## EXHIBIT

Blasters-1023

Page 1 UNITED STATES PATENT AND TRADEMARK OFFICE 1 BEFORE THE PATENT TRIAL AND APPEAL BOARD 2 CASE: IPR2018-00504 PATENT 7,255,116 3 4 5 BLASTERS, INC., 6 Petitioner 7 vs. 8 WATERBLASTING, LLC, 9 Patent Owner. 10 11 12 INTER PARTES REVIEW OF SCOTT F. BOOS 13 14 TAKEN BY: Attorney for Patent Owner 15 Thursday, October 11, 2018 DATE: 16 Commencing at 10:00 a.m., TIME: 17 To 6:38 p.m. 18 Veritext Legal Solutions PLACE: Tampa City Center 19 201 North Franklin Street Suite 1950 20 Tampa, Florida 33602 21 REPORTED BY: Dawn Neukomm, RPR Registered Professional Reporter 22 State of Florida at Large 23 24 25

## APPEARANCES:

1

-	
2	
	NICHOLAS R. PFEIFER, ESQ.
3	ANDRIY LYTVYN, ESQ.
	Smith & Hopen
4	Attorneys at Law
	180 Pine Avenue North
5	Oldsmar, Florida 34677
6	Attorney for Petitioner
	Blasters, Inc.
7	
8	
9	KENNETH W. COHEN, ESQ.
	EDWARD F. MCHALE, ESQ.
10	McHale & Slavin, P.A.
	Attorneys at Law
11	2855 PGA Boulevard
	Palm Beach Gardens, Florida 33401
12	
	Attorney for Patent Owner
13	Waterblasting, LLC
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

Page 3 1 EXAMINATION 2 Page 3 Cross-Examination by Mr. Cohen 4 Redirect Examination by Mr. Pfeifer 240 4 Certificate of Reporter Oath 249 5 6 Reporter's Inter Partes Review Certificate 250 7 8 Е ХН I S В Ι Т 9 Waterblasting Exhibit No. 2001 20 (Patent) 10 Blasters Exhibit No. 1001 62 11 (Patent) 12 Blasters Exhibit No. 1002 122 (Patent) 13 Blasters Exhibit No. 1003 126 14 (Patent) Blasters Exhibit No. 1004 15 170 (Patent) 16 Blasters Exhibit No. 1005 187 17 (Patent 18 Blasters Exhibit No. 1006 130 (Patent) 19 Blasters Exhibit No. 1007 225 20 (Patent) 21 Blasters Exhibit No. 1008 235 (Patent) 2.2 Blasters Exhibit No. 1009 6 23 (Declaration) 24 25

	Page 4
1	THEREUPON,
2	SCOTT F. BOOS,
3	was adduced as the deponent herein, and upon first
4	being duly sworn upon oath, was questioned and
5	testified as follows:
б	CROSS-EXAMINATION
7	BY MR. COHEN:
8	Q Good morning.
9	A Good morning.
10	Q We're here in the matter of Blasters, Inc.,
11	versus Waterblasting d/b/a Waterblasting Technologies
12	in an Inter Partes Review. You gave a depo recently in
13	that case, sir?
14	A I did.
15	Q And your name for the record?
16	A Scott Boos.
17	Q And in reading that in the caption here,
18	Blasters, Inc., that's your company?
19	A Yes.
20	Q You're the president of that company?
21	A I am.
22	Q You're the CEO?
23	A President and CEO.
24	Q And you make the principle decisions for your
25	company?

Page 5 I have a vice president and other people that 1 А are involved in the decisions. 2 3 Did you make the decision to institute this 0 IPR? 4 5 Yes, I did, but as I said, there were other Α 6 people that were involved in that, but yes. 7 MR. COHEN: I'm going to mark what's previously been marked as Blasters 1009 as an exhibit. 8 9 And I guess I'll mark that as Patent Owner's 1, so we can go PO-1, if that's okay. 10 11 MR. LYTVYN: Maybe we want to stick with the 12 exhibit numbers we already have, and this way it's 13 easier. 14 MR. COHEN: Is that easier? I'm just saying 15 because of the record --16 MR. LYTVYN: That's really the easiest way, 17 so this way we don't have to try to come up with different numbers with each other. 18 19 Okay. So let's mark this for MR. COHEN: 20 your purposes and just for record-keeping in this 21 deposition what's previously been marked as Blasters 2.2 1009. COURT REPORTER: 1009? Exhibit Number 1009? 23 24 MR. COHEN: Yes. Exhibit 1009, and it's Blasters Exhibit 1009. 25

Page 6 1 COURT REPORTER: Yes. Thank you. 2 MR. COHEN: I'm sorry, but I just want the record to be clear. 3 COURT REPORTER: That's fine. 4 5 (Blasters Exhibit No. 1009 was marked for identification.) 6 BY MR. COHEN: 7 Okay. I'm going to show you what's been 8 0 9 marked as Blasters Exhibit 1009. Do you recognize this 10 exhibit? 11 А T do. 12 If we flip to the second to the last page, 0 13 which is Page 114, the last heading, I believe it's an X, Roman Numeral 10, conclusion. Paragraph 203 states 14 15 that you understand that you're subject to cross-examination, if required. That's why we're here 16 17 today. 18 А Yes. 19 Is that still your understanding? 0 20 Yes. Α 21 And in paragraph 204, it says I hereby 0 2.2 declare that all statements made in this declaration 23 are of my own knowledge and are true, and that all 24 statements made on information and belief are believed 25 to be true; that these statements were made with the

knowledge that willfully false statements and the like 1 2 so made are punishable by fine or imprisonment or both under Section 1001 of Title 18 of the U.S. Code. And 3 then on the last page, Page 115, it's respectfully 4 5 submitted, Scott F. Boos. Is that your signature? 6 Α Yes. 7 And it's still your position today that 0 paragraph 204 remains true? 8 9 Α Yes. 10 So on Page 4 of your declaration, paragraph 0 11 2, it states that you understand that you're providing 12 my opinion on behalf of the Blasters, Inc., as a 13 technical expert for the above-captioned Inter Partes 14 Review. 15 Α Correct. 16 Is it fair to say that you are an independent 0 17 technical expert? I took the biasness out and just looked as a 18 Α 19 person of the skills in the art, and I, you know, just 20 was open-minded and unbiased as the expert witness 21 today. 2.2 0 So you removed the bias? I did. 23 А 24 Yet you have a financial interest in the 0 outcome of this case? 25

Page 7

Page 8 1 I don't think I do, no. А 2 0 Isn't it correct that there's a litigation 3 pending in the Southern District -- excuse me -- the Middle District of Florida --4 5 А There is. -- in which you're the defendant? 6 0 7 Α Yes. And in the course of that pending litigation, 8 0 9 this Inter Partes Review of the patent that's been 10 asserted against you was instituted; correct? 11 Correct. I quess it is. А 12 And you're the president and CEO of the party 0 13 that has instituted this Inter Partes Review; correct? 14 Correct. I'm the president of Blasters. Α 15 0 Okay. And so then you're not an independent 16 technical expert? 17 MR. LYTVYN: Object to the form. 18 THE WITNESS: I'm a person of ordinary skill in the art. I have, you know, years of experience, 19 20 and, you know, again I come unbiased. 21 BY MR. COHEN: 2.2 0 You would agree that if you hired an 23 independent expert, that they would truly be independent? 24 25 Objection to form. MR. PFEIFER:

Page 9 THE WITNESS: No, I wouldn't agree. 1 BY MR. COHEN: 2 3 You wouldn't agree that an expert in this 0 field hired just for their time would be an independent 4 5 technical expert? MR. PFEIFER: Objection; asked and answered. 6 7 THE WITNESS: I don't think they would be anymore independent than I am. 8 BY MR. COHEN: 9 10 As president of the company that is 0 11 instituting this Inter Partes Review, you're 12 maintaining that you just removed the bias? 13 MR. PFEIFER: Objection, testimonial. THE WITNESS: Yes. 14 15 BY MR. COHEN: 16 So you consider yourself a person of ordinary 0 17 skill in the art --18 А T do. 19 -- based on your experience in the 0 20 waterblasting industry? 21 Correct, in the field, yes. Α 2.2 And that began in the mid '80s, I believe, 0 1986; correct? 23 24 No, '82. А 25 '82. Okay. Did you write this document? Q

Page 10 I didn't physically write it, type it. 1 Α 2 0 Did you type this document? 3 I didn't physically type it. А So how did you prepare this document? 4 0 5 It was a collaborative effort between myself А and our attorneys. We worked together with the prior 6 7 art and wrote the document. So the technical information in this 8 0 9 document, was that entirely contributed by you or 10 someone else? It was both. It was a collaborative effort. 11 Δ 12 I came up with some of the prior art, and my attorneys 13 came up with some of the prior art. 14 So you're not the only technical expert that 0 15 contributed to your declarations; is that your 16 testimony? 17 MR. PFEIFER: Objection; form. 18 THE WITNESS: I signed that, but that's my 19 declaration. 20 BY MR. COHEN: 21 0 So every paragraph in here is material, 2.2 technical information, contributed by yourself? Again, it was a collaborative effort between 23 Α myself and our attorneys. 24 25 This is your expert declaration. If you had 0

Page 11 collaboration on it, why are you the only signatory on 1 2 your declaration? MR. PFEIFER: Objection; testimonial. 3 THE WITNESS: I believe that's the way it 4 5 I'm not an attorney, but to the best of my works. knowledge, that's the way it works. 6 BY MR. COHEN: 7 Well, what's your experience in compilating 8 0 9 technical papers to form an opinion? 10 Α I'm very experienced in different trade 11 I've been involved in, you know, different groups. 12 situations providing data, and I just am an expert in 13 the field. 14 Is this the first expert declaration you've 0 15 ever composed? 16 I've never been involved in an IPR. А 17 That wasn't my question. Is this the first Q 18 report you've ever generated as a technical expert? 19 Α In a lawsuit? It doesn't have to be a lawsuit. 20 0 21 No. I have provided other technical Α 2.2 documentation. 23 I'm sorry. You said no? 0 24 I said yes, I have provided other technical А 25 information.

Page 12 1 And did you prepare a report? Ο 2 Α I have. And again it was a collaboration in different situations, a collaboration of efforts. 3 In the past, has everyone who has 4 0 5 collaborated been reflected and given credit on the 6 document? 7 Α I was the only one that signed it. And why is that? 8 0 9 Α Because somebody had to step forward and 10 assert the document. 11 Are you familiar with --0 12 I mean if you're referring to a patent, I Α 13 mean people that were involved in patents would be, you 14 know -- you know, would be part of some -- you know, 15 part of a patent submittal. If they were part of it, 16 they were on the team of the people that signed it as 17 being part of the patent. But if you're referring to a technical submittal, I would have signed it myself 18 19 solely. 20 Even when you have collaborative engineers 0 21 and other experts? 2.2 Α I mean it would depend on the situation. 23 Okay. So I guess I'll ask you as we go along 0 24 which portions of the technical data in your declaration were not submitted by you just to be clear 25

Page 13 on the record here. 1 MR. PFEIFER: Objection; testimonial. 2 BY MR. COHEN: 3 So it's correct to say that you're an expert 4 0 5 in the field of waterblasting? 6 Α Yes. 7 And how would you categorize waterblasting? 0 MR. PFEIFER: Objection; form. 8 9 THE WITNESS: Restate the question. How 10 would I categorize waterblasting? What do you mean by 11 that? 12 BY MR. COHEN: 13 0 You're an expert. You're an expert in the machinery that you build and sell for waterblasting --14 15 MR. PFEIFER: Objection; form. 16 BY MR. COHEN: 17 Q -- applications? I'm an expert in the waterblasting field. 18 А 19 And is Waterblasting Technologies a 0 20 competitor? 21 А Yes. 2.2 Q A direct competitor? 23 А Yes. 24 And they're selling equipment in the 0 25 waterblasting field?

Page 14 In certain waterblasting fields. It's very 1 А 2 broad, and in one small part of the field, they sell 3 equipment. So are you an expert in the field of 4 0 5 waterblasting, if they sell equipment? 6 Α Yes. 7 And in your declaration, we'll get here to 0 Page 7, you list a number of patents. 8 9 Α Yes. 10 And one of them, for example, labeled letter 0 11 F is U.S. Patent No. 8,510,905 --12 Α Yes. 13 0 -- entitled vacuum debris collection box 14 having sloped debris chute. So that's one of your 15 patents? 16 Correct. Α 17 And that's in what you would consider the Q 18 waterblasting field? 19 Α It can be used for all types of No. 20 different applications, one of which -- it's not 21 limited to just waterblasting. It could be used in 2.2 other areas as well, in other applications. 23 But it is an application -- one of the 0 disclosures in that is an example of why you would be 24 an expert in waterblasting technology? 25

Page 15 1 MR. PFEIFER: Objection; form. 2 THE WITNESS: I don't understand. Restate the question in a different way, please. 3 BY MR. COHEN: 4 5 On Page 7 of your declaration, you list A 0 6 through F, patents that you're an inventor on? 7 Α Correct. That established your background as an expert 8 0 9 in waterblasting technologies? That's not the only thing that establishes 10 Α 11 it, but it is just one of the things, yes. 12 But those patents are one of the examples, 0 13 and then some of your other examples are just your 14 experience in the field? 15 MR. PFEIFER: Objection; form. 16 That's a pretty broad-based THE WITNESS: 17 question that you're asking me. I mean I have provided 18 the documentation of why I'm an expert in the field and 19 a person of ordinary skill, and that's it. 20 BY MR. COHEN: 21 Okay. Well, I'm trying to understand. 0 You know, I'm asking about your qualifications as a 2.2 23 technical expert. You dispute that you're an 24 independent technical expert. You've testified already that you're not the only person who contributed to your 25

expert declaration here. And I'm trying to understand, 1 2 well, which portions of your declaration directly establishes your qualifications, and which portions of 3 your declaration are deficient in the fact that you 4 5 needed help to complete your declaration. 6 MR. PFEIFER: Objection. Is there a 7 question? MR. COHEN: Yes. 8

10 Q Which technical aspects of your declaration 11 were contributed by someone and not you?

12 A It's a collaborative effort. I mean I put 13 the document together. I collaborated with our 14 attorneys, the two which are present, and we presented 15 the declaration which I signed.

16 Q So I'm not asking did your attorneys edit 17 this document. I'm asking what technical information 18 was contributed by someone other than yourself?

MR. PFEIFER: Object; form.

THE WITNESS: The only people that were involved in that other than myself are the two attorneys that are present.

23 BY MR. COHEN:

9

19

BY MR. COHEN:

24 Q So it's a correct statement that you did not 25 contribute every bit of technical opinion in this

Page 16

Page 17

declaration? 1 2 А It was a collaborative effort. You know, 3 they contributed, and I contributed. MR. COHEN: What was my last question? 4 5 (Previous question read back by court reporter.) MR. COHEN: I'll re-ask the question. 6 7 BY MR. COHEN: So I'm just establishing a yes or no. Did 8 0 9 you contribute every bit of technical information in 10 your declaration? 11 MR. PFEIFER: Objection; form. 12 THE WITNESS: It was a collaborative effort. 13 It was a joint effort between myself and our 14 attorneys. BY MR. COHEN: 15 16 0 So that's a yes? 17 MR. PFEIFER: Objection. THE WITNESS: It's a collaborative effort. 18 19 BY MR. COHEN: 20 I understood your testimony that it's a 0 21 collaborative effort. So just so the record is clear, 2.2 what you're saying is, it's correct that you did not 23 contribute every single technical aspect that's in your expert declaration? 24 25 Objection; form. MR. PFEIFER:

Page 18 1 THE WITNESS: I'll answer the question again, 2 and I'm going to keep answering it the same way. It was a collaborative effort. 3 BY MR. COHEN: 4 5 So then the answer is yes, it would be a fair 0 answer to that question? 6 7 MR. PFEIFER: Objection; form. THE WITNESS: The answer is it's a 8 9 collaborative effort. 10 BY MR. COHEN: 11 So on Page 9, paragraph 5, relevant legal Ο 12 standards? 13 Α Yes. 14 I'm not asking you to reveal any privileged 0 15 conversations with your attorneys. My question is what 16 is your understanding of the legal standards applicable 17 in generating this expert report? 18 Α Well, I'll start by saying I'm not an 19 attorney, so that's why I hired these quys to, you 20 know, represent me. But basically all I did was look 21 at the claims in the patent, compare the claims to 2.2 prior art, you know, and then it was at that point, you 23 know, it was about obviousness. You know, I just 24 looked at comparing those prior art versus the claims and, you know, the obviousness of what makes sense. 25

Page 19 1 And it was an arrangement of different components, common components, commonly-known components to yield 2 3 part of the declaration. And you put forward a number of claim terms 4 0 5 that required construction in your opinion? 6 Α Yes. 7 And on Page 10, for example, Number 15, hard 0 8 surface --9 А Yes. 10 -- did you make the determination to construe 0 11 that claim? 12 А Did I make the determination? I mean I would 13 define a hard surface as basically any surface capable of supporting a vehicle or a tractor with a head for 14 this purpose. There's a lot of hard surfaces. 15 16 So as a technical expert in the field of 0 17 waterblasting, what specifically would you categorize 18 your expertise as? 19 MR. PFEIFER: Objection. 20 THE WITNESS: Would you restate the 21 question? 2.2 BY MR. COHEN: 23 You reviewed Patent Number 7255116, the 0 patent that's in issue in this Inter Partes Review; is 24 that correct? 25

1	A I did.
2	Q And you determined that that's a vehicle
3	that's for operation in the waterblasting industry?
4	A I reviewed it as a machine for cleaning. A
5	cleaning machine is the way I reviewed it. I reviewed
6	Claims 1 through 6 and 10 specifically.
7	Q Okay. And in the waterblasting industry,
8	what is a hard surface?
9	A A hard surface by my definition is basically
10	any surface that would support, you know, a truck, a
11	support truck or a utility vehicle like a tractor with
12	a head on it would be the way I would describe or
13	define a hard surface. There's lots of hard surfaces.
14	MR. COHEN: Why don't you mark this one as
15	Waterblasting 2001.
16	(Waterblasting Exhibit No. 2001 was so marked
17	for identification.)
18	BY MR. COHEN:
19	Q I'm going to show you what has been marked as
20	Waterblasting 2001.
21	MR. PFEIFER: We'd like to make an objection
22	that this piece of evidence has not previously been
23	considered in this analysis.
24	MR. COHEN: Excuse me?
25	MR. PFEIFER: We would like to make an

objection that this patent was not previously analyzed 1 2 when he made this opinion. 3 MR. COHEN: This is his patent. MR. PFEIFER: Correct, but it was not 4 5 considered during the opinion. We're just objecting for the record. It's outside of the scope of the 6 7 opinion that was rendered in this declaration. BY MR. COHEN: 8 9 Ο All right. And just for the record, on Page 10 7, and I believe I read it into the record earlier, one 11 of your list of qualifications that you submitted makes 12 you an expert in this field is Patent Number 8510905; 13 is that correct? 14 That's what it says on Page 7. Α 15 0 Is that incorrect? 16 It's correct that that's our patent, and it's А 17 correct that it's letter F on Page 7, correct. 18 Q Okay. So looking at the first page, the 19 named inventor is Scott F. Boos. That's you; correct? 20 А Correct. 21 And then there's Ian Ellman Brown, a 0 2.2 co-inventor? 23 Α Correct. 24 0 If you could turn to the Page F of your drawings, and it's labeled column 1. 25

Page 21

Page 22 1 This page? Α 2 0 Yes. 3 Α Okay. So in column 1 coming down at line 35 on the 4 0 5 left, it says summary in the invention. Where is that, line 35? 6 Α 7 Right. It's where is says summary of the 0 invention in the left column. 8 9 Α Yeah. Okay. I see it. Yeah. Okay. 10 And in coming down, so it would be -- there's 0 11 a sentence, the longstanding, but heretofore 12 unfulfilled need for an improved vacuum box is now met 13 by a new, useful, and non-obvious invention. Objection; form. 14 MR. PFEIFER: 15 THE WITNESS: Show me where you are, please 16 aqain. 17 BY MR. COHEN: 18 0 I'm right here. 19 Okay. On the top, just at the very top. Α 20 And the next paragraph says the inventive Q 21 structure is used with a tractor of the type used to 2.2 remove pavement markings or coatings from asphalt or concrete roads, parking lots and the like by blasting 23 24 the asphalt or concrete with water under high pressure. 25 The technology is also used in removing pavement

Page 23 markings or coatings and built up runway rubber from 1 2 airport runways and taxiways as indicated at airport technology dot com. 3 So is it fair to say that that's 4 5 representative of the waterblasting applications for this invention? 6 7 MR. PFEIFER: Objection; scope; objection to form as well. 8 9 THE WITNESS: State the question again, 10 please? 11 BY MR. COHEN: 12 0 Sure. I'm going to ask the question 13 differently. But I want to note for the record 14 MR. COHEN: 15 that this is a cross-examination. Mr. Boos has 16 established himself as an expert in his technical 17 field, and I'm attempting to impeach him on it. These 18 are improper objections in the scope of what the line 19 of questioning I'm in? 20 MR. PFEIFER: We're going to respectfully 21 disagree. 2.2 BY MR. COHEN: 23 That paragraph, Mr. Boos, is that the 0 applications, exemplary of the applications in the 24 25 waterblasting industry?

1MR. PFEIFER: Objection to form; objection to2scope.

No, it's not. The invention 3 THE WITNESS: structure is usually the tractor of the type used to 4 5 remove pavement markings or coatings. So when you look at that, basically it's not limited to just pavement 6 7 markings. It's limited to coatings as well, which is, you know, any substance or foreign debris spread over a 8 9 surface. So it can be all types of different coatings 10 to be removed. So it's not just for waterblasting. Ιt 11 could be used for cleaning. It could be used for all 12 types of surfaces, again, you know, surfaces or layers 13 over a surface.

14 BY MR. COHEN:

Q So what you're referring to in your pavement markings or coatings from asphalt or concrete, what kind of pressures do you need to remove those coatings MR. PFEIFER objection; scope.

19 THE WITNESS: It depends on the application.
20 There's different pressures for different
21 applications. And you simply can throttle the engine
22 up or throttle the engine down on the waterblaster to
23 determine that pressure.

24 BY MR. COHEN:

25 Q So specifically what's an example of a

pressure you would need to employ to remove pavement markings?

A There's lots of different types of pavement markings and all types of different composites that would be, you know, highway or airport stripes. There are all types of different ones that are out there. So it takes different pressures to remove different types of pavement markings.

9 Q So, for example, are you familiar with what a 10 pavement marking would be on like the street in front 11 of this building?

A Yes, and again there's all -- there's, you know, various different types of coatings that are on -- even in downtown Tampa, there's various different types of pavement marking compositions and coatings that are put down right here in this downtown area.

17 Q So you're an expert in constructing a vehicle 18 that would be capable of removing one of these coatings 19 that you referred to? Yes?

A Yes.

20

21 Q And if the City of Tampa was going to 22 contract with you to build some trucks to remove 23 pavement markings or coatings from the street, what 24 pressure ranges would you give as an example would be 25 the range that you would need to remove those sort of 1 markings?

2	MR. PFEIFER: Objection; form.
3	THE WITNESS: I mean typical well, for
4	coating removal, it can be so, you know, if I was
5	building a machine, a coating removal machine like this
6	machine, you know, it'd be run anywhere from high
7	pressure of, you know, a couple hundred psi to ultra
8	high pressure at 40,000 psi. So I would build a
9	machine that you can throttle up or throttle down to
10	do as a cleaning machine to remove coatings, I would
11	have to have a machine that could do all the
12	applications.
13	BY MR. COHEN:
14	Q So you're saying you would build a machine
15	that could throttle from 200 pounds per square inch all
16	the way up to 40,000 pounds per square inch?
17	A Potentially, yes.
18	Q Have you ever built that machine?
19	A Yes.
20	Q You have?
21	A Yes. It could run an 200 psi or it could be
22	run at 40,000 psi just by throttling up and throttling
23	down, correct.
24	Q So in your field, what would one of ordinary
25	

Page 27 1 What they refer to as a pavement marking is А 2 basically a stripe on the road that keeps the traffic, you know, in line, so they don't hit each other. 3 I realize these lines can be comprised of 4 0 5 anything from simple paint to complex polymers that adhere to the asphalt; is that correct? 6 7 Α Yes. So if you're talking about a polymer that 8 0 9 adheres to the asphalt, what sort of pressures are we 10 talking about to remove that? 11 MR. PFEIFER: Objection; form. 12 I don't know. I mean polymer THE WITNESS: 13 is a broad term. I mean I'm not trying to be 14 difficult, but I don't know what you mean by that. 15 There is no polymer that's a stripe. 16 BY MR. COHEN: 17 You've submitted a declaration under oath to 0 18 the patent that you're a technical expert in this field 19 of technology? 20 А Yes. 21 Ο I'm asking you technical questions. You're 2.2 the one being difficult with all due respect. 23 MR. PFEIFER: Objection; testimonial. BY MR. COHEN: 24 As a technical expert, what would you expect 25 0

Page 28 the average -- and strike average. What do you 1 2 encounter that are road markings that require removal? 3 MR. PFEIFER: Objection; form. BY MR. COHEN: 4 5 What are they composed of? 0 What are the different types of stripes that 6 Α 7 are out there, the pavement markings that are out there? 8 9 0 Yes. 10 Anything from, you know, a very non-robust Α 11 coating as a temporary paint that's on a highway. Ιt 12 could be as hard as a thermal plastic or an epoxy or a 13 methacolade, a very hard coating. So there's various 14 different markings that are out there. 15 0 It's true to say that you understand that you 16 applied the broadest reasonable interpretation is how 17 you analyzed the patent? 18 А That's correct. 19 Okay. In this field that you're a technical 0 20 expert, when someone refers to a hard surface, what are 21 they referring to? 2.2 Α They're referring to a surface that will 23 support any vehicle, a truck or a tractor, you know, with a head on it. If you're talking about this field, 24 that's what a hard surface is. 25

Page 29 So your testimony is that when you're talking 1 0 to another individual in this field, the hard surfaces 2 3 you're talking about are roads, highways, parking garages, runways; is that correct? 4 5 MR. PFEIFER: Objection; asked and answered. 6 THE WITNESS: Potentially, yeah. BY MR. COHEN: 7 So in your field when you talk about coatings 8 0 9 on a hard surface, what would somebody in the 10 waterblasting field consider that to be? 11 You know, I mean in our field, I mean there's Α 12 all types of cleaning. I mean people are out on 13 runways cleaning mildew and dirt and grime and oils off of runways, so that's cleaning. Yes, that's cleaning a 14 coating off of a hard surface. And again it could be 15 16 all the way up to the hardness of a coating of epoxy 17 that's on a highway. So it's a big cross-reference or 18 a cross-section, I should say, of different coatings on 19 a surface. 20 In your declaration, you've elected to group 0 21 these terms separately and not in the context which 2.2 they appear in the claims, the coatings upon a hard surface. 23 24 Objection; testimonial. MR. PFEIFER: 25 THE WITNESS: What page are you on?

Page 30

1 BY MR. COHEN:

2	Q Well, your proposed definitions start on Page
3	10. So it's true that you split these apart, and you
4	did not consider them in the context that they appear
5	but as individual terms?
6	MR. PFEIFER: Objection.
7	THE WITNESS: There wasn't any strategy in
8	that. It was my opinion and my definition on each one
9	of the each one of the items.
10	BY MR. COHEN:
11	Q Okay. So paragraph 15 where we're talking
12	about hard surface, it's your opinion that a person of
13	ordinary skill in the art would have understood the
14	term hard surface to mean any surface having rigidity
15	sufficient to support the weight of a vehicle carry the
16	blast head?
17	MR. PFEIFER: Objection; form.
18	THE WITNESS: Absolutely, yes.
19	BY MR. COHEN:
20	Q And paragraph 16, did you contribute all of
21	the technical aspects of that paragraph yourself, or is
22	there any aspects of that that are not contributed by
23	you exclusively?
24	A It was a collaborative effort with our
25	attorneys.

Page 31 So you did not contribute the subject matter 1 0 2 in its entirety yourself? 3 MR. PFEIFER: Objection; form. THE WITNESS: 4 I repeat. It was a 5 collaborative effort with our attorneys. BY MR. COHEN: 6 7 And I'll repeat. I'm asking you yes or no 0 questions. Paragraph 16, yes or no, did you contribute 8 9 the entirety of the technical information yourself? 10 MR. PFEIFER: Objection; form. 11 THE WITNESS: I didn't write -- I didn't 12 write the document completely myself. I didn't type it 13 myself, if that's what you're asking? BY MR. COHEN: 14 15 0 That's not what I'm asking. I'm asking is 16 the entirety of paragraph 16, the technical 17 information, was all of it contributed by yourself exclusively, or did somebody else contribute to the 18 19 technical information in paragraph 16? And it's a yes 20 or no question. 21 MR. PFEIFER: Objection; form. 2.2 THE WITNESS: My attorneys contributed, so 23 yes, my attorneys contributed. 24 BY MR. COHEN: To technical aspects of that declaration? 25 0

Page 32 1 MR. PFEIFER: Objection. THE WITNESS: No, that was my -- I'm the 2 3 technical person. BY MR. COHEN: 4 5 So what technical aspects of paragraph 16 0 were not contributed by yourself? 6 7 MR. PFEIFER: Objection, form. THE WITNESS: They weren't. They were mine. 8 9 BY MR. COHEN: 10 So in column 1, the paragraph, the inventive 0 11 structure that we've talked about previously --12 MR. MCHALE: What exhibit? 13 MR. COHEN: This is Waterblasting 2001. BY MR. COHEN: 14 15 0 -- is your patent. You're one of the 16 co-inventors. And I'm in column 1. 17 Α Okay. 18 And again that paragraph, if one of ordinary Q 19 skill in the art was reading this paragraph, is it fair 20 to say that concrete roads, parking lots and the like 21 are hard surfaces? 2.2 MR. PFEIFER: Objection; form; objection; 23 scope. 24 THE WITNESS: Yeah, they could be considered 25 hard surfaces, yes. There's lots of hard surfaces,

but, yes, they could be considered hard surfaces.
 BY MR. COHEN:

Q And we're talking about here in this descriptive of this area of technology, you're talking blasting asphalt or concrete with water under high pressure?

MR. PFEIFER: Objection; form.

8 THE WITNESS: Well, again we're talking about 9 -- we're talking about cleaning, and we're talking 10 about coatings. So it's not just limited to what's 11 written here. It wasn't the intent.

12 BY MR. COHEN:

7

13 0 I'm not asking you about the scope of your 14 patent. I'm just asking you about one of ordinary 15 skill in the art in this art area, you've submitted 16 that you're a technical expert in this area. So would 17 somebody of ordinary skill in the art consider asphalt 18 and concrete that these pavement markings or coatings 19 are on to be hard surfaces? 20 MR. PFEIFER: Objection; form.

THE WITNESS: It wouldn't be limited to those, but I think somebody could say, yes, those are hard surfaces, but it wouldn't be limited to that. BY MR. COHEN:

25 Q I didn't ask about limitations of it, but is

Page 34 that what somebody ordinarily would talk about in this 1 field --2 3 MR. PFEIFER: Objection. BY MR. COHEN: 4 5 -- when they say the hard surfaces you're 0 talking about are roads and airport runways --6 7 MR. PFEIFER: Objection; form. BY MR. COHEN: 8 9 Q -- create asphalt structures; is that 10 correct? 11 It could be some of the surfaces they talk Α 12 about, yes. 13 0 Well, I'm asking you as a technical expert. I mean technically speaking, is that the way people of 14 skill in the art in this industry refer to the surfaces 15 16 that need to be cleaned? 17 MR. PFEIFER: Objection; form; objection; asked and answered. 18 19 THE WITNESS: And I answer it as it's some of 20 the surfaces that could be used, yes. 21 BY MR. COHEN: What kind of pressures would you need to 2.2 0 remove, for example, runways rubber? 23 24 Well, there's all different thicknesses of А runway rubber. You know, it's a very -- it's a very 25

soft rubber. And I guess I'd have to look at the 1 2 specific application. You know, it's just various 3 pressures for different applications. For rubber, it depends on how thick it is. 4 5 Well, I mean can you give me some examples? 0 MR. PFEIFER: Objection; form. 6 7 (Phone interruption in conference room.) THE WITNESS: I mean it's part of the prior 8 9 art that I analyzed. You know, NLB uses up to 40,000 10 psi, but it's a range. It can be throttled down or 11 throttled up, but the maximum would be up to 40,000 12 psi. 13 BY MR. COHEN: 14 Well, let's talk about throttling up and down 0 15 of the pumps. What are you referring to? 16 MR. PFEIFER: Objection; form. 17 THE WITNESS: I'm just referring to, you 18 know, the higher the engine goes, the more pressure you 19 The lower the engine goes, the less pressure create. 20 you create. 21 BY MR. COHEN: 2.2 0 Okay. 23 So to remove various coatings that are out Α there, different coatings take different pressures to 24 remove the coatings. So you wouldn't want to run too 25

Page 35
high of a pressure for a certain application. 1 2 0 So a pump that pumps at 40,000 psi, what are the characteristics of that sort of pump to achieve 3 that --4 5 Objection; form. MR. PFEIFER: BY MR. COHEN: 6 7 0 -- pressure? I mean it's a plunger pump. I'm not sure --8 Α 9 I mean typically the main characteristic is it's a 10 positive displacement reciprocating plunger pump. But 11 other high pressure pumps that may be lower in pressure 12 but still high pressure are the same, are positive 13 displacement reciprocating plunger pumps as well. 14 So pumps capable of pumping in excess of 0 15 40,000 psi, you're saying have the same characteristics 16 as pumps that pump at lower pressures? 17 MR. PFEIFER: Objection; form. 18 THE WITNESS: Well, if we're talking about 19 pumps in excess of 40,000 psi or at 40,000 psi? 20 BY MR. COHEN: 21 0 Let's say at 40,000 psi. 2.2 Α Yeah, the characteristics are the same. 23 Okay. 0 24 Α They're positive displacement pumps. They reciprocate which means they move back and forth, and 25

Page 36

Page 37 they're plungers. They're plunger driven. All of them 1 2 have a plunger that pushes the water to create the 3 pressure as they reciprocate back and forth. And you're saying that you are familiar with 4 0 5 operating pumps at 40,000 psi? 6 Α Yes. 7 And you've throttled them down to what 0 8 pressures? 9 Α Well, you know, virtually down to zero. Ι 10 mean it can go -- you can throttle them up or throttle 11 them down depending on the application. 12 So a pump that pumps 40,000 psi, what do you 0 13 mean by throttling it down? 14 Α Just basically use the engine control box and 15 lower the rpm of the engine which in turn will drop 16 your pressure. 17 And does the flow out your nozzles remain the 0 18 same? 19 MR. PFEIFER: Objection; form. 20 THE WITNESS: You could use to run a -- to 21 keep the flow or gallons per minute the same, then you 2.2 could also use larger nozzles or more nozzles depending 23 on how you do it to basically drop your pressure as 24 So I mean technically you can throttle the well. 25 engine higher or lower to create your pressure. You

Veritext Legal Solutions

can use different jets, bigger jets or more jets. You can also use what's called a flow control bypass valve to dump water, gallons per minute, as you flow as you're referring to. So there's a multitude of different ways to do it, but you'd want to use different pressures for different applications.

Q Okay. Can you give an example of a specificcoating that you would need 40,000 psi to remove?

10 Α Most of the time 40,000 psi isn't run. Ι 11 mean that would be an absolute extreme situation. 12 Typically, you know, it's done at a lesser pressure. 13 But if you were to run 40,000 psi, maybe you're taking 14 off an epoxy or a thermal plastic stripe on a highway. 15 That specific stripe would require 40,000 -- not 16 necessarily up that high, but it could require 40,000 17 And I think that's what -- you know, again back psi. 18 to the prior art, you know, that's what NLB also says 19 that is required, and they said 40,000 -- up to 40,000 20 psi. All pumps are up to a maximum pressure.

Q For removing pavement markings from parking lots and the like and/or runway rubber from airports, typically what size pumps do you build at your company? MR. PFEIFER: Objection; form. THE WITNESS: State the question again, if 1 you would, please?

2 BY MR. COHEN:

3 I'm referring to you using your patent as an 0 example of one application of removing pavement 4 5 markings or coatings of runway rubber from airports, and we're talking about applications with asphalt or 6 concrete. At your company that you're the president, 7 the machines that you build to perform these functions, 8 9 typically what pressures do they operate under? 10 MR. PFEIFER: Objection; form. 11 THE WITNESS: Well, first of all again, it's 12 not just limited to these coatings that are here. Ι 13 mean there's lots of different coatings that are on 14 surfaces, but if you're referring -- let me see that. 15 If you're saying if I was to remove paint, rubber, 16 thermal plastic tape and curing compounds and other 17 debris, so if I look at debris, debris can be, you 18 know, a big application as dirt and grime and oil, you 19 know, very low pressure, less than 1,000 psi and 20 potentially up as high as 40,000 psi. So again cross-section of pressures for various applications. 21 2.2 BY MR. COHEN: 23 So typically what would you or a competitor 0 for removing runway rubber, what would the 24

25 specification of a pump to remove runway rubber from

Page 40 the airport runways be? 1 MR. PFEIFER: Objection; form. 2 BY MR. COHEN: 3 Be it you or someone else with ordinary skill 4 0 5 in this art area, what typically would the pump specifications be? 6 7 Α For removing rubber? 8 0 Yes. 9 Α The specs that I have seen to the best of my 10 recollection are based on how many square feet an hour 11 you're supposed to remove. You know, there's a minimum 12 out there on the runway. 13 0 Okay. I mean I think, you know, as we would or 14 Α 15 maybe as NLB would, you know, it could be -- it could 16 be 20,000 psi --17 0 Well, I mean ---- or it could be higher. It could be less. 18 А It could be more. 19 20 Well, I mean you're the technical expert in 0 21 this field; correct? 2.2 А Yes. 23 Are you still maintaining that? 0 24 Α Yes. 25 So I'm asking you a technical question. Q

We're reading your patent. Give me an example of
 machines that you've built and what the specifications
 are for being able to take runway rubber off of airport
 runways.

5

MR. PFEIFER: Objection; form.

6 THE WITNESS: This patent, you know, 905, is 7 not only limited to just say rubber removal. You know, it does a lot of different things. We have people 8 9 doing all different types of cleanings at different 10 pressures. I'm not sure how to answer it anymore. 11 This particular patent that you're referring to here, 12 the 905 patent, that slope for debris collection box is 13 used for various types of applications, but not limited 14 to these and including many others that are out there, 15 many other coatings that are spread over a surface.

16 MR. PFEIFER: We've been going for about an 17 hour. Can we take a break when you get to your next 18 stopping point?

19MR. COHEN: We can take a break here, if you20want.

21 MR. PFEIFER: Okay.

22 (Brief recess was taken at 11:00 a.m., to 23 return at 11:15 a.m.)

24 BY MR. COHEN:

25 Q Referring back to Exhibit Waterblasting 2001,

which is your patent, in the description in column 1, 1 2 if you would go to the top of column 1, numbered paragraph 2, the description of the prior art. 3 Yes, I see it. 4 Α 5 And would it be fair to say that in a patent, 0 the description of prior art is used to describe what 6 7 exists in the field of technology, and that your patent is an improvement in that field? 8 9 MR. PFEIFER: Objection; form. 10 THE WITNESS: This particular patent was all 11 about the floor being sloped and letting whatever 12 solids or whatever coatings we're removing drop out of 13 suspension because they're all heavier than water 14 specific gravity-wise. So it was better for any 15 application, any type of cleaning application. 16 BY MR. COHEN: 17 So this is an improvement patent of what's 0 out there for vacuum debris collection boxes? 18 19 We think so. Α 20 And under that number 2 description of prior 0 21 art, it says vacuum boxes are used to collect water, 2.2 pulverized asphalt, paint, rubber, thermal plastic tape and curing compounds and other debris created when high 23 24 pressure water is discharged by a nozzle bar mounted on 25 the tractor to remove pavement markings or coatings

Page 43 from roads, airport runways, taxis, parking lots and 1 2 the like. What are the coatings referred to there? 3 MR. PFEIFER: Objection; form. I mean just as it says. 4 THE WITNESS: Ιt 5 just says, you know, pulverized asphalt, paint, rubber, thermal plastic tape and curing compounds. 6 BY MR. COHEN: 7 The 116 patent discloses a cleaning system 8 0 9 for removing coatings from a hard surface by high 10 pressure liquid. Do you agree with that? I'll refer 11 you to your declaration on Page 15 --12 Page 15. Okay. Α 13 0 -- where you state that. 14 Just reading from the top here? Α 15 0 Yeah. 16 The 116 patent discloses a cleaning for А 17 removing coatings from a hard surface by high pressure Okay. I've read it, and what's the question? 18 liquid. 19 Well, I didn't ask you a question yet. Is 0 20 that still correct, that that's your understanding of 21 the patent claimed here? 2.2 Α That's what it says, yes. 23 And did you write this portion of your 0 declaration? 24 25 А Yes.

The description of the prior art in your 1 0 2 patent, is that referring to the same area of technology that the 116 patent is concerned with? 3 MR. PFEIFER: Objection; form. 4 5 THE WITNESS: It's one of the many applications. It's not limited to that, but it could 6 7 be used for that. BY MR. COHEN: 8 9 0 So if one of ordinary skill in the art 10 according to your opinion is reading the description of 11 the prior art in your patent, what would they consider 12 roads, airport runways, taxis, parking lots and the 13 like? Would those be considered hard surfaces to 14 somebody of ordinary skill in the art? 15 MR. PFEIFER: Objection; form. 16 THE WITNESS: It's one of many hard 17 surfaces. Yes, it could be considered a hard surface. 18 BY MR. COHEN: 19 Now does one of ordinary skill in the art in 0 20 your field usually refer to coatings, markings, airport 21 rubber in conjunction with the surfaces that those 2.2 coatings are applied? 23 MR. PFEIFER: Objection; form. 24 THE WITNESS: Restate the question, if you would, please. 25

Page 44

Page 45

1 BY MR. COHEN:

2	Q One of the claim terms you opined on is hard
3	surface. I'm asking you when one of ordinary skill in
4	the art in the field that you're a technical expert
5	reads this paragraph, would they consider roads,
6	airport runways, taxis, parking lots and the like hard
7	surfaces?
8	MR. PFEIFER: Objection; form.
9	BY MR. COHEN:
10	Q Yes or no?
11	A Those would be considered hard surfaces, but
12	again there's other hard surfaces beyond those. It's
13	not limited to just those, but, yes, those could be
14	considered hard surfaces.
15	Q And does a person of ordinary skill in the
16	art in this area ordinarily associate when discussing
17	the coatings that need to be removed, are they
18	referring to these sort of roads, airport runways and
19	those hard surfaces when they discuss where coatings or
20	airport rubber removal applications occur?
21	MR. PFEIFER: Objection; form.
22	THE WITNESS: Not limited to those, but, yes,
23	those could be some of the coatings that could be used
24	on hard surfaces. Those could be some of the hard
25	surfaces. That could be some of them, but not limited

Page 46 to those, but it could be construed as coatings and 1 2 hard surfaces. BY MR. COHEN: 3 So when you're collecting pulverized asphalt, 4 0 5 how would you pulverize the asphalt? When does that 6 occur in operation? 7 MR. PFEIFER: Objection, form. THE WITNESS: When do you pulverize it? 8 9 BY MR. COHEN: 10 Well, let me ask it this way. So the vacuum 0 11 tank disclosed in your patent application --12 Α Yes. 13 -- works in conjunction with other systems; 0 14 correct, or it's part of a complete system? 15 Α Correct. 16 So if you're vacuuming up pulverized asphalt, 0 17 what pump pressure are pulverizing asphalt? I mean, this could be used for 18 А waterblasting. You know, this could also be -- this 19 20 system could also be used for dry, so you could use 21 grinding and milling to also pulverize asphalt. I 2.2 think this is referring to pulverized asphalt is when you're doing stripe removal specifically. The asphalt 23 actually could come apart and basically be vacuumed up 24 into the vacuum debris box. So I think it's referring 25

Veritext Legal Solutions

to -- you know, you wouldn't have a project that you 1 2 would go out and pulverize asphalt. It's just part of 3 specifically just the stripe removal. So you would just be doing stripe removal only. You wouldn't use 4 5 high pressure water to pulverize asphalt. If like you'd see pulverized asphalt, that would be a big 6 7 milling operation on a highway. They would use conventional, traditional milling and grinding 8 9 techniques to pulverize asphalt. The intent of that 10 was basically that when you're removing stripes, that 11 the asphalt could come loose and would be vacuumed up. 12 So asphalt can come loose when high pressure 0 13 water is applied? 14 It could, yes. Α 15 0 And how does that happen? 16 You use high pressure water. Α 17 Well, what pressures? What pressures are Q 18 going to remove coatings and pulverize the asphalt that 19 the coating is stuck to?

A Well, coatings again can be an array of different surfaces. So if you were using -- you know, removing coatings, it could be extremely low pressure, you know, a couple hundred psi if you're talking about a thermal plastic or an epoxy stripe. You know, when you reference the prior art again of NLB, you know, it

Page 47

could be used up to 40,000 psi. 1 2 0 So in this sentence here, I'm asking you as a 3 technical expert. Which sentence, the vacuum box? 4 Α 5 The vacuum box is one long sentence. 0 6 Α Okay. 7 It's talking about other debris created when 0 high pressure water is discharged. 8 9 А So you're asking about that whole paragraph 10 now? 11 What sort of surface are we talking about 0 12 where -- or the surface we're talking about here is 13 pulverized asphalt with a coating on it. What sort of --14 15 А Not pulverized asphalt, just asphalt with a 16 surface with a coating on it. It's just a sound 17 substrate which is the asphalt with the stripe on the 18 top of it. 19 Okay. With a stripe adhered to the asphalt. 0 20 This substrate you're talking, does that over time with 21 heat and pressures become chemically bonded to the 2.2 asphalt does that occur? 23 А The asphalt typically stays intact, you know, so you're not -- again, the intent of this is the 24 asphalt that's referred to here that's pulverized is 25

from the stripe removal application. So that's why 1 it's pulverized, and then it's being vacuumed up.

3 So what is an example of a pressure range 0 that you're going to remove a substrate that is bonded 4 5 to the asphalt that's going to result in pulverized asphalt needing to be vacuumed up? 6

7 Yeah. You're never removing the asphalt. Α That's not the intent. The intent is to take the 8 9 stripe off the asphalt without damaging the asphalt. 10 So it's the opposite. It's taking the stripe off the 11 asphalt underneath it. So you never would use -- it's 12 the opposite of what you said.

13 0 So in stripe removal from roads, the concrete 14 or asphalt never gets removed in the process even at a minuscule layer or level? 15

16 Yeah. Step one is to remove the stripe. А Ιf 17 any of the -- I mean concrete typically stays intact. That's why it doesn't say pulverized concrete. At 18 19 times if asphalt is haggard and worn out, you know, 20 over time, potentially it could pulverize the surface 21 underneath where the stripe is when the removal process 2.2 goes over it.

23 And would you agree that one type of road 0 striping would be some sort of composite substrate 24 polymer? 25

2

Page 49

1 A The substrate is, you know, the surface that 2 the stripe is applied to.

Q Okay. And in this paragraph, in your technical opinion, what pressures would it be operating at that are capable of removing pavement coatings or markings from the road, airport runways, taxiways, parking lots and the like that may pulverize asphalt in the process?

MR. PFEIFER: Objection; form.

10 THE WITNESS: So as I read that, you know, 11 collects water, pulverize asphalt, paint, rubber, 12 thermal plastic tape, curing compounds and other 13 debris. I mean if you're doing a very hard type of 14 coating, which could be a stripe, you could use up to 15 40,000 psi. You know, softer, you know, all the way 16 down to dirt and grime would be a much lower pressure. 17 So it's up to 40,000 psi, and it's down extremely low. BY MR. COHEN: 18

19 Q What's the minimum pressure that you could 20 pulverize asphalt with?

A Pulverized asphalt is not an application that anyone would do in high pressure water. That would all be done with convention, mechanical grinding and milling equipment.

25

9

Q Is it sometimes necessary to remove a layer

1 of asphalt or concrete to get whatever is stuck to it 2 off in a cleaning application?

A Within high pressure water, you're not supposed to do that. You're supposed to stop. If you're eating into the substrate, the application is supposed to stop. The operation is supposed to stop.

Q But at what pressure would you eat into theasphalt or concrete?

A It depends on how bad it is.

10 Q Well, I mean I'm asking you for some 11 technical examples.

A If you're out removing a stripe on epoxy or a thermal plastic, a very hard stripe, you know, you're going to have higher pressures. Higher pressures for harder types of coatings. So it could be as high as 40,000 psi and lower.

Q So if you're removing an epoxy coating from asphalt or concrete, what would one of ordinary skill in the art expect a pump to discharge, in what ranges?

A You would probably -- you know, you'd
probably use higher pressures which probably would be,
you know, 30 to 40,000 psi.

23 Q So it would be 30 to 40,000 psi? 24 A Yes. If you're doing a hard coating like 25 you're talking about, yes, that's where it would be

4

9

Page 52

in. And, you know, that's what the industry would use for that particular application. But if you're talking about a cleaning machine that does lots of different things, you would throttle the engine up or throttle the engine down to whatever pressure you would want or need for the application.

Q So when you're talking about removing stripes be it epoxy or other applications like airport rubber, and we're talking about pump ranges in 25, 000 to 40,000 psi, for example, so as to not destroy the concrete and pavement, isn't it true that different nozzle configurations and pump discharges in relation to nozzle sizes is what's employed?

14MR. PFEIFER: Objection; form.15BY MR. COHEN:

16

Q Is that correct?

17APotentially, yeah. I mean, you would want to18pay attention to your jets and your pressures, yes.

19 Q So what would you take into consideration to 20 remove an epoxy, for example, that is adhered to the 21 asphalt, so that you remove the epoxy, but not dig into 22 the asphalt?

23 A What would I --

24 Q How is that accomplished?

25 MR. PFEIFER: Objection; form.

Page 53 1 THE WITNESS: It's accomplished with, you 2 know, multiple jets and a head and a shroud. BY MR. COHEN: 3 And is there a rate that surface area needs 4 0 5 to be? What would the technical term be --6 MR. PFEIFER: Objection; form. 7 BY MR. COHEN: -- pressure sprayed? Is there an optimum 8 0 9 range to pressure spray an individual surface area? 10 They don't usually spec a pressure. Α They 11 typically spec, you know, high pressure. You don't 12 spec a specific pressure typically. 13 0 Well, I mean what's the range of the pump? 14 Which pump? Α 15 Well, I mean you've put forward that you're a 0 16 technical expert in this area. 17 Α I am. 18 And I'm asking you technical questions. Ο So I 19 believe the pending question we're in the area of, so 20 for pulverizing asphalt, taking an epoxy, you might 21 spec a pump in the range of 25,000 to 40,000 psi. So 2.2 now I'm asking as an expert, well, how do you remove 23 that coating without damaging the asphalt or concrete? 24 MR. PFEIFER: Objection; form. 25 THE WITNESS: If you're removing, you know, a

thermal plastic stripe, you're going to want to look at what pressure you're going to run, your nozzle size, your rotational speed, how many jets you use. I mean there's different things that should be taken into consideration before you start.

6 BY MR. COHEN:

Q So is coatings a term of art in this industryarea of waterblasting?

A term of art? I mean people -- coatings is, 9 Α 10 you know, again a substance or a layer over a surface 11 is how I would define a coating. So when you say 12 coating, I mean it's just so -- it's not misleading, 13 but it's a big cross-section of different compositions of the material used to create the coating. Some are 14 15 harder. Some are softer.

Q So in this industry art area of removing stripes on airport runways employing high pressure pumps, ultra high pressure pumps, what are markings or coatings referred to when people in the industry discuss those terms?

A The different, you know, markings would be, you know, the thermal plastic, epoxy, temporary paints, methacolades. I'm trying to think of what other. A marking could be a temporary tape. Tape is used as a stripe. It would be considered a marking. I mean

there's coatings of glass beads with reflectivity for 1 2 reflectivity properties. So there's a lot of different -- it's a big cross-section if you refer to 3 markings of what it is. 4 5 And what kind of surfaces would you apply the 0 markings you were just talking about to? 6 7 Α I'm not a coatings application. We only do the removal. I don't sell equipment that basically 8 9 does the application of the stripes. 10 So you're not an expert on coatings? 0 11 MR. PFEIFER: Objection; form. 12 I'm not an expert on coatings THE WITNESS: 13 application, applying the stripe to the surface. I'm 14 not a striper or a painting contractor. I'm 15 waterblasting. 16 BY MR. COHEN: 17 But you're an expert in removing of coatings? Q 18 Correct. Α 19 So I'm asking you as an expert, what are 0 20 coatings referred to in this area of art? 21 I mean if you're specifically talking about Α 2.2 markings, you know, you're talking about some of them that are mentioned here. I said a few questions ago I 23 24 gave an example of maybe eight different types of markings, not coatings, but markings, you know, that 25

1 are out there.

3 expertise do you have a machine that can re-	
	emove
4 markings or coatings from roads, airport ru	inways,
5 parking lots and the like, what coatings ar	re they
6 talking about or markings?	
7 MR. PFEIFER: Objection; form	
8 BY MR. COHEN:	
9 Q Are they the same ones that you j	ust listed
10 in your previous testimony?	
11 A If you're only talking about mark	ings and
12 you're not talking about coatings, then I w	ould answer
13 the question yes.	
14 Q Okay.	
15 A Because coatings is very broad.	So cleaning
16 a cleaning machine and coatings are very	ry broad on
17 what you're cleaning. If you're just talking	ng about,
18 you know, paint stripe removal or markings	removal,
19 there's some differences there.	
20 Q So in your patent when you get do	own to the
21 part where it says to remove pavement marking	ngs or
22 coatings from roads, markings and coatings	aren't used
23 interchangeably in this industry?	
A Where are you again?	
25 Q I'm at the second half of that fi	rst sentence.

Page 57

where it says -- do you see where it says -- so it's one, two, three, four lines into that line, and we'll start by a nozzle mounted on a tractor to remove pavement markings or coatings from roads. So the markings that you're referring to and coatings aren't used interchangeably in this field of invention?

7

16

25

A It could be. Yeah, it could be.

8 Q So if you had a machine that was capable of 9 removing coatings from a hard surface with high 10 pressure liquid, in this field of invention, would it 11 be safe to say that you would anticipate a pump as one 12 of the components of the system would pump somewhere in 13 excess of 25,000 psi?

14ATo specifically remove markings from roads,15airports, taxiway, parking lots and the like?

Q Yes.

17 A Yeah. If you're just specifically saying
18 pavement markings from airport runways, taxiways,
19 parking lots and roads, then that could be a pressure
20 that you use, yes.

Q Okay. And if you were to say in this field of invention, if you're removing coatings from a hard surface, that the hard surfaces are more than likely asphalt or concrete in these applications?

MR. PFEIFER: Objection; form.

Page 58

If you're just talking about 1 THE WITNESS: 2 runways and highways -- if you're just talking about 3 runways and highways, then -- state the question one more time. 4 5 BY MR. COHEN: When a person of ordinary skill in the art, 6 0 7 which you're a technical expert --Α I am. 8 9 -- consider for these applications like an 0 10 example of what's in your patent, that when referring 11 to the hard surfaces that you would remove one of those 12 coatings, that that would be limited to the things like 13 roads, airport runways, taxiways and parking lots that 14 are constructed of such as asphalt or concrete? 15 MR. PFEIFER: Objection; form. 16 THE WITNESS: Yeah, I wouldn't limit it to 17 that, no. But that could be some of the surfaces that 18 coatings -- sorry -- or markings, stripe coatings, 19 markings could be removed. So that could be a surface 20 that these markings are on, yes. 21 BY MR. COHEN: 2.2 0 I mean you're familiar with the removal of 23 airport runway rubber? 24 Α Yes. What surfaces other than asphalt and concrete 25 0

would a plane that's going to leave, is a skid mark the technical term --

3 MR. PFEIFER: Objection; scope.
4 BY MR. COHEN:

5 Q -- or leaving rubber debris upon the runway? 6 What surfaces other than asphalt and concrete are you 7 familiar with that need rubber removal in this field of 8 invention?

9 A On aircraft carriers, there's steel decks
10 that require rubber removal as well. It's called
11 vulcanizing of the rubber is what it is. It vulcanizes
12 the rubber onto the surface, a substrate. So different
13 substrates.

14 Q Are there any other surfaces you're aware of 15 where you can vulcanize the rubber?

A I mean if you're asking me are there other surfaces that runways are made of other than asphalt and concrete, I mean if you're just specifically talking about rubber removal, no.

Q So then a person of ordinary skill in the art where when they're talking about one of the markings, coatings or vulcanized as you just testified to, a hard surface to that person of skill would be asphalt, concrete. It could be steel like on an aircraft carrier deck. But that would be the area of hard

Page 60 surfaces that they would be limited, to those sort of 1 2 groups of materials? 3 MR. PFEIFER: Objection; form. If you're just talking about 4 THE WITNESS: 5 runway and rubber removal, that would typically -those three surfaces that you just spoke of would be 6 7 typical, yes. And so a person of skill in the art would look at those surfaces, yes. 8 9 BY MR. COHEN: 10 So you've reviewed the 7255116 patent; 0 11 correct? 12 Α Which one is that now? 13 0 That's the patent that you offered your 14 opinion in, in this Inter Partes Review. 15 Α I'm familiar with everything in my 16 declaration, in my petition, but which one are you 17 referring to? 18 I mean the patent at issue that you --Q Oh, 116? 19 Α 20 Yes. Q 21 Α Of course. Absolutely. 2.2 So would you agree -- is it fair to say that 0 that is the same field of invention as your 905 patent? 23 24 The 116 patent only is a cleaning machine. Α And, you know, our box does different things. 25 It has

other applications, but one of which is the 905 patent, 1 2 the debris box, the sloped forward debris box could do vacuuming of stripes. That's one of the things it 3 could do, but that's a cleaning machine in 116. So 4 5 both do various different applications I guess to be even more specific. 116 has a broad base of 6 7 applications or could and has a cleaning machine and so does, you know, our box. Our box could debris a 8 9 cross-section of different coatings.

10 Q So in the summary of your invention in the 11 905 patent, which is Exhibit 201 (sic), Waterblasting 12 201 (sic) --

13

A Okay.

14 -- this inventive structure is used with a 0 15 tractor of the type used to remove pavement markings or 16 coatings from asphalt or concrete roads. So there's an 17 application, and then it goes on to say parking lots 18 and the like by blasting the asphalt or concrete with 19 water under pressure. And just to be complete, it goes 20 on that the technology is also used in removing 21 pavement markings or coatings and built-up runway 2.2 rubber from airport runways and taxiways as indicated at airport technology dot com. So in that application 23 I just read, it's fair to say that the disclosed 24 invention in the 116 patent and the disclosed 25

Page 62 embodiment or one of them in your 905 patent are of the 1 same field of invention? 2 MR. PFEIFER: Objection; form. 3 They have some similarities, a 4 THE WITNESS: 5 slight overlap. (Blasters Exhibit No. 1001 was so marked for 6 7 identification.) BY MR. COHEN: 8 So in this field of invention that's 9 0 10 disclosed in your 905 patent, what would somebody 11 consider high pressure? 12 MR. PFEIFER: Objection; form. 13 THE WITNESS: State the question again, 14 please. 15 BY MR. COHEN: 16 In the field of invention, for example, that 0 17 your patent, the 905 patent, is directed to for 18 removing markings and coatings from roads, for airport 19 runways, taxiways, you know, we discussed -- you 20 testified earlier about epoxies that need to be 21 I think the term of art is vulcanized rubber removed. 2.2 for the rubber that is attached to the concrete or 23 asphalt. What would somebody of ordinary skill in the art in this area consider high pressure? 24 25 MR. PFEIFER: Objection; form.

1 THE WITNESS: If you're taking pavement 2 markings off of runways or highways, you know, typical pressure could be, you know, 25,000 psi to 40,000 psi. 3 BY MR. COHEN: 4 5 Would you expect to be able to remove 0 6 vulcanized rubber from an airport runway using 7 400 psi? Would you expect to be able to do that? 8 А 9 Could you? Q 10 If you're just talking about rubber Α No. 11 removal, I mean typical pressures are, you know -- no, 12 you wouldn't typically do that with -- what did you 13 say, 400 psi? 14 For example. So then if one of ordinary 0 15 skill in the art, for example, is going to remove an 16 epoxy stripe from a roadway, what's the minimum pumping pressure they would expect to be able to remove that 17 18 stripe or coating? 19 If you're just talking about coating removal Α 20 and not cleaning, if you're talking about the removal 21 down to the substrate, then you would probably use 2.2 25,000 to 40,000 psi.

Q Okay. So in stripe removal, it would be inaccurate to say removing the stripe from the street is cleaning the stripe off the street?

Page 64 MR. PFEIFER: Objection; form. 1 2 THE WITNESS: I'm not sure what the question It sounded like a statement, and I didn't --3 was. BY MR. COHEN: 4 5 These are different cleaning applications. 0 So is it technically incorrect to say removing 6 7 vulcanized rubber from an airport runway is not cleaning the runway? 8 9 MR. PFEIFER: Objection; form. THE WITNESS: I mean I would guess I would --10 11 you know, I would answer that cleaning is very 12 subjective. Cleaning a surface to one person is 13 different than to another person, you know, because there's a whole different level of cleanliness. 14 You 15 know, so maybe I'm not understanding your question. 16 BY MR. COHEN: 17 Okay. Let me ask it this way. You're a 0 technical expert in this field? 18 19 Α Yes. 20 And I'll ask you the question. You're asked 0 21 to clean vulcanized rubber off of a runway. 2.2 Α Okay. What sort of surface, for example, would you 23 Ο expect that rubber to be on? 24 25 As we talked earlier, I mean typical runways А

are either asphalt, concrete or steel on an aircraft 1 2 carrier. That's typical. 3 And what sort of pressure would you need to 0 use to remove that vulcanized rubber? 4 5 MR. PFEIFER: Objection; asked and answered. 6 THE WITNESS: If you're trying to remove it 7 all the way down to the -- what pressure would you use? Anywhere from 15,000 to 30,00, 35,000 psi. 8 9 BY MR. COHEN: 10 So in your declaration if you look on Page 0 10 -- Blasters 1009 is the exhibit. 11 12 Okay. Yeah. Α 13 0 Paragraph 18, which is under the heading of 14 high pressure which is numbered 17 above that, you're 15 saying under the broadest reasonable interpretation --16 do you agree that's what BRI stands for? 17 Α Yes. 18 A POSA, a person of ordinary skill in the Ο 19 art, would have understood the term high pressure to 20 mean of or relating to pressures higher than normal 21 especially higher than atmospheric pressure? 2.2 Α Right. 23 What's atmospheric pressure? 0 24 Α Atmospheric pressure is the pressure that we It's 14.7. So we're saying anything that's 25 live in.

Page 65

Page 66 higher than that is high pressure. Anything lower than 1 2 atmospheric pressure is low pressure. 3 Anything lower than atmospheric pressure is 0 low pressure? 4 5 It's low pressure. Α So then the water coming out of a shower head 6 0 7 is high pressure in your opinion? Α Yes. 8 9 And in the field that the 116 patent is 0 10 concerned with, a person of ordinary skill in the art 11 would understand the term high pressure to mean 12 anything above atmospheric pressure? 13 А They could, yes. 14 So what typically comes out of a garden hose 0 15 pressure? Are you familiar? 16 City pressure is typically 50 psi. А 17 And would one of skill in the art be able to 0 18 expect to be able to remove a marking or a coating or 19 airport vulcanized rubber from these surfaces using a 20 water hose at city pressure of 50 psi? 21 They use different pressures for different Α 2.2 applications. So I mean, you know, NLB is prior art that's there for this specific application of taking a 23 24 stripe off with pressures up to 40,000 psi. 25 But that wasn't my question. I started my 0

1 question with --

2 A You can't take a robust stripe off a roadway
3 with a garden hose.

Q So then in this industry area, one of ordinary skill in the art would understand the term high pressure to start at what range?

7

A I don't know who the individual is.

8 Q Well, you're the expert here today. At what 9 range would --

10 A Are you talking about stripe removal, or are11 you talking about cleaning?

12 Q I'm talking about being able to remove 13 coatings with coatings being defined as vulcanized 14 rubber on airport runways, epoxy coatings, line 15 stripes, things that are found on roadways.

16 So the 116 patent is a cleaning machine. А So 17 I wouldn't say a coating is a vulcanized rubber. It could be, but that's not limited to that. It could be 18 19 dirt and grime, you know, and any substance that's 20 spread over a surfaces is how I would describe a 21 coating. So if it's a softer coating, you'd use a 2.2 lower pressure. If it's a harder coating, you'd use a 23 higher pressure.

24 Q Okay.

25

A But you're specifically talking about stripe

Page 68 removal only. And if you're only talking about stripe 1 2 removal, then you're going to need to use in that case 3 higher pressure. When you read the 116 patent, do you recall 4 0 5 that patent discloses that the ranges of high pressure they're talking about is 25,000 to 40,000 psi? 6 7 I saw that, yes. I read that. Α Would that disclosed range be consistent with 8 0 9 what a person of ordinary skill in the art would 10 consider high pressure to be in this area of 11 technology? 12 А No. 13 So you're a person of ordinary skill in the 0 14 art in waterblasting? 15 Α Correct. 16 And in waterblasting, what range would you 0 17 define high pressure for being able to accomplish like, 18 for example, in your 905 patent being able to remove all the disclosed coatings, pavement and runway rubber? 19 20 MR. PFEIFER: Objection; asked and answered. 21 THE WITNESS: I'm not including pulverized 2.2 asphalt for removal because that's not the intent. 23 Paint removal, rubber removal, thermal plastic tape and curing compound, if you're just talking about those 24 five, those five specific applications, but it's not 25

limited to that. It's much broader than that. 1 Then, 2 again, the pressures could be 15,000 psi to 40,000 psi. But if you go on to read, it talks -- but this patent 3 is broader based. So if you go on to read, you know, 4 5 debris, there's other items that are listed here that are being cleaned, and, again, you would use a low 6 7 pressure. So if you're cleaning grease or grime off a runway, you're going to run very low pressures, still 8 9 high pressure, but lower pressures.

10 BY MR. COHEN:

11 Well, so in your declaration here, from the 0 12 end of Page 10 and then the top of Page 11, the 116 13 patent while titled stripe removal system doesn't claim 14 a system designed specifically for the removal of paint 15 stripes. And then you go on to say rather the claimed 16 system is simply a cleaning system. Without providing 17 any quantitative limits or ranges on the qualitative high, a POSA would understand that the claimed system 18 19 is any cleaning system employing a pressure higher than 20 atmospheric pressure.

You testified earlier that you are familiar with the range disclosed in the 116 patent of 25,000 to 40,000 psi. Why did you not account for that in your opinion? You claim in your opinion that the 116 patent doesn't claim a system design specifically for the

Page 70 removal of paint stripes. If a machine was built based 1 2 on the 116 patent disclosure, would a pump that operated in a range of upwards of 25,000 to 40,000 psi, 3 would that be sufficient to remove paint stripes? 4 5 MR. PFEIFER: Objection; form. No. You can remove stripes at 6 THE WITNESS: 7 lower pressures than that as well. BY MR. COHEN: 8 9 0 In that disclosed range, would you be able to 10 remove the epoxy coatings we were talking about? 11 Yes. Α 12 And the vulcanized runway rubber? 0 13 Α Yes. But again it's a cleaning system, so 14 there's other applications other than just rubber and 15 paint. It's a cleaning machine. So it's taking all 16 different types of different coatings off. 17 So if a machine is built based on what's 0 18 disclosed in the 116 patent, that, for example, has a 19 pump that discharges somewhere in the range of 25,000 20 to 40,000 psi, what applications other than removing 21 coatings that we've been talking about all morning from 2.2 roadways and vulcanized rubber on airport runways would 23 that be employed to clean? 24 I mentioned also that, you know, you're Α cleaning dirt and grime off roads. You're preparing 25

Veritext Legal Solutions

Page 71

stripes for restriping application which would all be at lower pressures. You're cleaning asphalt to create more friction on a road. You know, there's a whole multitude. And that's the interesting thing with high pressure water as a cleaning system is people use these machines for lots of applications throughout the world. And so the applications are very broad.

Q So would it be fair to say that a person of ordinary skill in the art, if they were given the task of cleaning dirt off of the road would not employ a system disclosed in the 116 patent pumping at 40,000 psi?

13

24

25

A They would not.

14 Q So how do you justify your opinion here 15 rather the claimed system is simply a cleaning system 16 when you're referring to the 116 patent?

17 A I didn't make that determination. That's18 what it says in 116, that it's a cleaning system.

19 Q That cleans and, for example -- I mean is it 20 correct to say that removing the airport rubber is not 21 cleaning off the airport? I mean would a person of 22 ordinary skill in the art dispute that 23 characterization?

A Can I see the 116 patent?

MR. PFEIFER: You haven't been provided with
Page 72 1 that. 2 THE WITNESS: What's that? MR. PFEIFER: You were never provided a copy 3 of that. 4 5 THE WITNESS: Can I see the 116 patent. 6 MR. COHEN: Do you have a copy of it? BY MR. COHEN: 7 I mean I'm asking you what's in your 8 0 9 declaration. 10 I'm saying that, you know, my recollection is Α 11 it is a cleaning system. That's the way it's defined, 12 you know, from the claims that I reviewed, which was 1 13 through 6 and 10. It's a cleaning system. 14 MR. MCHALE: Here's the patent. Here's a 15 clean copy. Well, actually this is not. 16 MR. COHEN: I don't have a clean copy here. 17 I'm not intending to make this an exhibit. 18 MR. LYTVYN: I could probably provide you with a clean copy. I think I have an extra one here. 19 20 MR. COHEN: Okay. MR. LYTVYN: So this is exhibit --21 2.2 MR. PFEIFER: Do you want to take a look at 23 it? 24 MR. LYTVYN: Yeah. And we would like to break for lunch, if that's fine. 25

305-376-8800

Page 73 MR. PFEIFER: Do we have a question pending? 1 2 MR. COHEN: He wanted to review the 116 patent, but, yes. 3 THE WITNESS: This talks about the field of 4 5 the invention, and the invention relates to the field of high pressure cleaning devices for highways, 6 7 runways, parking decks and other hard surfaces. So it's a cleaning device. 8 9 BY MR. COHEN: 10 Okay. And if you're one of ordinary skill in 0 11 the art in this field, you're saying other hard 12 surfaces refers to anything under the sun? Is that 13 your testimony? I'm saying if it can support the vehicle and 14 Α a tractor, then it's considered a hard surface. 15 16 0 Okay. 17 We're not broad reaching here. I mean we're Α 18 trying to -- we are broad reaching, but it's a cleaning 19 device. One of the things that it does is it cleans 20 stripes --21 0 Right. 2.2 Α -- or removes stripes or cleans stripes. 23 So here's my next question. We're talking in 0 the field of invention which you just read. 24 We're talking about cleaning highways, runways and parking 25

decks. And then the summary of the present invention 1 2 in column 2 says briefly discloses a cleaning system for removing coatings from a hard surface by a high 3 pressure liquid. Do you see that? So isn't it true 4 5 that someone of ordinary skill in the art in this field --6 7 Α Where are you now? I'm in the summary of the invention, column 8 0 9 2. 10 Α Okay. 11 -- where further going on --0 12 I mean some of the prior art that I reviewed Α 13 was the NLB system which does the same thing. So 14 there's prior art out there that we looked at and I 15 looked at that does the same thing. 16 So going from what you read the field of the 0 17 invention to the summary of the present invention, 18 would you agree that we're talking about removing the 19 coatings that are being removed are in this field that 20 you're an expert in, that your patent as well discloses 21 coating removals? 2.2 MR. PFEIFER: Objection; form. 23 THE WITNESS: No. BY MR. COHEN: 24 So one of ordinary skill in the art in your 25 0

305-376-8800

Page 74

1 industry wouldn't understand that this is -- that this
2 patent is for removing vulcanized rubber and coatings
3 that are on runways?

A I think it does that, but it does other things as well. There's other applications for that machine.

7

Q And then let me --

A It says briefly disclose the cleaning system for removing coatings from a hard surface by high pressure liquid. So it's broad based. It's removing a coating, you know, any substance or foreign matter over a surface, you know, with a pressure liquid. So it's more broad. It's much broader than just stripe removal.

15

Q Okay.

A It can do more than just stripe removal. It's a cleaning system as is some of the other prior art that's out there. Those are cleaning systems. You know, Jones has a cleaning system. Clemons has a cleaning system. There's a lot of cleaning systems out there that are commonly known.

Q But we're talking about the 116 patent right now. And we're talking about your opinion on how one of ordinary skill in the art would determine highway pressure is anything above atmospheric. And further in

1 your declaration, we're back to talking about -- you 2 said the 116 patent while titled stripe removal system 3 doesn't claim a system designed specifically for the removal of paint stripes. Rather the claimed system is 4 5 simply a cleaning system. So in the 116 patent, I want to direct you to column 3. 6 7 Α Okay. And at line 57 in column 1. 8 0 9 Α Yeah, I am. 10 Do you see it says the trailer of 17? 0 11 Column 56, you said? Α 12 I'm in the detailed description of the --Q 13 Α Okay. Over here. All right. What number? 14 Line 56 or 57 is the paragraph. 0 15 Α Okay. I see it. 16 It starts out trailer of 17. 0 17 Yes, I see it. Α 18 The trailer 17 is removably attached to the Q prime mover through a conventional trailer hitch. 19 20 Mounted on the bed 22 of the trailer is a high pressure 21 fluid pump greater than 25 to 40,000 psi and from 2 to 2.2 15 gallons per minute. 23 Α Okay. 24 That's not in your definition of high 0 25 pressure.

Page 76

Objection; form. 1 MR. PFEIFER: 2 THE WITNESS: Sure, it is. It's above 3 atmospheric pressure. BY MR. COHEN: 4 5 Okay. So if one of ordinary skill in the art 0 was asked to remove vulcanized rubber from an airport 6 7 runway, could they accomplish that with the disclosures in the 116 patent? 8 9 Α State the question again, please. If a person of ordinary skill in the art was 10 0 11 tasked to accomplish one of the objectives disclosed in 12 this stripe removal system --Which of --13 Α 14 -- which is the 116 patent --0 15 Α Right. Which objective? Which objective 16 specifically. 17 Well, if, for example, we're talking about Q 18 removing coatings -- or strike that question. Let me 19 ask you this way. If one of ordinary skill in the art 20 were to read the 116 patent, and in column 3, line 57, 21 it says, Oh, the high pressure fluid pump is in a range 2.2 of 25 to 40,000 psi and pumps at 2 to 15 gallons per 23 minute. What applications other than removing the coatings and airport vulcanized rubber applications 24 would that person of ordinary skill in the art use this 25

Veritext Legal Solutions

## sort of machine for? 1 2 MR. PFEIFER: Objection; form. 3 THE WITNESS: For cleaning, cleaning stripes, for roughening of -- the cleaning of grease and grime 4 5 off runways or highways. You know, there's a whole multitude of applications beyond the limited 6 7 applications that you're speaking of. Those are very limited, very concise. 8 9 BY MR. COHEN: 10 So --0 11 But it's much broader based because it's a А 12 cleaning system. It can do a lot of different things, 13 which is good. That's the way they intended it to be, 14 so they could use it for a multitude of applications, 15 which is the way the system sold. 16 So as a technical expert, what would you use 0 17 to clean with a pump discharging at 2 to 15 gallons per 18 a minute at 40,000 psi? 19 Α You asked me that question earlier, and I 20 said thermal plastic or epoxy stripes. 21 Are you familiar with what sort of nozzles 0 2.2 you would need to pump that pressure at that volume? 23 MR. PFEIFER: Objection; form. 24 THE WITNESS: What type of nozzles? 25 BY MR. COHEN:

Page 79 1 Q Yes. 2 Α Specifically what do you mean by what type of nozzles? 3 I mean how would a nozzles have to be specked 4 0 5 to handle 40,000 psi at let's say 3 gallons per minute discharge? What would the characteristics of it have 6 7 to be? MR. PFEIFER: Objection; form. 8 9 THE WITNESS: At 40,000 psi? 10 BY MR. COHEN: 11 Yeah. 0 12 They're made of stainless steel. Α 13 0 Okay. Do you know what diameter the nozzles would be? 14 There's all different sizes. There are all 15 А different sizes. There's a whole multitude of 16 17 different sizes. 18 Well, I mean if you were going to build a Q 19 cleaning system that included the vacuum tank that's 20 disclosed in your 905 patent to vacuum up the different 21 debris including pulverized asphalt, and you had a pump 2.2 on there that pumped at 40,000 psi at 3 gallons per 23 minute, what size nozzle would you put --24 MR. PFEIFER: Objection --25 BY MR. COHEN:

Page 80 1 -- would you connect to the discharge of that 0 2 pump? 3 THE WITNESS: It depends on how -- what's that now? 4 5 MR. PFEIFER: Objection; form. It depends on how many jets. I 6 THE WITNESS: 7 mean there could be a whole multitude of how many jets do you want over how wide of a nozzle bar, and there's 8 9 a lot of different -- that's a very broad question. 10 You know, it depends on how wide your bar is and how 11 many jets you want. 12 BY MR. COHEN: 13 0 Let's just say one jet just to keep it 14 simple. So you're going to put one jet on the 15 discharge of a 40,000 psi pump pumping at 3 gallons a 16 minute, what diameter nozzle would you put on that 17 discharge? I don't know. I don't know what the size of 18 А 19 it is. 20 Do you know what exit velocity out of that 0 21 nozzle it would be? 2.2 MR. PFEIFER: Objection; form. BY MR. COHEN;. 23 24 Isn't it true that you would have to size 0 that nozzle based on exit velocities? 25

Page 81 You would have to size the nozzle to meet the 1 А 2 objective of what you're trying to do. So you would size the orifice to the specific application that you 3 4 want. 5 So have you ever built a truck that has a 0 6 pump on it that discharges at 40,000 psi? 7 А Yes. MR. PFEIFER: Objection. 8 9 BY MR. COHEN: 10 And at what gallons per minute does it 0 11 discharge? 12 Α At various different flow rates. 13 0 Just give me an example of one. Is it in the range of 2 to 15 gallons? 14 15 Α State the question one more time. 16 Have you ever built a machine at your company 0 17 Blasters, Inc., in your capacity as the president --Uh-huh. 18 А 19 -- you've also stated in your declaration 0 20 that you're a technical expert. So have you ever built 21 a machine that has a pump on it that pumps at 40,000 2.2 psi in the range of 2 to 15 gallons per minute? 23 MR. PFEIFER: Objection; relevance. 24 THE WITNESS: Have I ever built a machine 25 like that, sure.

Page 82

1 BY MR. COHEN:

2 0 And was that machine used to remove coatings 3 in runway vulcanized rubber? That's one of the applications it could have 4 Α 5 been used for. And in this machine in your mind that I'm 6 0 7 asking you about, how many nozzles does it have? MR. PFEIFER: Objection; relevance. 8 9 THE WITNESS: It's a polarity of nozzles. Ι mean there's no answer. There's no specific answer to 10 11 It depends on, you know, what you're trying to that. 12 do and how many jets there's going to be. 13 BY MR. COHEN: 14 So when you build this machine, how do you 0 15 decide how many nozzles will be on it? 16 You look at the application. You decide how А 17 wide you want it to be, you know, what the objective 18 is, what you're trying to accomplish. 19 So give me a specific example of a machine 0 20 that you've built that has 40,000 psi on it that pumps 21 in a range of 2 to 15 gallons per minute. How many 2.2 nozzles are on that? 23 MR. PFEIFER: Objection; form; objection; 24 relevance. THE WITNESS: 25 I mean anywhere from, you know,

Page 83 a single jet to, you know, 24 jets, you know, somewhere 1 2 in that range, you know, or more. BY MR. COHEN: 3 Okay. So let's say a single jet system. Are 4 0 5 you aware of what the diameter of that nozzle orifice would be? 6 7 Α No. 8 0 How about the 24 system? 9 Α It depends on how many gallons. You gave me 10 a broad scope of how many gallons a minute, and again 11 how many gallons a minute, how wide the bar is, how 12 many jets, all that determine the nozzle size. 13 0 Okay. 14 There's nozzle charts. I mean it's pretty Α 15 in-depth what you're asking me. So there's nozzle 16 charts that people, you know, people of skill, you 17 know, of ordinary skill in the art would have to use. 18 They'd have to use a chart because it's very technical. 19 So just generally, are we talking that 0 20 nozzles in this application of gallons per minute rate 21 of 2 to 15 gallons would be below an inch? Is it fair 2.2 that some of these nozzles could be --Below an inch in diameter? 23 А 24 0 Yes. 25 А Yes.

Veritext Legal Solutions

Page 84

So it's well below. If we're talking 1 0 2 thousandth of an inch for this sort of application, is that how somebody with ordinary skill in the art would 3 size an orifice for one of these nozzles? 4 5 Depending on what pressure and flow they're Α using, it could be a thousandth of an inch, yes, within 6 7 a thousandth of an inch. And are you aware of what the exit velocities 8 0 9 are at these high pressures of 40,000 at, you know, 10 3 or 4 gallons per minute, or I should say just the 11 range of 2 to 15 gallons per minute with, you know, an 12 orifice that's in the thousandth range? 13 Α No, I don't know the exact number. I mean I 14 could get back to you on that, you know, that speed, 15 that mock rating of what it is when it exits. 16 And would you agree that that would be vastly Ο 17 different than a simple cleaning system like a power 18 washer or a street sweeper? 19 Would what be different, the jet be Α 20 different? 21 0 Would the requirements? I mean with a 2.2 cleaning pump that has a 40,000 psi pump on it that's 23 pumping at let's say 5 gallons per minute going to a 24 nozzle --All right. 25 А

would be a simple exchange of hoses and jets. The higher pressure you run --That's not what I'm asking you. I'm asking 0 you would one of ordinary skill in the art take that machine and clean like a football field, for example, turf? Α They would throttle the machine down and clean it at a lower pressure. Yeah, the jet could be used. 0 So an expert in this field of art, if they wanted to -- if they were tasked with buying a machine for cleaning AstroTurf at a sporting complex would scope out a pump at 40,000 psi and just throttle it down, that's your expert opinion? It could be used for that application. Α could be used for that application by throttling it down. But, you know, if you want to go up in pressure, you need to, you know, handle the hoses and, you know, the whole system -- not the whole system. But you would simply change the hoses and potentially the head to do a different pressure. It would be an exchange of commonly known parts and components that are out there Veritext Legal Solutions

-- let's just say one nozzles at 3 thousandth

It would be a simple exchange. I mean it

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

2.2

23

24

25

0

of an inch?

А

Ιt

Page 86

in kind of a rearrangement of how to do it to
 accomplish the objective.

Q Your expert declaration on Page 1 goes on to say -- I'm still within paragraph 18 -- you opine without providing any quantitative limits or ranges on the qualitative term high, a POSA would understand the claimed system is any cleaning system employing a pressure higher than atmospheric.

9 Isn't it true when we went over here in 10 column 3 of the 116 patent, that there are qualitative 11 limits and ranges on how the disclosed machine in the 12 116 patent operates?

MR. PFEIFER: Objection; form.
BY MR. COHEN:

15 Q So isn't that line in your declaration 16 incorrect?

MR. PFEIFER: Objection; form.
THE WITNESS: No. It's correct. It's
accurate.

20 BY MR. COHEN:

21 Q A person of ordinary skill in the art 22 wouldn't understand that the removal of coatings in 23 conjunction with -- if you go higher in column 3 to 24 line 45, it says the sump 14 is connected to the vacuum 25 pump by hose 16. The intake of a high power vacuum

Page 87 pump capable of approximately 1100 cubic feet per 1 minute is connected to the vacuum tank. Is that 2 3 drawing a lot of vacuum in your technical expertise? It's a high power vacuum. 4 Α No. 5 So we're talking about a high power vacuum, 0 6 and we're talking about a high pressure --7 Tell me where you are, please. Α I'm in column 3 right here. And I'm looking 8 0 9 at where 45 is and going down. 10 Α Okay. I've got it. 11 Another component of this is we're talking 0 12 about a vacuum system that's pulling a vacuum at 1100 13 cubic feet per minute? 14 It's a high power vacuum, correct. Α Yeah. 15 0 So one of ordinary \_ \_ 16 But it's just an example though. It's not a, А 17 you know, qualifying definition. I mean it's not a 18 limiting definition. You know, it's an example of what 19 could be used. And high power is just anything above, 20 you know, normal strength or capacity. That's the way 21 I understand high power to be. 2.2 So you're disputing that this is qualitative 0 23 limit arranges disclosed in the patent? 24 MR. PFEIFER: Objection; form. 25 THE WITNESS: I'm saying it's an example of

Veritext Legal Solutions

Page 88 what could be used. 1 BY MR. COHEN: 2 3 0 Okay. So it's a range --It says approximately. 4 Α 5 It's a range --0 6 Α It says approximately. 7 -- of what can be used? 0 It says approximately. 8 Α 9 Right. So you're talking approximately 0 1100 cubic feet per minute. Would somebody of ordinary 10 11 skill in the art think the range of there goes all the 12 way down to a household Dust Buster? Isn't it true 13 that there are disclosures of quantitative ranges all 14 throughout this patent? 15 Α NLB uses a vacuum that 1,000. So I would say 16 1,000 CFM is approximately the same, you know, range, 17 if you will, qualitative to 1100 CFM. So NLB, which is 18 prior art, referenced them. My statement basically is 19 within range of 1100. NLB uses a vacuum that's 1,000. 20 And they use a pump that's 40,000 psi; 0 21 correct? 2.2 Α Up to 40,000 psi. 23 And you're representing that NLB is another 0 competitor in the market in the field of the invention 24 that we're talking about? 25

Page 89 Objection; scope; objection; 1 MR. PFEIFER: 2 relevance. 3 THE WITNESS: Are they another competitor? BY MR. COHEN: 4 5 Are they a competitor of yours? 0 Competitor of whose? 6 Α 7 Of yours? 0 8 Α Yes. 9 Okay. And are they --Q 10 They're a competitor of Waterblasting Α 11 Technologies as well. 12 And the machines that they build, the pumps 0 13 are in this same field of art that you're an expert in? 14 Α They are also cleaning machines, but one of 15 the things they do is stripe removal. 16 Okay. So that wasn't exactly my question. 0 17 But, you know, we're talking about 1100 cubic feet per 18 minute. 19 Α Right. 20 And you say, well, NLB discloses that, that Q 21 somebody in this industry who is a competitor who I 2.2 assume they have people of ordinary skill in the art that work for them designing? 23 I would assume so. 24 Α 25 Q And, you know, we talked about a range of

25 to 40,000 psi, and you say, well, NLB has a pump 1 like that that's out there. 2 3 MR. PFEIFER: Objection; testifying. BY MR. COHEN: 4 5 Not my question. My question is those are 0 quantitative limits. When I mentioned quantitative 6 7 limits, you give me an example. I'm saying isn't it true that those limits are disclosed in the 116 patent? 8 9 Α They are disclosed as an example. The 10 pressure are an example. It's not a limiting 11 definition. It's an example. 12 In your expert opinion here, it says that 0 13 without providing any quantitative limits or ranges, a 14 POSA wouldn't understand reading the 116 patent in its entirety. There are disclosed limits. That statement 15 16 is incorrect; right? 17 А No. 18 So did you consider the disclosures that we Q previously discussed here in column 3 in --19 20 Α It's an example. 21 -- deriving your opinion? 0 2.2 Α It's an example. It's not a limiting 23 definition. It's an example. And there is prior art out there that is run at that pressure of -- well, in 24 this case, the high power of the vacuum. 25

305-376-8800

Page 90

Page 91 In terms of high pressure, why would a person 1 0 2 of skill in the art, in the technology area that the 116 patent is directed to, believe that high pressure 3 could be any limit or any range over atmospheric? 4 5 Α Why would they? Yes. Like you're a technical expert. 6 0 Why 7 did you not note the disclosed ranges in the 116 8 patent? 9 А Because it's a cleaning machine and lower 10 pressures -- much lower pressures can be used. 11 Did you write paragraph 18 of your 0 12 declaration? 13 Α It's was a collaborative effort. I was 14 involved in it, yes. All the technical contributions or omissions 15 0 16 in this case were contributed by you solely? 17 Α It was a collaborative effort with No. 18 myself and our attorneys. 19 So as a technical expert, you would not 0 20 understand that the disclosed operating pressures of 21 the device disclosed in the 116 patent are in the range 2.2 of 25 to 40,000 psi? No, because it's a cleaning machine. So lots 23 А of cleaning is done at a lesser pressure than 25,000. 24 Are you familiar with the term file history? 25 0

305-376-8800

	Page 92
1	A File history?
2	Q Yeah, when a patent is prosecuted
3	A Is there other language for that?
4	Q I mean that's the term of art. So any office
5	actions, responses by the patent owner would all go in
6	a file, and that is the file history. Are you familiar
7	with that?
8	A I've heard the term. I didn't review it
9	before we sat down today.
10	Q Did you review it before you authored your
11	expert declaration?
12	A I reviewed it, but I didn't I don't think
13	I went into I didn't deem it as relevant. It didn't
14	seem relevant.
15	Q Did you review the file history for any
16	admissions or disclosures of limits or ranges or
17	discussions of the operation of the disclosed claims in
18	the 116 patent?
19	A No.
20	Q If there was disclosures in the file history,
21	would you agree that reviewing those would be important
22	in deriving an opinion?
23	A No, I wouldn't.
24	Q Why not?
25	A I just didn't it didn't seem relevant, and

Page 93

so it wouldn't have changed my position in the 1 2 declaration. 3 Are you aware that any admissions or 0 disclosures in a file history are relevant? 4 5 I guess it's a case by case. Α 6 0 Well, I mean I'm asking what's your 7 understanding of that? I quess they could be relevant. 8 Α 9 Oh, is it your understanding that they are? 0 10 Α They could be. 11 Well, if they could be, then why did you not 0 12 review the file history in it's entirety for these sort 13 of details? I mean I wrote as the, you know -- we wrote 14 А the declaration. I wrote the declaration. 15 We 16 presented it, and, you know, the petition, and 17 basically we moved forward. I looked at a few, you 18 know, of these. I looked at the declaration, reviewed 19 it a few times and came in today. I wrote it, so I was 20 familiar with it, so I didn't have to prepare much. 21 We talked about at the beginning of this 0 2.2 cross-examination, in your declaration, you're holding 23 yourself out as a technical expert, and I said aren't you an interested technical expert, and you said no. I 24 removed the bias from this in my evaluation. Now, here 25

we're talking about the file history, and we're talking 1 about quantitative limits that are included both in the 2 patent and in the file history, and you didn't review 3 the file history. 4 5 MR. PFEIFER: Objection; testimony. I reviewed the patent, the 116 6 THE WITNESS: 7 And I reviewed, you know, this patent, the 116 patent. patent and basically claims 1 through -- and that's how 8 9 I prepared myself, 1 through 6 and claim 10. BY MR. COHEN: 10 11 So then your declaration here about not 0 12 providing any quantitative limits has flaws to it since 13 you did not consider everything that relates to the 14 those quantitative limits or ranges? 15 MR. PFEIFER: Objection; testimony. 16 THE WITNESS: My declaration was my 17 declaration. 18 BY MR. COHEN: 19 I mean you're an interested witness? 0 20 Yes. Α 21 You're an interested technical expert? 0 2.2 Α Yes. And I'm asking you, did you review materials 23 Ο that are relevant to your opinion? 24 25 А Yes.

Q And so you reviewed the file history of the 2 116 patent in its entirety?

⊿ 3

4

5

A I said I looked at it. I said I reviewed it, and that was it. And I said it didn't seem relevant to my statement in the declaration.

Q So did you read anything in the file history about quantitative limits on pump pressure, for example?

9 Α In the patent, it talked about -- I think it 10 talked about 25,000 to 40,000 psi. I wasn't trying --11 we weren't trying to beat the patent, or, you know, 12 that wasn't the goal was to beat the patent of 13 Waterblasting Technologies. The goal was to build the best system available. So we looked at the prior art, 14 15 and we looked at, you know, commonly known components 16 that are on the market and rearrangement, and we built 17 what we perceived to be the best system.

18 You're not answering my question. I'm asking 0 19 you, you're building an expert opinion here. I'm 20 saying -- and you testified that maybe some of the file history was irrelevant. And I'm asking you, did you 21 2.2 read anything in the file history related to 23 quantitative limits or ranges because your expert opinion here is that the 116 patent and the related 24 25 disclosures do not provide any quantitative limits or

ranges. So if that file history disclosed quantitative 1 2 limits or ranges, isn't it possible that this whole 3 opinion here in incorrect or incomplete? Objection; form. 4 MR. PFEIFER: 5 THE WITNESS: We saw it as an example and not a limiting definition is the way we saw it. 6 BY MR. COHEN: 7 So you keep saying we, and I'm asking you a 8 0 9 specific question about your expert declaration. So in 10 terms of how you evaluated quantitative limits or 11 ranges, did you evaluate any quantitative limits or 12 ranges related to the 116 patent outside of the 13 physical patent itself? I reviewed it but didn't see it -- I didn't 14 А 15 deem it as relevant. 16 So the answer is yes, that did you notice in 0 17 office action, for example, that the patent owner's representative talked about qualitative limits or 18 19 ranges? 20 А I don't recall that, no. 21 You don't recall? You don't recall if you 0 2.2 read it, or you don't recall if you made the decision to include it in your opinion? 23 24 I don't recall -- I don't recall what the Α qualitative limits were. 25

Page 96

Page 97 Would you agree that for a technical expert's 1 0 opinion to be objective, all the facts and 2 circumstances should be included in an opinion? 3 It was a broad-based approach. I mean I 4 Α 5 looked at a lot of technical information, so yes. So as a technical expert, do you often review 6 0 7 documents for accuracy by skimming over them? 8 Α I'm a detailed person. 9 0 So if you're a detailed person and your 10 opinion says that the 116 patent doesn't provide any 11 qualitative limits or ranges, wouldn't, for example, 12 disclosing high pressures as 25,000 to 40,000 be a 13 quantitative limit or range? I read it as an example, not a limiting 14 Α definition is the way I understood it. Maybe I 15 16 misunderstood it. You know, maybe I misunderstood what 17 it said. 18 0 So then if you misunderstood it, that is a 19 quantitative limit or range? 20 А I think it was a -- I read it as, you know, 21 an example, not a limiting definition, as an example of 2.2 what the pressure that could be used. This is a cleaning system. It can be run at much lesser 23 24 pressures than 25,000 psi. 25 That's not my question. I'm asking you what 0

Page 98

1 method did you derive this opinion? You're saying 2 that --

A As a person of the ordinary skill in the art,4 that's how I derived that opinion.

5 Q Would you say a person of ordinary skill in 6 the art would read the 116 patent and the corresponding 7 file history and say there's no quantitative limits or 8 ranges related to the term high?

9 A I would say that it was used as an example. 10 And, you know, if you're a person of ordinary skill in 11 the art, you would know that it can be used -- that 12 that machine can be run at much lower pressures for 13 other cleaning because it's a cleaning machine for 14 other applications.

Q Okay. But you chose to pull the term high pressure out and discuss it in a paragraph by itself. So high pressure you say is anything above atmospheric because there's no provided quantitative limits. Isn't that incorrect? There are quantitative limits?

A It shows it as an example. It states an example in the 116 patent of 25,000 to 40,000 psi, but that was an example of where it could be run.

Q And it's also true that those quantitative
limits are not discussed by you at all in your opinion?
A Not in my declaration.

Page 99 MR. PFEIFER: I guess we can break for 1 2 lunch. How long do you want? 3 MR. LYTVYN: How much longer do you guys anticipate going? 4 5 MR. COHEN: I don't know. It depends. MR. LYTVYN: Well, then I guess let's take a 6 7 lunch where we can actually get some food. So maybe an 8 hour? 9 MR. COHEN: That's fine. 10 (Lunch recess was taken at 12:40 p.m. and 11 returning at 1:35 p.m.) 12 CROSS-EXAMINATION (Continued) 13 BY MR. COHEN: We're back on the record. Just a question I 14 0 15 might have forgotten to ask earlier. What's your 16 financial interest in Blasters, Inc.? 17 Α I'm a partner in the business. 18 And what does that entitle? Q 19 It entitles ownership. Α 20 What percent ownership do you have? Q 21 My dad just passed away here recently, and Α 2.2 we're reworking that. 23 Sorry to hear about the passing of your 0 24 father. Prior to his passing, what was your percentage of ownership? 25

Page 100 1 It was  $44 \ 1/2$  percent. А 2 0 And do you know what your anticipated ownership might be, I'm assuming subsequent to the 3 handling of your father's estate? 4 5 А It's to be determined. Either a 50/50 or a minority ownership. 6 7 But you anticipate the 44 1/2 half to 0 increase? 8 9 Α Potentially, yeah. Yeah. Most likely, yes. 10 Okay. I'd like to direct your attention to 0 11 Page 126 of your declaration in Exhibit Blasters 1009. 12 Α Okay. 13 0 Paragraph 23 is talking about the term 14 connected to? 15 Α Yes. 16 And then you give an opinion of what the term 0 17 connected to means; correct? 18 Α Correct. 19 And that's based on a case, and the case in 0 20 your declaration is Pacific Surf Designs, Inc., versus 21 SurfWaves, Limited and the citation for that is 2.2 2017 WL 506465, and it's the Patent Trial and Appeal 23 Board, 2017, (citations and quotations omitted). So you reviewed that case? 24 25 А Yes.

Veritext Legal Solutions

Page 101

1 2

Α

Q And what is that case about?

.

I don't recall right at this point.

Q Do you recall the case being a patent case? A I have reviewed a lot of different things. I don't recall that one. I mean I understand connected to, you know, directly or indirectly in length, but I don't recall the specifics of that case.

8 Q You don't recall the specifics because you 9 didn't read the case, because you forgot what the case 10 said? You don't recall because this is not something 11 you contributed to your expert declaration? I mean 12 what is the root of your confusion?

A I just don't recall it. I reviewed it, but I
don't recall the basis of that. I reviewed a lot of
different information.

16 Q Do you recall -- assuming this is a patent 17 case, do you have any reason to dispute that this 18 wasn't involving a patent?

A

No.

19

20 Q Do you recall if the patent at issue in this 21 case had anything to do or was related to the field of 22 invention that the 116 patent was directed to?

A I think it had some relevance. That's why Ireferenced it.

25 Q So what's your basis for coming up with this

1 opinion?

2	MR. PFEIFER: Objection; form.
3	THE WITNESS: I mean, you know, connected to,
4	you know, is an articulated link. I mean different
5	terms have some similarity like that. I don't recall
6	that case specifically. So I can't respond. I don't
7	remember.
8	BY MR. COHEN:
9	Q So as you testify here today, you don't
10	remember the basis for your opinion of the term
11	connected to?
12	A Can you reference that case for me? Can you
13	show that to me? Do you have it?
14	Q I don't have it handy. I'm asking you if you
15	read it. It's your opinion.
16	A I read it, but I don't have it. I don't
17	recall what it said.
18	Q Was this related to cleaning apparatuses that
19	had high pressure pumps on them, high vacuum pressures,
20	or is it some other patent-related case unrelated
21	case?
22	A I think it was unrelated. I think it had
23	relevance to this application or, you know, I wouldn't
24	have referenced it.
25	Q Relevance based on what?

Page 103 It had some commonality. 1 А 2 0 And what is that commonality? I don't recall. I don't recall that specific 3 Α 4 case. 5 Okay. And you don't recall any facts and 0 circumstances of that case? 6 7 I don't. For some reason, I'm having a blank А on that case. 8 9 0 Do you recall why there's no description in 10 your opinion on what this term means related to that 11 case? 12 I don't recall, no. А 13 0 Do you recall making a determination of what formed this part of your opinion? 14 I just don't recall that specific case, so 15 А 16 no, I don't have a response for you. 17 So that's a case you cited. So aside from 0 18 the case cited, which you don't seem to recall, what's 19 the basis for your opinion as it is articulated here 20 today? I just don't recall the case. I mean I just 21 Α 2.2 don't recall that case. I mean this was done -- this 23 declaration was done a long time ago. A lot has happened since then. I don't recall that particular 24 25 case. I can't respond. I don't want to tell you

Veritext Legal Solutions

1 something that's incorrect.

2 0 Well, I'd like you to tell me something that 3 is correct, and I'm asking you what's the basis for this opinion. So let me ask you this way. When you're 4 5 saying connected to in this art area --Connect to is, you know, an articulating 6 А 7 It could be a pin. Basically it's different. link. It's different connection points where you join two 8 9 components which allows movement. So there's a pin. 10 There's horizontal movement. There's vertical 11 There's pins that allow as the connection movement. 12 points and links, and it allows articulation of the 13 head. 14 And that's another term that you propose for 0 construction, which I believe is consistent with what 15 16 you just testified to, which is in that paragraph. And 17 I don't take issue with that at this point. My 18 specific question I'm asking you is you have a 19 definition here talking about directly or indirectly 20 joined. So how would components in the field of high 21 pressure water cleaning devices be indirectly joined? MR. PFEIFER: Objection; form. 2.2 23 THE WITNESS: How they're indirectly connected is basically from a -- you have like a 24 You have a vacuum power unit that connects to 25 vacuum.

Veritext Legal Solutions

1	the vacuum debris box indirectly. The hose goes from
2	the top all the way out to the head of the utility
3	tractor. So it's indirectly connected. So it goes
4	from the vacuum power unit indirectly to the vacuum
5	debris box. From the vacuum debris box, the hose goes
6	out and goes to the head of that of the tractor. So
7	it's an indirect connection. So a direct connection
8	would be like the high pressure hose. It goes from the
9	pump directly to the head of the tractor. So that's
10	the difference between indirectly connected and
11	directly connected.
12	BY MR. COHEN:
13	Q But you would agree that your example of a
14	pumping system, the entire system is connected from the
15	pump to the discharge nozzle
16	MR. PFEIFER: Objection; form.
17	BY MR. COHEN:
18	Q or the vacuum pump is connected from the
19	suction head all the way through to the vacuum tank?
20	A You said through the system. Okay. So one
21	question at a time. So the high pressure pump. From
22	the high pressure pump, the hose travels to the head of
23	the tractor. So from the truck side, the high pressure
24	pump has a hose. The hose goes to the head of the
25	tractor. On the vacuum power unit, the vacuum hose

Page 106 goes to the tank, and from the vacuum tank is an 1 2 additional hose that goes down to that of the tractor. 3 0 Okay. And so that's the difference between 4 Α 5 indirectly and directly connected. So it's two components being connected. 6 7 And you agree that that is not articulated in 0 your opinion, the explanation, the explanation you just 8 testified to? 9 10 MR. PFEIFER: Objection; form. 11 THE WITNESS: It just states connected, an 12 indirect connection or a direct connection. That's 13 what I submitted. 14 BY MR. COHEN: 15 0 Right. And you just testified to a more 16 detailed explanation of what indirect is. And I asked 17 you yes or no, is it correct that that explanation did 18 not make it into your declaration of what you testified 19 to. 20 What I just said? What I just said --А 21 0 Yeah. 2.2 Α -- about the vacuum --23 0 Yes. 24 Α -- and the high pressure? 25 0 Yes.

Page 107 1 No, it was not. Α 2 0 Okay. 3 It wasn't there, no. Α And you cite to an indirect connection 4 0 5 definition from a case that you don't recall the details of? 6 Correct, I don't recall the details of that 7 А 8 case. 9 Q So did you review your declaration prior to 10 today? 11 T did. Α 12 And you did not review any of the cites here Q 13 such as this case of Pacific Surf Designs? I reviewed the declaration a few times to 14 А 15 prepare myself for today. I wrote it, and I just don't 16 recall what Surf Designs versus SurfWaves, what that 17 case is about. 18 So in preparation for being asked a question 0 about indirect connections, is it fair to say that you 19 20 didn't prepare to answer that question today? 21 MR. PFEIFER: Objection; form. 2.2 THE WITNESS: I wouldn't say I didn't 23 prepare. I did prepare, and I just can't respond to 24 that case. 25 BY MR. COHEN:
1	Q All right. Moving along to your declaration
2	here, on Page 13, numbered paragraph 27 is in quotes,
3	high power vacuum pump, and underneath that, number 28
4	numbered paragraph, which goes onto Page 14, the second
5	to the last sentence on Page 14 of paragraph 28, and we
6	started you alluded to this before the lunchtime
7	break when we were talking about the 116 patent. In
8	your opinion here, you said the claims of the 116
9	patent do not impose any numerical ranges or other
10	quantitative limitations on the qualitative term high
11	power. Thus the term high power vacuum pump should be
12	construed as a vacuum pump capable of removing liquid
13	and substances from a surface and conveying them to the
14	vacuum tank. Now, we established earlier, correct, on
15	the record that you did not review the file history of
16	the 116 patent; correct?
17	MR. PFEIFER: Objection; form.
18	THE WITNESS: State the question again.
19	BY MR. COHEN:
20	Q The question is you testified earlier that
21	you did not review the file history of the 116
22	patent
23	MR. PFEIFER: Objection; form.
24	BY MR. COHEN:
25	Q in preparing your declaration?

A I said I reviewed it. I reviewed it, and basically it didn't seem relevant to this, to what we're talking about today.

Right. And then earlier you had mentioned 4 0 5 NLB for disclosures of a high pressure pump as well as 6 a high power vacuum pump. And again I'm going to 7 direct your attention to the 116 patent, column 3, starting at line 45 in column 1 -- excuse me -- column 8 9 3, where it says the sump is connected to the vacuum 10 pump by hose 16. The intake of a high power vacuum 11 pump capable of approximately 1100 CFM, cubic feet per 12 minute, is connected to the vacuum tank.

You wrote in your declaration that the 116 patent doesn't impose any other numerical ranges or other qualitative limitations -- excuse me -quantitative limitations for a person of ordinary skill in the art to consider. Isn't that a quantitative limitation?

MR. PFEIFER: Objection; form.

THE WITNESS: It's an example. It's not defining in my opinion. It's an example of what could be used. And, yes, the NLB patent -- excuse me -- the NLB prior art used 1,000 psi. So it's an example. It's not a defining -- I said it earlier value. It's not a defining value.

19

1 BY MR. COHEN.

2 0 So is this part of your declaration inaccurate as well, that the 116 patent does not impose 3 any numerical ranges? 4 5 MR. PFEIFER: Objection; form. 6 THE WITNESS: I see it as an example, just 7 merely an example. 8 BY MR. COHEN: 9 0 So there's no discussion in your proposed 10 definition of a high power vacuum pump about the 11 quantitative limitations that are disclosed in the 12 detailed description of the invention in the 116 13 patent? 14 Objection; form. MR. PFEIFER: 15 THE WITNESS: You mean the quantitative 16 values of 1100 CFM? 17 BY MR. COHEN: 18 Q Yes. 19 No, it doesn't state that. Α 20 So you don't consider that -- so one of 0 ordinary skill in the art wouldn't consider a high 21 2.2 power vacuum pump disclosed approximately 1100 cubic 23 feet per minute as a range of high pressure pumps? 24 MR. PFEIFER: Objection, form. 25 THE WITNESS: I mean high power, it's -- you

1 know, anything above high power is anything above 2 normal capacity and normal strength is the way that I 3 interpreted that's, and that's the opinion that I 4 gave.

5 BY MR. COHEN:

6

Q So what's normal strength?

7 I mean, you know, there's lots of different Α vacuums with lots of different capability. So, you 8 9 know, 1100 CFM is an example of what -- it's limiting. You know, it's an example of what -- it's not a 10 11 defining limitation. And basically, you know, if 1,000 12 CFM was used in the prior art by NLB, that's what they 13 used for stripe removal. This is a cleaning system in claims 1 through 6 and claim 10, the ones we're talking 14 15 about here. All 7 of those claims, 1 through 6 and 10 16 all start with a cleaning system.

17 And my interpretation and opinion in my 18 declaration was stated that -- yeah, it says 1100 CFM, 19 but as a cleaning system, high power is anything above 20 normal strength and capacity. And I didn't interpret 21 it, and my opinion was stated so that I didn't see it 2.2 important to get into the specifics. And if you want to get into the specifics, NLB does specifically state 23 in their prior art, that 1,000 CFM was used. 24

25

Q And again that's not my question. You are

testifying to your opinion on obviousness ahead of my questions, and it's not my question. You testified at the very beginning of this cross-examination, that you removed the bias, so you could be a technical expert?

A Yes.

I'm asking you technical questions. 6 0 You 7 submitted that you as a technical expert in this field would understand what a person of ordinary skill in the 8 9 art would understand. I'm asking you that now. Hiqh 10 pressure, if someone of ordinary skill in the art is 11 reading the 116 patent where it's talking about high 12 power vacuum pumps capable of approximately 1100 cubic 13 feet per minute, is that something a person of ordinary 14 skill in the art would consider high pressure or high 15 power?

16

А

5

Not necessarily.

Q So what would one of ordinary skill in theart consider high power?

19 A Any vacuum that has capability of negative
20 pressure to lift water and whatever type of debris
21 they're trying to lift. That would be high power.

Q So a person of ordinary skill in the art is
reading the 116 patent --

A But you're trying to read it that it's just stripe removal. This is a cleaning system. So when

you clean different surfaces and cleaning different materials, it takes less to lift it. So at 1100 CFM for a stripe removal machine may be needed, but to lift something that's lesser in required capability, you wouldn't use a vacuum so high.

6 Q Okay. So in the 116 patent -- and I'm going 7 to read from different portions here, and then I'll ask 8 a question.

9

A Tell me where you are.

10 We started earlier on column 1, in the field 0 11 of the invention. And in the field of invention, this 12 invention relates to the field high pressure water 13 cleaning devices for highways, runways, parking decks 14 and other hard surfaces. Then throughout the patent 15 and to get into the prior art, the prior art talks 16 about in column 1, starting at line 52, talking about 17 NLB markets a high pressure water jet system for 18 removing paint from pavement under the name StarJet. 19 Are you familiar with that?

A

20

A Yes.

21 Q And if you go into column 2, we have NLB 22 Corporation also has another system marketed under the 23 mark of StripeJet. Are you familiar with that?

A Yes.

25 Q That is a self-propelled tractor with a blast

	Page 114
1	head on the front of the tractor?
2	A Correct.
3	Q And then another stripe removal system is
4	marketed by the Blasters Corporation. Is that you at
5	the time?
6	A Yes.
7	Q And you're familiar obviously with that
8	device?
9	A Yes, I am.
10	Q So this patent is an improvement on those
11	devices that's you're familiar with?
12	MR. PFEIFER: Objection; form.
13	BY MR. COHEN:
14	Q Would you agree with that?
15	A I would not agree with it. I would say that,
16	you know, this technology of Waterblasting
17	Technologies, I would openly say that it is very
18	similar to that of the StarJet and StripeJet technology
19	with striking resemblance.
20	Q So if we're talking about a person of
21	ordinary skill in the art reading the 116 patent
22	A Right.
23	Q is it fair to say that that person would
24	have a knowledge in this area of high pressure coating
25	removals?

Page 115 MR. PFEIFER: Objection; form. 1 2 THE WITNESS: Would have experience and 3 knowledge in that of the StarJet and StripeJet and the Blasters machine? 4 5 BY MR. COHEN: 6 0 Yes. 7 Α Potentially. Or the least the technology involved in 8 0 9 constructing one of those machines? 10 Α If they're in the field for four to five 11 years, they probably would be aware of it, yes. 12 And that's consistent with your opinion of 0 13 what a person of ordinary skill in the art is in your 14 declaration? 15 Α Correct. 16 So moving along in column 2, starting at 0 17 line -- about line 23, summary of the present invention, and it's starts briefly disclosed is a 18 19 cleaning system for removing coatings from a hard 20 surface by high pressure liquid. The system employes a 21 liquid reservoir connected to a high pressure pump for 2.2 directing ultra high pressure water through a blast head mounted on a self-propelled mobile frame. Okay? 23 24 So we're still talking about ultra high pressure 25 throughout the application.

MR. PFEIFER: Object; testifying. 1 2 THE WITNESS: I don't believe they talked 3 about ultra high pressure all the way through the system. 4 5 BY MR. COHEN: Well, it's mentioning ultra high pressure, 6 0 7 and I'm just laying a foundation --Α You said it was mentioned all the way 8 9 through. It's not mentioned all the way through. It's 10 the first place I believe that it's mentioned. 11 All right. When we go into column 3, and 0 12 again we're down in column 3, line 57, the trailer 17 13 is removably attached to the prime mover through a conventional trailer hitch. Mounted on the bed of the 14 15 trailer is a high pressure fluid pump greater than 16 25,000 to 40,000 psi and from 2 to 5 gallons per 17 minute. Would a person of ordinary skill in the art 18 consider that range ultra high pressure? 19 Would they consider 25,000 to 40,000 ultra Α 20 high pressure? 21 0 Yes. 2.2 Α No. 23 So what would a person of ordinary skill of 0 the art according to your declaration define ultra high 24 25 pressure?

Page 116

Page 117 Ultra high pressure is 30,000 to 40,000. 1 Α 2 0 Okay. So how would you quantify 25,000 psi? 3 I would quantify it all as high pressure Α myself, but I mean potentially in the industry, you 4 5 know, it would be discussed as 30,000 to 40,000. 6 0 Okay. 7 Α But it's all high pressure. All of it is considered high pressure water. When somebody talks 8 9 about, you know, this equipment, it's considered a high 10 pressure system. 11 So one of ordinary skill in the art wouldn't 0 12 consider a 1,000 psi system to be within the range 13 disclosed in this patent; is that true? 14 MR. PFEIFER: Objection; form. 15 THE WITNESS: 1,000 psi would not be 16 considered ultra high pressure as a person of ordinary 17 skill in the art. 18 BY MR. COHEN: 19 And the same question for vacuum. I mean 0 20 would somebody of ordinary skill in the art consider 21 something that's drawing 50 cubic feet per minute 2.2 considered high power? 23 Α I would say they would, yes. 24 0 So I mean how low do you have to go when 25 talking about vacuum pumps before it's a low power

1 vacuum pump?

I don't know what that limitation would be. 2 Α 3 I don't know where you would start to say it's a low 4 power vacuum. 5 So in your declaration, you say --0 I think we're only talking about high power 6 Α 7 vacuum, and we just said it was anything above normal or normal capacity or capability is the way I 8 9 interpreted it, and that's the opinion I gave was a 10 high power vacuum was anything above, you know, typical 11 normal. 12 So what would a person of ordinary skill in 0 13 the art consider normal? I don't know, 50 CFM, 100 CFM. 14 Α 15 0 And based on reading that patent, that's your 16 opinion, that that's what one of ordinary skill in the 17 art --18 Yes. А -- would consider normal? 19 0 20 А Yes. 21 And it's correct that you don't discuss that 0 22 analysis at all in your declaration in your proposed claim construction for a high power vacuum pump? 23 24 MR. PFEIFER: Objection; form. 25 THE WITNESS: I don't get into details with

Page 119 what's normal power or high power, into those details, 1 2 no. I talk about high power having a greater than 3 normal strength or capability. BY MR. COHEN: 4 5 So would you agree that as a technical 0 expert, this is intended to be a technical document, a 6 7 technical opinion? Α Well, the technical opinion was based on what 8 9 high power was and not normal power. Right. But you're making a lower limit of 10 0 11 high power normal strength, and now I'm asking --12 Only because you're asking me. Α 13 Exactly, because you put forth a declaration 0 14 as a technical expert. I'm asking you the technicals. 15 You're claiming that you removed the bias from your 16 opinion. And here we were, and I'm asking you, and 17 you're not answering the questions. 18 Α I did answer the question. 19 So what would a person of ordinary skill in 0 20 the art consider normal in light of reading the patent? 21 Objection; asked and answered. MR. PFEIFER: 2.2 THE WITNESS: I already answered the 23 question. BY MR. COHEN: 24 Why wouldn't somebody of ordinary skill in 25 0

the art take into account those numerical ranges and 1 quantitative limitations when doing an analysis of what 2 3 the claimed ranges are? MR. PFEIFER: Objection; form. 4 5 THE WITNESS: I didn't think it was relevant or I would have stated an opinion on it. 6 BY MR. COHEN: 7 You didn't think it was relevant to the 8 0 9 definition you need to draw upon this prior art or --10 Α Not that I would need, but as a person of 11 ordinary skill in the art. 12 So you considered these technical values and 0 13 limitations when you were preparing this report? I read Patent 116. 14 Α 15 And you decided not to give an analysis of 0 16 any of the detailed technical ranges disclosed in the 17 116 patent? 18 А I discuss it here. It says that Patent 116 19 discloses a specific embodiment of having a vacuum pump 20 with an intake capable of approximately 1100 CFM. So 21 it is mentioned. 2.2 0 So what is your basis for making the statement that claims that the 116 patent do not impose 23 any numerical ranges or other quantitative limitations 24 25 on the qualitative term high power?

Page 120

1	MR. PFEIFER: Objection; form.
2	THE WITNESS: It's a cleaning machine. And
3	claims 1 through 6 and 10 all say it's a cleaning
4	machine. And, you know, it has other applications, and
5	lesser capable vacuums can be used. And so we stated
6	it. I stated it, 1100 CFM, but it wasn't a it was
7	an example of the CFM that was used, not a not if it
8	wasn't a defining limitation.
9	BY MR. COHEN:
10	Q And you don't recall reading anything in the
11	file history of the 116 patent that would address these
12	numerical ranges or quantitative limitations of these
13	claims?
14	A I reviewed the claim history, and basically
15	it's you know, again, I read through the 1100 CFM.
16	It was not a it was an example given of a CFM that
17	was used most likely for stripe removal only. And this
18	is a cleaning machine that does other things that
19	require a lesser vacuum shown by other examples of
20	prior art in my declaration.
21	Q So did you contribute all of the technical
22	aspects that made it into your opinion that forms
23	paragraph 28?
24	A It was a collaborative effort.
25	Q And just for record, who collaborated? What

Page 122 other experts collaborated in your technical aspects of 1 2 your declaration? 3 А Just myself and the two attorneys, our two attorneys that are present today. 4 5 All right. I'm going to show you or I'm 0 going to mark Blasters 1002. Exhibit Blasters 1002 is 6 7 currently in front of you. Do you recognize this? А Yes, I do. 8 9 (Blasters Exhibit No. 1002 was so marked for 10 identification.) BY MR. COHEN: 11 12 All right. And this is one of the first 0 13 references that you claim as prior art --14 А Correct. 15 0 -- in your declaration? 16 Α Yes. 17 And what is Jones? Q 18 Α What is Jones? 19 MR. PFEIFER: Objection; form. 20 BY MR. COHEN: 21 So do you have any reason to dispute that 0 2.2 Jones is an artificial turf cleaner that relates to a 23 cleaning apparatus used to clean large fields having 24 artificial turf? 25 No, I wouldn't object to that. А

	Page 123
1	Q And I assume you've reviewed this patent
2	prior to preparing your declaration?
3	A I have.
4	Q And I'll direct your attention to column 2.
5	And just so the record is clear, Blasters 102 (sic) is
6	the United States patent to Jones, and it's Patent
7	Number 3,902,219. And column 2, line 62 well,
8	actually I'll just well, it's what would be about
9	line 57 starting with cold water is supplied to line 11
10	shown in figure 6 from any suitable source on the field
11	being cleaned and is fed through an electrically
12	operated pressure booster pump which builds the
13	pressure of the water to approximately 200 pounds per
14	square inch. Do you see that?
15	A Yes.
16	Q And then this pressurized water is fed
17	through piping to the heater where is it heated to
18	approximately 180 degrees Fahrenheit.
19	MR. PFEIFER: Objection; form.
20	BY MR. COHEN:
21	Q Do you see that?
22	A Yes.
23	Q Now in comparing to the prior art background
24	that's disclosed in the 116 patent, which we discussed
25	earlier including one of your own stripe removal

Page 124 1 systems, is this analogous art to what's disclosed in 2 the 116 patent? 3 Α Yes. Why? 4 0 5 Because it's a utility truck that has a Α tractor. It's a straight truck with a tractor. It has 6 7 a blast head with an articulating link, and it's a cleaning machine that has a vacuum and uses high 8 9 pressure water. 10 0 Okay. 11 So it's similar prior art to the claims in А 12 the 116 patent. 13 0 So a person of ordinary skill in the art in 14 the field in which you're a technical expert, they 15 would be able to remove coatings upon roadways and 16 vulcanized rubber on airport runways using the Jones 17 reference? 18 А The Jones machine is at 200 psi, so no, you 19 wouldn't. They'd have to use an exchange of the NLB 20 system with higher pressure. And so no, you'd have to 21 exchange the pump of NLB to be able to do that. But 2.2 again it's common components that are available on the 23 mark, and it's a rearrangement of those common 24 components. 25 So you're saying that the pump in the Jones

0

1 reference pumping at 200 pounds per square inch is 2 similar components to what is disclosed in the 116 3 patent in the range of a pump that can pump 25 to 4 40,000 psi?

5 А I'm saying it's a positive displacement 6 pump. So it's a positive displacement pump that is in 7 the 116 patent, and it's a positive displacement pump in the NLB patent. And it's simply an exchange of 8 9 commonly known components again from the Jones machine, utilize the NLB machine, and that would give you that 10 11 of the 116 patent.

Q So if a person of ordinary skill in the art was trying to solve the problem of removing vulcanized rubber from an airport runway, for example, they would expect to be able to utilize the Jones reference in combination with a 40,000 psi pump disclosed by NLB?

17

A Yes, they could do that.

18 Q How? What would their motivation to combine 19 those elements be?

20 A The motivation would be to have a better 21 machine to improve the system of that of the Jones.

22 Q Technically speaking how would you expect to 23 mount a 40,000 psi pump onto this Jones referenced 24 tractor?

25

A Well, you wouldn't mount it on the tractor.

You would mount it on the utility truck, the truck 1 2 that's with it. So that's the same pump disclosed here that's 3 0 disclosed in the 116 patent? 4 5 Α It's a positive displacement pump. 6 0 Is it the exact same pump that's disclosed? 7 I can't -- I don't know. Α Well, I mean you're --8 0 9 It's most likely not, no, but neither is the Α 10 NLB pump. But it's not the same pump, but it does 40,000 psi. 11 12 0 So do you not know? 13 Α No, I know. It's probably not the same pump, 14 but they all are positive displacement pumps. So it's 15 an exchange of components from the Jones machine simply 16 rearranging it and putting the pump of that of NLB on 17 it. And the NLB pump is exactly the same pump of that 18 of the 116 patent. 19 MR. COHEN: I'd like to mark this as Blasters 20 1003. 21 (Blasters Exhibit No. 1003 was so marked for 2.2 identification.) BY MR. COHEN: 23 24 0 I've handed you what's been marked as 25 Blasters 1003. It's a U.S. Patent to Breither, Patent

Page 126

Number 3,011,206. Are you familiar with this patent? 1 2 Α Yes, I am. 3 And this is a street sweeper patent? 0 Yes, a cleaning system. 4 Α 5 A patent to a --0 It's a vehicle for cleaning streets. 6 А 7 A vehicle for cleaning streets. Are you 0 8 aware of what pressures a street cleaner discharges its 9 water at? 10 Α Our interest in the -- my interest in the 11 Breither system is the tanks. Simply the Jones machine 12 used the municipal water supply, so the water source at 13 the job site; whereas, Breither was a more mobile 14 portable tank. And it used two tanks of a sump and a 15 reservoir which enables you also to keep the same 16 center of gravity. So our end motivation was to use 17 these tanks on the Jones prime mover truck, the larger 18 service truck. That was our motivation. And why would 19 we do that, to make a more advantageous machine for the 20 application. 21 0 Would you agree that all the components 2.2 disclosed in the 116 patent, the high power vacuum 23 pump, the high pressure pump, are all mounted on the 24 same truck?

25

A No, they are not all mounted on the same

Page 127

1 truck.

Q So the vacuum pump, the water tanks, the high pressure pump, the tractor, they're not all mounted on the same truck?

5 A When you look at the 116 patent, they're not 6 all mounted on the same truck. It's a trailer. The 7 waterblaster is a trailer. So they're not all mounted 8 on the truck.

9 Q Okay. So that's one embodiment. But isn't 10 it also correct that they could all be fit onto one 11 truck is what the specification of the 116 patent says?

12 A Could they all be on one truck; is that what13 you're asking me?

14 Q Yes.

15

A Yes, they could all be on one truck.

Q You just testified that your reason for selecting Breither as a reference was for the water tanks. But my question was, the pump, are you aware of what the pump pressures are and what vacuum would be used in operation of the Breither disclosed machine? A I'm not using the Breither machine for

the -- it does have a vacuum pump and a pump, but it doesn't -- I'm using the NLB pump. It's a combination. It's basically a rearrangement of commonly-known components. So we have the Jones system with the utility tractor to improve, and our motivation for improvement was to use the Breither tank system. So that's what we did. So the pump is the NLB pump,

4 not the Breither pump. Our motivation is to have the5 best possible system.

Q So my question is, are you familiar with what
the pump discharge pressure, operating pressure, of the
Breither reference is?

9 A Yes. I read it. I did read it. But to 10 improve the system, and the motivation was to utilize a 11 higher pressure, and so we did that with -- we 12 accomplished that. I accomplished that in the 13 declaration with the NLB system. But it is a high 14 pressure pump on the system.

Q The Breither pump is a high pressure pump?
A We're not using the Breither high pressure
pump.

Q So for purposes of my question, assuming because you're basing your conclusions on Breither, for example, is prior art, and based on having a high pressure pump based on your proposed definition of high pressure --

23 A Yes.

1

2

3

24 Q -- in which you noted earlier that you did 25 not take any account into the quantitative limits that

Page 129

are articulated in the 116 patent or the 116 file 1 2 history. So assuming that the range is 25,000 to 3 40,000 psi is what a high pressure pump is, does Breither disclose that type of high pressure pump? 4 5 MR. PFEIFER: Objection; form. 6 THE WITNESS: Based on Breither only, if 7 you're asking me does the Breither system run 25,000 to 40,000 psi, the answer is no. That's why to improve 8 9 the system, our motivation to have the best possible 10 system, the motivation was to use the NLB pump. 11 BY MR. COHEN: 12 So you're saying -- so it's your opinion that 0 13 a person of ordinary skill in the art in the field we're talking about, the 116 patent that you're a 14 15 technical expert in, that they would combine Jones, 16 Breither and NLB to come up with the 116 patent? 17 Α Correct. Well, yeah, and there's some more. 18 I mean we have to continue on when you showed me the 19 other prior art example, and then we can talk further 20 about that. But where we are so far in the process 21 with the exhibits you've presented me, that's correct. 2.2 Other than you haven't shown me the NLB brochures yet. 23 I mean I'll show you NLB brochure. 0 24 MR. COHEN: This is going to be marked 25 Blasters 1006.

Page 131 (Blasters Exhibit No. 1006 was so marked for 1 identification.) 2 BY MR. COHEN: 3 Okay. I've showed you what's been marked as 4 0 5 Blasters 1006. 6 А Yes. 7 And this is the NLB reference that you've 0 been referencing --8 9 Α Correct. 10 -- all day; correct? 0 11 Correct. Α 12 All right. So I'm asking you as a technical 0 13 expert, specifically what would motivate you to combine Jones, Breither and the NLB reference to arrive at your 14 conclusions based on that and the 116 patent? 15 16 MR. PFEIFER: Objection; form. 17 THE WITNESS: What motivated me, to build the 18 best system for the objective. 19 BY MR. COHEN: 20 So technically speaking, what would you have 0 21 to do to combine Jones and Breither, for example, just in improving the system as you were saying? 2.2 To improve the system, our motivation was to 23 Α 24 utilize the -- so we didn't have to utilize the 25 municipal supply for the water. The water tanks on

Breither, I utilized those tanks. I utilized those
 tanks for the system to make it mobile, in essence,
 more mobile and self-contained compared to that of
 Jones.

5 Q And how would you interchange the pumps, for 6 example?

A Well, now we're talking about the pumps.
We're talking about utilizing the NLB pump. Basically
you'd have to use a larger chassis of that of Jones.
You'd have to use a larger chassis to accommodate the
pump.

12

13

Q Okay.

A To simply lengthen the bed.

All right. So looking at the Jones 14 0 15 reference, and we're in your declaration on Page 36. 16 And in number 2, it says claim 1. And let's take this 17 part A, a cleaning system, this portion of the claim. 18 A cleaning system for removing coatings from a hard 19 surface by high pressure liquid. So assuming that 20 coatings, we're talking about coatings or markings on 21 airport runways, roads surfaces as well as, for 2.2 example, vulcanized rubber, and those hard surfaces are 23 asphalt or concrete, or they could be an aircraft 24 carrier deck was another example you gave this morning by a high pressure liquid, and assuming a person of 25

ordinary skill reading the 116 patent is the range of 2 25,000 to 40,000 psi, how would Jones be configured to 3 accomplish that portion of the claim?

MR. PFEIFER: Objection; form.

5 THE WITNESS: Well, first of all, the 116 patent is a cleaning machine. See, you keep going back 6 7 to stripe removal, yet claims 1 through 6 and 10 all talk about a cleaning system. And so definitely 8 9 Jones is a cleaning system. To improve the cleaning 10 system to do potentially stripe removal, you use 11 commonly-known components and prior part, in this case 12 that of NLB, to up the pressure. So if you're talking 13 about pavement marking removal, then you would have --14 if you're talking about cleaning and coatings, the 15 Jones machine does the job. If you're talking about 16 markings removal, which is not part of claim 1 through 17 6 and 10, then you would need to -- we would need to basically -- it would motivate us to use the NLB pump 18 19 to go to higher pressures.

20 BY MR. COHEN:

4

21 Q So you're a technical expert in removing 22 coatings from surfaces; correct?

23 A Correct.

Q And I'm asking you about what a person of ordinary skill in the art in the field that you're an

1	expert in. And you've put forth this claim, and you
2	decided to argue a legal position here that this just
3	means cleaning systems. I'm asking you a specific
4	technical question.
5	A It's not a legal position. It's a person of
6	ordinary skill in the art. It's not a legal position.
7	Q I asked you a technical question just now,
8	assuming coatings, hard surface and high pressure
9	liquid means all the things we've been talking about
10	all day long relating to stripe removal in the field of
11	your business and expertise.
12	A Okay.
13	Q Would the Jones reference be useful for that,
14	and you answered no.
15	A To answer so hold on. So you're saying
16	that I just want to make sure I understand the
17	question you're asking. If you're referring to
18	coatings as a pavement marking
19	Q Yes.
20	A and you're asking me would the Jones
21	machine be suitable to take off pavement markings; is
22	that what you're asking me?
23	Q Yes.
24	A The answer is no, it is not. It's a turf
25	cleaning machine.

Page 135 Okay. And for the Breither machine, the same 1 0 hypothetical. Would that be suitable for removing 2 coatings based on that definition --3 MR. PFEIFER: Objection; form. 4 5 BY MR. COHEN: -- in the art area that we've been talking 6 0 7 about here all day? As the Jones machine stands and as the 8 А 9 Breither machine stands, no, they are not pavement 10 marking stripe removal systems. 11 Okay. Now my technical question. I'm not 0 12 asking you about cleaning systems and your legal 13 opinion. I'm asking your technical opinion here. How would a person of ordinary skill in the art 14 15 specifically modify Jones in combination with Breither 16 in combination with NLB to arrive at your conclusion that one of ordinary skill in the art could recreate 17 the 116 patent by looking at these three references? 18 19 MR. PFEIFER: Objection; form. 20 THE WITNESS: A person in the ordinary skill 21 of the art would not want to recreate the wheel. This 2.2 is commonly-known components on the market. It's very straightforward. There's benefits in each one of those 23 systems. And in the end, our motivation would be to 24 have a better system. So somebody that's a person of 25

Veritext Legal Solutions

Page 136 the ordinary skill in the art would be smart enough not 1 2 to start from scratch. All these components are 3 already there. Why not utilize those components that are commonly known in the industry. So it would be 4 5 very simple for them to do that, and it would be straightforward and obvious for them to do that. 6 BY MR. COHEN: 7 Figure 6 in the Jones drawings. 8 0 9 Α Oh, here it is. 10 For example, that drawing is a visual Ο 11 representation, and you see there's pumps labeled on 12 that system? 13 Δ Yes. 14 And there's pump 23 which we talked about 0 15 earlier pumps at 200 psi. 16 Α Uh-huh. 17 How big would you expect that pump to be on a 0 18 system like this? 19 I don't know. I mean it's a good size pump, Α 20 probably about roughly the same size as a 40,000 psi pump, a very similar size. It's pumping more water, 21 2.2 more volume. 23 And what are you basing that on? 0 24 Objection; form. MR. PFEIFER: 25 I don't know exactly what size THE WITNESS:

1 the pump is. I mean I don't know the size of the 2 pump. It's hard to tell from a plan view of this, and 3 I don't think it's all to scale. I don't think this is 4 all to scale. It's a plan view, so it's hard to tell 5 the exact size of the pump.

6 BY MR. COHEN:

Q What would you expect a turf cleaner tooutput gallons per minute on discharge?

9 A It's got about 19 nozzles. I don't know. It 10 wasn't in the patent on how many gallons a minute each 11 nozzle does.

12 Q Well, would you be familiar with what the 13 exit velocity might be on these nozzles on this turf 14 cleaner?

15 A No, I don't. I don't know what the exit16 velocity would be.

17 Q Are you familiar with what the exit 18 velocities would be on the discharge end of an NLB 19 pump?

A They're much higher than that of the Jones nozzle. I don't know the -- I mean I know there is a formula, and I don't have it in front of me. But, you know, I'm familiar with it. It's a certain speed that the jet exits.

25 Q So technically speaking if you were trying

Page 137

Page 138 to -- if a person of ordinary skill in the art was 1 2 trying to build a machine to remove coatings, meaning the coatings we've been talking about all day in your 3 field of expertise, why would they expect to be able to 4 5 drop the NLB pump into this Jones reference? MR. PFEIFER: Objection; form. 6 7 BY MR. COHEN: I mean what kind of modifications would you 8 0 9 have to make to fit the NLB pump --You'd have to lengthen the bed of that of 10 Α 11 Jones and rearrange the components. It's hard to tell 12 with a plan view like that. But you'd have to 13 rearrange the components and make it longer to 14 accommodate the pump. 15 0 How much horsepower would you need to fuel a 16 pump that pumps 200 psi? 17 Α It depends on how many gallons a minute it 18 is. 19 Well, I mean you're a technical expert. 0 20 You're saying that a person of ordinary skill in the 21 art in your field that you're an expert would drop the 2.2 NLB pump into the Jones reference. So I'm asking you the technicals. Well, how does the Jones reference 23 24 operate? Why would a person of ordinary skill in the art expect to be able to drop the NLB pump into this 25

Veritext Legal Solutions

Page 139 and gain success? Like what are the modifications to 1 2 complete it? 3 А It would be the complete NLB pump. Objection; form. 4 MR. PFEIFER: 5 THE WITNESS: It would be the complete NLB 6 pump that's on there. 7 BY MR. COHEN: How about big is this turf cleaner in your 8 0 9 estimation? 10 Α It's not drawn to scale. I can't tell. Let 11 me go back to the --12 Well, are you familiar with turf cleaners? 0 13 Α Let me go back to the pressure and flow. You 14 know, I'm the expert here. So basically to get 15 horsepower requirements, it's the pressure times the 16 GPM divided by a constant, which is 17, 14, and then 17 you typically add about 10 percent above that for 18 required horsepower. So that's how you would drive 19 that. But I don't know the exact flow rate of the 20 nozzles, but we could use the complete NLB system. That's our motivation is to use the complete NLB system 21 2.2 to run the jets, to power the jets. 23 And what exit velocity would you expect the 0 24 artificial turf cleaning to be discharging at? 25 MR. PFEIFER: Objection; form.

Page 140 THE WITNESS: I don't know the answer to 1 2 that. I mean very few people in the industry have the answer to that. It would be less than that of the NLB 3 4 system. 5 BY MR. COHEN: So are you familiar with the requirements of 6 0 7 cleaning artificial turf? MR. PFEIFER: Objection; form. 8 9 THE WITNESS: The requirements? 10 BY MR. COHEN: 11 Yeah. 0 12 I mean I'm familiar with it through this Α 13 prior art reference. So I'd answer it that way. 14 Okay. So you combined the Breither 0 15 reference. And you testified earlier that you combined 16 Breither, so that you could draw on the liquid 17 reservoir connected to a high pressure pump? 18 А Correct. 19 And I'm going to just go to Page 40 of your 0 20 declaration, and in paragraph 74 -- and before I ask 21 about paragraph 74, what is the discharge pressure of 2.2 the pump in the Breither reference? What's your 23 technical expertise with street sweepers like the kind 24 disclosed in Breither? 25 MR. PFEIFER: Objection; form.

Page 141 1 THE WITNESS: I mean my motivation was not to 2 use the Breither pump. My motivation was to use the 3 NLB pump for cleaning and for higher pressure work. BY MR. COHEN: 4 5 You testified previously that you removed the 0 bias, so you could be a technical expert? 6 I did. 7 Α And I'm asking you as a technical expert, are 8 0 9 you familiar with what type of discharge pressures the 10 pumps in the Breither system operate at? 11 MR. PFEIFER: Objection; form. 12 I don't recall the pressure of THE WITNESS: 13 the Breither system, but it didn't motivate me. So we 14 used the pressure of the NLB system to propel the 15 better system, the combined system. 16 BY MR. COHEN: 17 Are you familiar with street sweepers like 0 what's disclosed in Breither? 18 19 Α Yes. 20 Are you familiar with what pressures they 0 21 discharge at? 2.2 Α All different pressures. It depends on, you 23 know, what they're cleaning and what they're doing. 24 There's lots of different brands of street sweepers. There's lots of different applications. 25

Page 142 Would you agree that Breither is disclosing a 1 0 2 system, an improved system for cleaning dirt off of the 3 street? It's one of the things it does. 4 А 5 So are you familiar with what pressures a 0 street sweeper that is cleaning dirt like in the 6 7 Breither disclosure here operate at? А A few thousand psi. 8 9 A few thousand psi? So you're saying that 0 10 the discharge nozzle --11 I don't recall the --Δ 12 -- that sprays the water onto the dirt comes 0 13 out generally at a thousand psi? 14 I don't recall the pressure on the Breither Α 15 patent because again I was motivated to use the NLB 16 patent. 17 I'm asking you a technical question. Are you 0 18 familiar with what discharge pressures come out of the 19 nozzles on street sweepers like Breither? 20 Α They're high pressure. I don't know exactly 21 what the pressure is. 2.2 0 High pressure by your convenient definition 23 of anything over ambient or high pressure based on 24 what's disclosed in the 116 patent in this field of art over 25,000 psi or --25

Page 143 MR. PFEIFER: Objection; form. 1 2 THE WITNESS: The Breither patent would not 3 run at 25 to 40,000 psi. BY MR. COHEN: 4 5 It would not? 0 No, it would not. 6 Α 7 Okay. So my question is, how would one of 0 ordinary skill in the art expect to connect the NLB 8 9 pump to the Breither truck? 10 MR. PFEIFER: Objection; form. 11 THE WITNESS: They are loaded on the --12 they're loaded on the Jones system. It's a combination 13 of the Jones system. We're using the water source of 14 the Breither, of the Breither machine, and the pump 15 of that of NLB. And basically the motivation was to 16 combine the prior art that's out there and 17 commonly-known components, rearrange them, and build 18 the best system. 19 BY MR. COHEN: 20 So how many horsepower is required to pump 0 21 the Jones reference? 2.2 Α It's electric. It's an electric system. 23 Okay. Would you expect to be able to run an 0 NLB pump at 40,000 psi using electric? 24 25 А It can be done, yes.
1	Q How? I mean are we talking within the
2	confines of Jones, Breither and NLB? How could you
3	A That's a diesel. That system, that NLB
4	system is a diesel-driven system, the NLB system I'm
5	referring to on Exhibit 106 (sic).
6	Q Why would a person of ordinary skill in the
7	art in the field that the 116 patent is directed to of
8	removing coatings, vulcanized rubber, those things off
9	of roadways and airport runways put a 40,000 psi pump
10	on an artificial turf cleaner?
11	A We're combining the technologies.
12	Q How?
13	A By lengthening the bed and rearranging the
14	components. They're all things that are over the
15	counter and common components. So they're rearranging
16	them to build what we perceive is to be the best
17	system.
18	Q So you're rearranging in hindsight looking at
19	the 116 patent, or how would you like why would a
20	person of ordinary skill in the art, and if we look at
21	the first drawing on Page 1 of the Jones patent, the
22	219 patent, that looks like a tractor that's trailering
23	a turf cleaning system. Would you agree with that?
24	MR. PFEIFER: Objection; form.
25	THE WITNESS: It's trailering a system with a

Page 145 1 high pressure nozzle and a high pressure or high power vacuum with a vacuum debris hose. That's what it looks 2 3 like to me. BY MR. COHEN: 4 5 So with high pressure being 25,000 to 40,000 0 psi, that's what's in Jones? 6 Jones is a 200 psi system. 7 Α No. So it's relatively low pressure? 8 0 It's high pressure. 9 Α 10 By your definition it's high pressure? 0 11 By my definition, yes. Α 12 Okay. So in paragraph 74, your opinion is 0 13 even if the term high pressure pump is construed to 14 mean a pressure between 25 and 40,000 psi, this limitation would still have been obvious in the mind of 15 16 a person of ordinary skill in the art. As previously 17 explained, NLB discloses a cleaning system adapted to 18 discharge fluid at 40,000 psi. There is nothing 19 uniquely difficult in achieving such a pressure. 20 Indeed it is simply achieved by substituting an 21 existing pump for a more powerful pump. 2.2 Α Correct. Isn't it true that there is a multitude of 23 0 different factors that would need to be designed in 24 order to combine Jones, Breither and NLB to arrive at 25

Page 146 what's disclosed in the 116 patent? 1 2 MR. PFEIFER: Objection; form. 3 THE WITNESS: No, I don't see it as that difficult, no, not as a person of ordinary skill in the 4 5 art, no. 6 BY MR. COHEN: 7 So what sort of horsepower would be required 0 to run the NLB pump at 40,000 psi? 8 9 Α This system? 10 Yeah, for removing coatings? 0 11 The system in the 1006? Α 12 Yes. 0 13 Α If you're only asking me to remove pavement 14 markings like the brochure says, if you're only asking 15 me that, that particular machine is 175 horsepower. 16 But if you're asking me what does it take to clean like 17 the 116 patent says in claims 1 through 6 and claim 10, 18 then it could be a much lower, lower pressure and lower 19 horsepower requirement to clean it. 20 Well, I'm asking you -- and that's not my Q 21 question. And you're the technical expert, and I'm 2.2 asking you technical questions. 23 Α Right. 24 0 And you're not answering technically. I did answer your -- yes, I did answer your 25 Α

Veritext Legal Solutions

Page 147 technical question. You asked me what horsepower does 1 2 it take to drive the NLB system on 1006. You asked me 3 that question, and I said 175 horsepower. So then the Jones reference, if you're going 4 0 5 to put an NLB pump on there, why would a person of ordinary skill in the art put a 40,000 psi pump on the 6 7 Jones reference? Because it gets the benefits of some of the 8 Α 9 other components in the Jones system. MR. PFEIFER: We've been going for about an 10 11 hour. Can we take a quick break now? 12 MR. COHEN: Sure. 13 (Recess taken from 2:55 p.m. to 3:00 p.m.) BY MR. COHEN: 14 15 0 So back to your declaration, which is 16 Blasters Exhibit 1009. 17 Α Yes. 18 On Page 45, paragraph 81, for example, it Ο says because the cleaning medium is at a pressure above 19 20 the ambient atmospheric pressure, the high pressure 21 nozzle and the high pressure liquid limitations of 2.2 claim 1 of the 116 patent is taught in Jones; therefore, Jones teaches said blast head having at 23 least one high pressure nozzle for delivering high 24 pressure liquid onto a hard surface. 25

305-376-8800

So you would agree that if the term high 1 2 pressure was construed to mean in a range of 25,000 to 40,000 psi, that Jones would not disclose high 3 pressure? 4 5 State the question again. Yeah, go ahead and Α 6 state it one more time. 7 I mean your opinion is based on your 0 definition of high pressure being anything above 8 ambient? 9 10 Α Correct. 11 So if, in fact, what high pressure -- if, in 0 12 fact, high pressure were to mean in the range between 13 25,000 to 40,000 psi, then Jones does not teach high 14 pressure; would that be correct? 15 А But I don't call high pressure 25 to 40,000 16 psi. 17 I understand that, but I'm asking you as a 0 18 technical expert. If that were, in fact, to be the 19 range, then Jones wouldn't disclose high pressure? 20 А If the assumption was that high pressure is 21 only 25,000 to 40,000 psi, Jones may still offer it as 2.2 high pressure. He could still say it's high pressure. 23 He could still state that his system is high pressure. 24 I'm asking you as a technical expert in this 0 area, if the definition is 25 to 40,000 psi, would you 25

1 consider Jones high pressure?

2	A If the definition you're saying the
3	definition of high pressure is 25,000 to 40,000. I'm
4	saying that's not high pressure. But with that in
5	mind, if you're saying 25,000 to 40,000 is high
6	pressure, Jones could have written his patent to say
7	high pressure because in his mind, it's still high
8	pressure. It's kind of construing it here. You're
9	construing it to your advantage here.
10	Q No. You just testified what's in Jones'
11	mind, and the question is not directed to what's in
12	Jones' mind. And I'm not sure how you would know
13	what's in Jones' mind?
14	A Right.
15	Q I'm asking you about your technical opinion
16	where as we discussed earlier
17	A As a technical individual
18	Q Excuse me. Let me finish the question
19	first.
20	A from a person with ordinary skill of the
21	arts
22	Q Excuse me.
23	A Go ahead.
24	Q It would be a lot clear on the record if I
25	ask a question first and then you answer it.

1	A Okay.
2	Q I'm asking about your opinion.
3	A Yes.
4	Q And I'm disputing your opinion going back to
5	what we discussed in both talking about high power
6	vacuum as well as high pressure
7	A Okay.
8	Q that you didn't consider the ranges in
9	your opinion in coming up with the definition.
10	A Okay.
11	Q So I'm saying hypothetically assuming that
12	your definition is inaccurate to what a person of
13	ordinary skill in the art would consider, if we're
14	talking high pressure is between the range of 25,000 to
15	40,000 psi, would that be taught by Jones as high
16	pressure? Is it fair to say that Jones is not high
17	pressure in that area?
18	MR. PFEIFER: Objection; form.
19	THE WITNESS: I don't think there's you
20	know, as a person of ordinary skill in the arts, I mean
21	it's you're saying if the statement that atmospheric
22	pressure is not considered high pressure, and you're
23	stating that 25,000 to 40,000 psi is considered high
24	pressure by definition industry-wide, you know, I still
25	can't say that Jones wouldn't there's no governing

Veritext Legal Solutions

_	
1	body that determines high pressure, low pressure. You
2	know, Jones considers his machine to be high pressure,
3	so he patented that and said it was high pressure. So
4	I can't answer your question as a person of the skill
5	in the art to say that he wouldn't have taught high
6	pressure. I can't say that. He taught high pressure,
7	and that's what it is. It's on the record in the
8	patent as high pressure. So I can't comment.
9	BY MR. COHEN:
10	Q The Jones is teaching high pressure
11	A Yes.
12	Q is based on your definition of that?
13	A It's a high pressure system. It's high
14	pressure liquid. It's a high pressure system by our
15	definition, by my definition.
16	Q So then did you contribute the technical
17	analysis that paragraph 81 relies on?
18	A As I said again, it was a collaborative
19	effort between myself and our two attorneys. That's
20	it.
21	Q So did you make the determination that the
22	Jones reference discloses high pressure, or is that
23	someone else?
24	A We did.
25	Q Was it you or was it someone else?

		Page 152
1	А	It was a collaborative effort.
2	Q	So there's more than one expert that
3	contribute	ed technical data to your declaration?
4	А	Correct. It was a collaborative effort.
5	Q	But yet you're the only expert that signed
6	your expe	rt declaration?
7	А	Correct.
8	Q	How long have the other contributing experts
9	in your de	eclaration been working in your field?
10	A	They're not in our field.
11	Q	But they're experts in it?
12	A	They didn't sign as the expert. I signed as
13	the expert	<b>.</b>
14	Q	Right. And my question is directed to not
15	what your	lawyers' legal theories are, but this is a
16	technical	declaration.
17	А	Yes.
18	Q	So everything in here is a technical
19	contribut	ion by you. Do you agree with that?
20	А	Yes.
21	Q	So when I ask you then did you contribute all
22	the techn:	ical components to paragraph 81, for example,
23	and you sa	ay, no, it's a collaborative effort, then who
24	wrote this	s paragraph?
25	A	I wrote it. It was a collaborative effort.

I wrote it, and I basically declared it as my declaration. So, yes, we looked at the prior art that was out there in a collaborative effort form, and myself as the expert person of skill, of ordinary skill in the art, I clearly qualify for that. I wrote the declaration. I signed it as the expert.

7 So in your proposed definition, for example, 0 of high pressure, you don't mention any quantitative 8 9 limits. So that enables you to decide that Jones' high 10 pressure for your purposes. But in your conclusion, 11 you hedge, and you say, well, even if the term high 12 pressure does mean between 25 and 40,000 psi, it would 13 still be obvious.

A You said that the -- you said that the pressure, the high press was 25,000 to 40,000. You said that. You said if we make the assumption that it is, is it accurate to say that -- if we make the assumption that 25,000 to 40,000 psi is high pressure, then it's high pressure, and I said yes, if we make that assumption, then it is.

Q Right. And in posing the question hypothetically in that term, I mean you do admit that it takes into account that you factored out what the specification of the patent says technically, and that you didn't make any reference to the technical

specification in the file history; is that correct? 1 2 MR. PFEIFER: Objection; form. The 25,000 to 40,000 psi is 3 THE WITNESS: declared in the declaration on Page 45. 4 5 BY MR. COHEN: But it didn't make it into your definition of 6 0 7 what high pressure would be. And referring you back to that definition, for example, you're saying that 8 9 without providing any quantitative limits or ranges on 10 the qualitative term of high, a POSA would understand 11 that the claimed system is any cleaning system 12 employing a high pressure -- a pressure higher than 13 atmospheric pressure. What I'm saying is you're sparring with me over posing questions noting that you 14 15 did not include that in your analysis of where these 16 limits are mentioned in both the patent and the file 17 history. So assuming that those are considered and 18 that is a range, then Jones would not be high 19 pressure --20 MR. PFEIFER: Objection; testimony. 21 BY MR. COHEN: 2.2 0 -- correct? Objection; form. 23 MR. PFEIFER: 24 THE WITNESS: Yeah. I maintain that this is a cleaning system; that the 116 patent is a cleaning 25

Page 155 system. You know, I show the 25,000 to 40,000 psi. 1 2 Maybe I didn't define it. What page are you on? BY MR. COHEN: 3 45. 4 0 5 Α I mean for the definition. Oh, the definition? 6 0 7 Page 10? Α It's 10. 8 0 9 Α Yeah. 10 And it spills onto page 11. And without 0 11 providing any quantitative limits or ranges is the 12 sentence which I think is in the record numerous 13 times. 14 Is that a question? MR. PFEIFER: 15 BY MR. COHEN: 16 So you come up with a definition based on the 0 17 fact that there's no quantitative limits or ranges 18 disclosed, yet you do note them conveniently after you 19 give a broad definition of high pressure, and then 20 you're adding what is actually a high pressure pump to 21 a turf cleaner. And I'm asking you as a technical 2.2 expert, how would somebody in your field expect to drop 23 the NLB pump into the Jones reference and expect 24 success? 25 Objection; form. MR. PFEIFER:

Because it could be done. 1 THE WITNESS: Ι 2 mean you can lengthen the bed of that of Jones and rely 3 on the NLB pump. It can be done. BY MR. COHEN: 4 5 I mean I agree with you that it can be done. 0 6 It's disclosed in U.S. Patent 7,255,116. But I'm 7 asking you not going back and looking for a parts list in hindsight. I'm asking you what would an expert in 8 9 your field's motivation be to combine Jones with NLB 10 and how would you do it? 11 MR. PFEIFER: Objection; form. 12 BY MR. COHEN: 13 0 Let's talk about some of the technicals like, 14 okay, well, you could drop a high pressure pump into 15 Jones. What specifically would you modify on Jones? 16 Well, the technology is out there to be able А

17 to do it. It's commonly-known components that are on 18 the market. Instead of starting from scratch, it was 19 obvious to combine the prior art, the prior art 20 techniques that were out there.

21 Q How would you repower Jones, for example, to 22 handle the NLB pump?

A We just used the complete system of that of the NLB. I just used the NLB pump with the diesel engine. That's how I would power it is with the same

Page 156

Page 157 diesel engine that NLB uses. And you basically just 1 2 have a longer chassis, and you mount it that way. 3 You just have a longer chassis, and you mount 0 a 40,000 psi pump in place of a 200 psi pump? 4 5 Α Correct. And the turf cleaner in Jones runs off of a 6 0 7 small electric generator. And what would you anticipate the horsepower of the truck in the NLB 8 9 system would need? 10 Α I answered that already. The NLB -- are you 11 talking about the waterblaster? 12 0 Yes. 13 Α 175 horsepower. 14 Just to run the pump? 0 15 Α Yes. 16 And what about the vacuum system? 0 17 30 horsepower. It's a very small vacuum. Α And what about an 1100 CFM? 18 Q 19 30 horsepower. Α 20 30 horsepower? Q 21 А Yeah. 2.2 Okay. So again I don't believe you testified 0 23 maybe, and correct me if I'm wrong, that you knew what 24 the exit velocities of the nozzles were to clean turf? 25 No, I don't know. I also don't know the exit А

velocity, you know, in high pressure either, what the 1 exit velocity is. And I don't think it's something 2 3 that is commonly known in the industry. So for coating removals in the area of art 4 0 5 that we're talking about being epoxies and line stripes and vulcanized rubber, how would you configure the 6 7 nozzles on one of those systems? What type of exit velocities and flows would you anticipate? 8 9 MR. PFEIFER: Objection; form. 10 THE WITNESS: I don't know what is the exit 11 velocity, but, you know, again we talked about it 12 earlier. It depends on, you know, what you're trying 13 to take off. Is it a coating? You know, is it 14 something that's softer that would require a wider 15 cleaning bar, a narrower cleaning bar and how many jets 16 you run. There's a lot of variations on how that is. 17 That's a very broad open question. BY MR. COHEN: 18 19 Would you expect the way in Blasters 1006 0 20 exhibit, the NLB reference is configured? 21 Α Yes. 2.2 And again you didn't seem to know what sort 0 of nozzle diameters would be employed earlier. 23 24 Well, it's not that I don't know. It's an Α open-ended question. I don't know -- I don't know 25

1	because I don't know how wide the bar is. I don't know
2	what the application you're trying to approach, what
3	you're trying to do. So there's a lot of different
4	variations, and that's very technical. But you have to
5	specifically say I'm trying to do this, so I would use
6	X number of jets. I would try to use you know, it's
7	a seven thousandth jet. It's a ten thousandth jet.
8	It's an eleven thousandth jet. I know exactly what I'm
9	talking about with that, but the question you're asking
10	me is too broad for me to give you a specific answer.
11	Q Well, I will give some leeway to answer
12	because I'm not asking a broad question. Just ballpark
13	it. What type of nozzle diameters and I'm not
14	pinpointing you to a specific exit velocity of the
15	nozzle. But are we talking about like a minuscule
16	opening like a thousandth or three or four thousandth
17	of an inch and some ultra high velocity?
18	A Yes. I mean the velocity excuse me the
19	orifice sizes for it. Now, let's only talk about
20	pavement marking removal. If we're talking about
21	pavement marking removal, the jet size could be seven
22	thousandth of an inch, eight thousandth of an inch.
23	The biggest jets may go up to fourteen or fifteen
24	thousandth of an inch, but only for pavement marking
25	removal. But when we go back to what the patent is on

116 per claims 1 through 6 and claim 10, it's a
cleaning machine. So you would use much larger jets
and much lower pressures to do cleanings like that. So
again it's still hard for me to say, but I gave you a
good range of what size.

6 Q Well, in the configuration you just talked 7 about --

A Yes.

8

9 Q -- would you anticipate that that discharge 10 could cut concrete or pit concrete, or if you kept it 11 in one spot, that it ultimately would --

12 A I mean if you kept it in one spot and you 13 kept it rotating and created, you know, maximum dwell 14 time, you could etch into the surface. But that's 15 absolutely not the requirement here. You want to not 16 do that.

Q But that configuration could. And isn't it true that the reason that you don't cut the concrete or asphalt or you keep it to a minimum is because the trucks are configured to discharge and move and vacuum at a certain rate, so that you just remove the coating and not the underlying substrate as you called it earlier; is that correct?

A It's a combination of all types of different things. It's your head rotation speed. It's your jet 1 configuration. It's your forward movement. It's the 2 width of your bar. There's a lot of variations that 3 have to do with whether you cut into the substrate or 4 not.

5 Q But the raw equipment could cut into the 6 substrate if those parameters weren't set in place 7 correctly; is that right?

8 A They could if you just sat in one spot and 9 just kept eating it.

10 Q All right. And would you expect a pump 11 discharging at 200 psi to be able to have the same 12 cutting ability as a 40,000 psi pump?

A No.

13

17

14 Q So what would you expect -- the configuration 15 we were just talking about for coating removals, 16 pavement marking removals --

A Okay.

18 Q -- if you were to take a pass across a field 19 with artificial turf, what would that machine do to the 20 turf?

21 A

The NLB system?

22 Q Yes.

A Well, you wouldn't run it that high. Youwould throttle it down.

25 Q Well, why would you build an NLB machine to

1 clean turf?

2 A You wouldn't build an NLB machine to clean 3 turf.

Q Right.

Right.

5 A You want to use the right pressure for the 6 right application.

Q

4

7

So you want to throttle your system up or 8 Α 9 throttle your system down. We're not trying to use 10 the -- I'm not trying to use the Jones system without 11 the introduction of the NLB pump to take stripes off. 12 And you wouldn't want to use the NLB system to clean 13 turf. It's basically saying they're both cleaning 14 systems. And my motivation was to basically make the 15 best system by combining the best components that are 16 commonly known on the market and integrate them 17 together to have the best system. And that's what I So the prior art was there. It was obvious. 18 did. You 19 know, I was motivated to build it that way, and we did.

20 Q So you've built a system that's similar to 21 the NLB reference that we're talking about?

A Yes.

Q And it's your testimony that you started with a truck like disclosed in Jones, a system disclosed in Jones for cleaning turf? That's the origin of where

2.2

1	you began experimenting to create the truck that you're
2	employing today for pavement marking removal?
3	MR. PFEIFER: Objection; form.
4	THE WITNESS: It has some similarities. I
5	didn't buy a turf cleaner and, you now, buy an NLB
6	waterblaster if that's what you're asking to do that.
7	The prior art was out there, and it helped you know,
8	all of them had their benefits, and that motivated me
9	to look at that and build up the best system. And
10	that's what I did.
11	BY MR. COHEN:
12	Q Okay.
13	A So I did not own a turf cleaning machine.
14	Q So as a technical expert, you're building a
15	machine for pavement marking removal, and you have
16	experience in building machines for pavement marking
17	removal; correct?
18	A Correct.
19	Q And you would consider in building a machine
20	for pavement marking removal, that some of the terms of
21	art like high pressure would be anything above
22	atmospheric?
23	MR. PFEIFER: Objection; asked and answered.
24	THE WITNESS: If I'm selling a machine to do
25	stripe removal, I wouldn't even refer to the pressure

1 as high pressure or ultra high pressure. I would 2 just -- you know, I would just basically state the 3 pressure. BY MR. COHEN: 4 5 Okay. So would you agree that the 116 patent 0 embodies a machine that is marketed and sold by 6 7 Waterblasting Technologies; is that accurate? Just one second. 8 Α

MR. PFEIFER: Objection; scope; relevance.

10 THE WITNESS: See, here's an example of the 11 statement that I just made. It just says 40,000 psi. 12 It doesn't say ultra high pressure. It just says 13 40,000 psi. It doesn't say high pressure, and it 14 doesn't say -- I'm noting Exhibit 1006, the NLB 15 brochure. It doesn't say ultra high pressure. It just 16 says 40,000 psi. So what was your other question? 17 BY MR. COHEN:

18 And my question related to that. Would 0 19 somebody of ordinary skill in the art consider that 20 high pressure?

21 Α They could. I mean they could consider it. 2.2 You know, I consider that to be high pressure, yes.

So then in relation to that sort of pump of 23 0 24 40,000 psi being high pressure, then in relation to a pump pumping 200 psi, relatively speaking the 200 psi 25

9

1 pump discharge is not high pressure? 2 MR. PFEIFER: Objection; testimonial. 3 THE WITNESS: Well, I'll tell you. You know, here's another way to look at it. You can cut your 4 5 finger, cut a hole in your finger with 100 psi. So, 6 yeah, 200 psi is high pressure. It could hurt you. 7 So, yeah, I would consider 100 psi to be high pressure because if I took a jet and asked you if I could take a 8 9 nozzle and shoot your hand with it, would you allow me 10 to do it, and you probably wouldn't want me to do that 11 because it would penetrate your skin and hurt you. So 12 I would consider 100 psi to be high pressure. But 13 again what I go back to is this machine in the 116 14 patent is a cleaning machine. It is not just a stripe 15 removal, pavement marking removal machine. It is a 16 cleaning machine. And the other machines that I 17 reference in my prior art are cleaning machines as 18 well. 19 BY MR. COHEN: 20 Q Okay. 21 А And, yes, high pressure is anything -- you 2.2 know, 100 psi is high pressure in my opinion, and 23 that's what I put in my declaration, yes. 24 Is it fair to say that the 116 patent 0 embodies a machine that is being manufactured, marketed 25

and sold by Waterblasting Technologies? Would you 1 2 agree with that? MR. PFEIFER: 3 Objection; scope. Would I agree that the machine 4 THE WITNESS: 5 in 116 --MR. LYTVYN: Can we go off the record for a 6 7 second. (Discussion off the record.) 8 9 (Back on the record.) 10 MR. COHEN: I'd rather have this argument on 11 the record. 12 MR. LYTVYN: Sure. Okay. So the question 13 before we went off the record is why are you talking about an infringement claim which is what's being 14 15 argued in the underlying lawsuit instead of arguing 16 what the prior art and what the 116 patent teaches, 17 what's the relevance of the accused infringed device to 18 the 116 patent. 19 MR. COHEN: And the reason I'm laying this 20 foundation is this goes to bias. Like this patent 21 covers an embodiment of a machine that is the subject

of litigation. The technical expert here, Mr. Boos, is the principle of the company that is manufacturing an alleged accused product, and it's in this area of his expertise. And he's testified that he is not a -- that

305-376-8800

Page 166

1	he's removed bias from his expert opinion. And he's
2	not answering any technical questions. He's dancing
3	around all the questions. Like I'm asking specific
4	technical questions, and I'm laying my objections here
5	starting with that he's a biased expert witness. He
6	has a financial outcome in this proceeding as well as
7	the litigation. He's already testified he has 44 1/2
8	percent interest in the party that (A) has instituted
9	the Inter Partes Review as well as being sued in the
10	litigation, and he's a nonbiased technical expert. So
11	I'm asking technicals. I'm asking technical questions,
12	and they're not being answered.
13	MR. PFEIFER: The question about what
14	Waterblasting is selling is not a technical question
15	related to the scope of this opinion.
16	MR. COHEN: I disagree.
17	MR. PFEIFER: Okay.
18	MR. LYTVYN: Should we call the board?
19	MR. COHEN: Sure. We can go off the record,
20	and we'll call the board.
21	(Mr. Lytvyn proceeds to call the board.)
22	(Back on the record while waiting for the
23	board to return the call.)
24	BY MR. COHEN:
25	Q So from a technical standpoint, and you

1	already said when you set out to invent, you don't want
2	to reinvent the wheel. So from a technical standpoint,
3	what technical aspects of what's disclosed in Jones and
4	Breither would motivate somebody, a person of ordinary
5	skill in the art, to add an NLB pump to those systems?
б	PFEIFER: Objection; form.
7	THE WITNESS: The motivation would be to
8	raise the pressure.
9	BY MR. COHEN:
10	Q But technically speaking, how would you
11	combine the NLB reference with Jones and Breither to
12	arrive at a system that would function to achieve the
13	utility of being able to conduct pavement marking
14	removal?
15	MR. PFEIFER: Objection; asked and answered.
16	THE WITNESS: I did answer this before, but
17	if we're going to use the NLB pump, the diesel engine
18	in the pump on the NLB system, we're going to make the
19	Jones truck system longer and integrate that with the
20	Breither tanks, utilize the utility tractor of that of
21	Jones, raise the pressure of the hoses and nozzles.
22	BY MR. COHEN:
23	Q So technically speaking, if a person of
24	ordinary skill in the art in talking about pavement
25	marking removal doesn't consider 200 psi to be high

pressure, then why would they be considering the Jones reference?

A Because it has a tractor, something that's more maneuverable with a better turning radius than a big straight truck. The tractor creates that maneuverability and improved turning radius.

Q So you're saying that one of ordinary skill in the art, if they were trying to improve a system for pavement marking removals would take a 40,000 psi pump and mount it on a system, on a smaller system that only has a 200 psi pump?

12 MR. PFEIFER: Objection; form.

13 BY MR. COHEN:

14 Q And that's what you're saying; correct? 15 A I'm saying that we would use the 40,000 psi 16 pump, and, yes, use that tractor. It's maneuverable. 17 It's a utility vehicle, a small tractor. So, yes, 18 that's what I'm saying.

19 Q Why would a person of ordinary skill in the 20 art think you can just drop the NLB pump onto the Jones 21 tractor and have it work?

A We don't put the NLB pump on the Jones tractor. We put the NLB pump on the Jones truck, and then you increase the pressure of the hoses and the capability of the tractor to accommodate the higher 1

pressure pump of NLB.

2 0 Okay. So then why do you have in your 3 opinion that Jones discloses a high pressure pump? MR. PFEIFER: Objection. 4 5 THE WITNESS: He does have a -- Jones does 6 have a high pressure pump. 7 BY MR. COHEN: That pumps at the high pressure of 200 psi? 8 0 9 Α That's correct. 10 That's your testimony that's high pressure? 0 11 MR. PFEIFER: Objection; asked and answered. 12 MR. COHEN: We're going to mark this Blasters 13 1004. (Blasters Exhibit No. 1004 was so marked for 14 identification.) 15 16 BY MR. COHEN: 17 I've handed you what's been marked as 0 Exhibit 1004. 18 19 I don't think I have it. Α 20 Oh, I didn't hand it to you? Q 21 I don't have it. А 2.2 Now I've handed it to you. 0 Now I have it. 23 А 24 This is Blasters Exhibit 1004. It's U.S. 0 Patent Herhold, Patent Number 6,889,914? 25

	Page 1/1
1	A Yes.
2	Q Do you recognize this patent?
3	A Yes, I do.
4	Q Did you analyze this patent?
5	A Sure. This patent, Matthew Herhold was a
6	signee by NLB. He's using a polarity of nozzles
7	created about negative pressure. It has a shroud
8	around the outside of it. It's all under negative
9	pressure with a vacuum. This is absolutely 101 A, B,
10	Cs of the waterblast business. So this is very
11	straightforward technology that's out there.
12	Q Okay. And this A, B, C technology, this
13	shroud goes over a pump?
14	A No. The shroud goes over the cleaning
15	nozzles.
16	Q It goes over the nozzles?
17	A Correct.
18	Q And why would you install a shroud over the
19	nozzles?
20	A To create a better level of vacuuming to
21	contain the water and the debris. That's why you use
22	the shroud.
23	Q So is it correct to say then this shroud
24	covers the discharge nozzles for the waterblasting as
25	well as the suctioning intake for the vacuum?

Page 172 Yes, it does. 1 А 2 0 Okay. And what pressures and velocities 3 normally does a shroud of this type of disclosure cover? 4 5 MR. PFEIFER: Objection; form. THE WITNESS: Various pressures. It could be 6 7 any pressure. I mean a brush and shroud technique is used with all different types of pressures. 8 9 BY MR. COHEN: 10 Well, you testified earlier that this patent 0 11 is assigned to NLB; correct? 12 It just says it's a unique shroud assembly Α 13 cover of the outlet nozzle of a high pressure hand held 14 discharge device. 15 0 That's not my question. My question was, 16 just so I'm correct, you said that this patent is 17 assigned to LNG Corp.? 18 А Correct. 19 Who is a competitor in this industry that 0 20 you're a technical expert in? 21 Α Correct. And you also testified that this is the A, B, 2.2 0 23 Cs of how this waterblasting technology is utilized; 24 correct? 25 Α How the industry captures water and debris

1 under vacuum, under negative pressure under vacuum. 2 0 Okay. So now as a technical expert, I'm 3 asking you some technical questions. So when you install this shroud, what kind of pressures and exit 4 5 velocities of the nozzles are we talking about? 6 MR. PFEIFER: Objection; form. 7 THE WITNESS: It doesn't have anything to do with it. It just creates a negative pressure. 8 It 9 creates a seal. I mean all the shroud is -- and the 10 brush is at the bottom creates a seal. 11 BY MR. COHEN: 12 So in this what I'm going to call the Herhold 0 13 -- well, I'll just call it the Herhold patent. 14 Α Okav. 15 In column 1, background of the invention, 0 16 they're talking about pressurized water exits the 17 device at pressures up to 40,000 psi. So is that 18 typical of what you would encounter in the A, B Cs of 19 waterblasting? 20 MR. PFEIFER: Objection; form. 21 THE WITNESS: I mean I think when a company 2.2 is trying to sell it, they're just saying it can go up 23 to 40,000 psi. That's the maximum pressure typically in the industry is 40,000 psi. They're just saying if 24 you want to run it at 2,000 psi or 5,000 psi or 20,000 25

Page 174 psi, you can go all the way up with this tool up to 1 2 40,000 psi just like it says in the first paragraph of column 1 on line 16. It says up to 40,000 psi. 3 BY MR. COHEN: 4 5 Further down when you get to line 21 and 22, 0 it's talking about chaotic discharge of elements. 6 What line is that? 7 Α It's start 21 with --8 0 9 Α I see it, yeah. Okay. 10 -- the sentence fluid along with lucid matter Ο 11 and debris flow around the nozzle. This chaotic 12 discharge --13 MR. PFEIFER: Is there a question posed?. BY MR. COHEN: 14 15 0 Well, what are they referring to? Is this 16 just a term for the chaotic discharge? 17 Yeah. What they're saying is, is that if А 18 you --19 MR. LYTVYN: Hold on a second. We have a 20 phone call coming from the board. 21 COURT REPORTER: Do you want to go off the 2.2 record? MR. LYTVYN: 23 For a second yes. 24 (Discussion off the record.) 25 MR. LYTVYN: We can go on the record now.

Page 175 1 (Back on the record.) 2 THE BOARD: I'm sorry about that. Can you 3 guys hear me now? MR. LYTVYN: Yes, we do. 4 5 THE BOARD: So we have a call here. I've got Jeff Abram on the phone, Michael Wood on the phone, and 6 7 this is John Kenny. Who's on the line representing the 8 parties. 9 MR. LYTVYN: For Blasters, Inc., the 10 petitioner, you have Andriy Lytvyn and Nicholas Pfeiffer. 11 12 THE BOARD: And is there a court reporter 13 there? 14 MR. COHEN: Yes. 15 THE BOARD: And is the court reporter 16 recording this? 17 COURT REPORTER: Yes. 18 THE BOARD: All right. And so representing 19 the other side? 20 MR. COHEN: Representing Waterblasting, LLC, 21 the patent owner, I'm Kenneth Cohen and sitting with me 2.2 is Edward McHale. 23 THE BOARD: All right. So who requested the 24 call? 25 MR. LYTVYN: Blasters, Inc., and the question

pertains to 37CFR42.53D52. It's the federal rule that 1 2 that says for cross-examination testimony, the scope of the examination is limited to the scope of the direct 3 testimony. The issue we have that we would like you to 4 5 help us resolve are the questions pertaining to the accused device that is not being used as a prior 6 7 reference, and is that line of questioning allowed. So the accused device in the underlying infringement 8 9 litigation, which has not been cited in the expert 10 declaration and which is not being used as a prior art, 11 questions pertaining to the accused device, is that 12 kind of line of questioning permitted in a deposition? 13 THE BOARD: Can you be a little bit more 14 specific about what type of questions are being asked? 15 MR. LYTVYN: Court Reporter, could you say 16 the question that was asked prior to --17 COURT REPORTER: It's going to take me a little bit without my laptop. 18

19 This is Kenneth Cohen on behalf MR. COHEN: 20 of the patent owner. I think the issue I'm running 21 into here, and I would invite guidance on how to 2.2 navigate through this is, I've hit a point in this cross-examination of the declaration of Mr. Scott 23 24 Boos. Now, he happens to be the principle in Blasters, He's the president. Blasters and Waterblasting 25 Inc.

also have a pending district court litigation, and he
has also submitted a declaration as the technical
expert.

Now, he's already testified that he has a 4 5 44 1/2 percent ownership interest in Blasters, and on this cross-examination as a technical expert, I'm 6 7 getting into -- I'm trying to get into some questions related to bias because I'm trying to ask technical 8 9 questions, and I'm being, you know, met with certain 10 difficulties. And I don't intend in any way, shape or 11 form here to complain about the difficulties of 12 litigating something, but I feel like I'm not treading 13 too far afield to establish the bias of this technical expert who's subject of cross-examination is his 14 declaration as a technical expert in this matter. 15

16 MR. PFEIFER: This is Nick Pfeifer. I iust 17 want to chime in real fast. The amount of questions pertaining to bias, we're not objecting to that. We're 18 19 objecting to the line of questioning being that there 20 should not be -- it's improper to ask questions about 21 the accused infringing product and whether or not it is 2.2 similar to the claimed device. That line of 23 questioning is out of scope of the opinion that was 24 rendered here. So if he wants to, you know, discuss the 44 percent interest and all of that, he has that 25

information. At this point, there's no reason to go 1 into whether or not the accused infringing device does 2 have the same components as the claimed invention. 3 That should be saved for district court litigation. 4 5 THE BOARD: Maybe I can ask you, Counsel. 6 Why are you asking those type of questions? 7 I mean I'm not intending to tread MR. COHEN: into the district court litigation issues. I'm just 8 9 trying to establish what materials and technical 10 information this expert, purported expert has 11 considered. And, for example, without being specific 12 unless the board solicits it, I mean in my opinion, 13 there's been some very broad technical liberties taken 14 on what proposed claim constructions might be. And in 15 trying to drill down a technical opinion on this, it's 16 frustrating the process. So that's the context in 17 which this bias keeps raising its head. THE BOARD: But why do you need to know how 18 similar the accused product in litigation is to the 19 20 prior art for purposes of the IPR? 21 I mean I don't need that direct MR. COHEN: 2.2 comparison. I guess it's just a notation for the 23 record that, you know, the patent that the principle of 24 Blasters who's also their technical expert has analyzed is also the subject of the district court litigation. 25

So I mean I can agree that I don't need a direct
comparison between the patent and the infringed
product, but I mean it is the subject of his analysis,
this patent.

5 MR. LYTVYN: Just for the record, the accused 6 product is not the subject of the expert declaration 7 that was filed in the IPR, and it is also not being 8 used for any purpose, prior art or otherwise in this 9 IPR.

10 THE BOARD: All right. Let me just 11 understand. Now is there -- is there now an agreement 12 that nobody is going to be going into the accused 13 product?

14 MR. COHEN: I don't see the need to go into 15 the accused product. I do see value in the record 16 though to identifying that the 116 patent at issue here 17 in the IPR is also the subject of the district court 18 litigation. And I'm just trying to draw the 19 distinctions of the overlap between -- in terms of what 20 the bias is here of this technical witness who -- all 21 he testified to was he removed the bias from his 2.2 opinion, which I'm trying to dispute that laying a 23 record.

24THE BOARD: Okay. I'm just trying to get at25the dispute at hand. As I understand it, the objection
1 was getting into the questions about the product that
2 was accused of infringement in the litigation which was
3 not discussed or mentioned in the declaration. Now, it
4 sounds like you're not planning to go into any
5 questions about the accused product or any further
6 questions about the accused product; is that correct?

7 MR. COHEN: Correct, not outside of the scope8 of what's disclosed in the patent.

9 THE BOARD: What do you mean outside of the 10 scope of what's disclosed in the patent?

11 MR. COHEN: Well, I mean a lot of the dispute 12 here is in terms of what technical ranges are 13 disclosed, for example, like the operating pressures of 14 a pump, for example, that's part of the system. And my 15 position is, is that Mr. Boos as an expert is taking an 16 unreasonably broad interpretation of some of these 17 terms, and I'm just trying to highlight the bias by laying a record of what's in the patent, and that 18 19 noting that there is district court litigation, and he has a financial interest in the outcomes of all of 20 21 these. And, you know, it's impacting I believe some of 2.2 the questions. And I'm just trying to accurately lay a foundation just for some of my technical questions 23 24 about what is in the declaration as well as what's been conveniently left out of the declaration. 25

Page 181 THE BOARD: Okay. See, I'm just trying to 1 2 get this point at hand. I mean you've already established I think in the ownership interest; 3 4 correct? 5 MR. COHEN: Yes. 6 THE BOARD: And if there's no dispute that 7 the litigation is pending? MR. LYTVYN: There's no dispute, Your Honor. 8 9 THE BOARD: So in terms of -- I mean if the 10 issue just at our hands in terms of questions about the 11 accused product, are you planning to ask any questions 12 going forward about the accused product? And I'm 13 talking about the product that is accused of 14 infringement in the litigation? 15 MR. COHEN: No, I'm not planning on that. 16 Okay. So given that, maybe you THE BOARD: 17 can ask counsel for the other side, is there a dispute for us to resolve at this point given the fact that 18 19 he's not going to be asking anymore guestions about the 20 accused product? 21 MR. LYTVYN: Yes, Your Honor. 2.2 THE BOARD: Sorry? 23 I'm sorry. Let me clarify. MR. LYTVYN: As 24 long as there are no further questions about the accused product, the dispute is off, Your Honor. 25

Page 182 THE BOARD: All right. So then as far as I 1 2 understand, everything is cleared up, and there's 3 nothing -- we don't need to make any rulings here. Ιt sounds like everybody has got an understanding on how 4 5 to go forward; is that correct? 6 MR. LYTVYN: It appears so. 7 MR. COHEN: Yes. I think we have some 8 clarity. Thank you. 9 THE BOARD: Okay. And that's true for all 10 sides? Everybody is on board, and you guys can proceed 11 at this point? 12 MR. LYTVYN: Yes. 13 MR. COHEN: Yes. 14 I'll just put you on hold for one THE BOARD: 15 second. Okay. I think that wraps it up for today. 16 And I assume that the transcript, this will just be 17 included with the deposition transcript on the record? 18 COURT REPORTER: Yes. 19 MR. PFEIFER: Yes. 20 MR. COHEN: Yes. 21 THE BOARD: Okay. All right. Well, thank 22 you very much. 23 MR. PFEIFER: All right. Well, thank you. 24 MR. LYTVYN: Thank you. 25 MR. COHEN: Thank you.

Page 183 1 THE BOARD: Okay. Good-bye. 2 MR. COHEN: Do you want to take a five-minute break? 3 COURT REPORTER: Sure. 4 5 MR. COHEN: Is that all right. 6 THE WITNESS: Do you want me to answer the 7 question about the chaotic impact, or do you want to wait until we come back? 8 9 MR. COHEN: You know what? Let's answer that 10 pending question just so the record is clear. 11 THE WITNESS: Basically it's a chaotic 12 That shroud is there to protect the discharge. 13 operator of the machine or anybody around it that could get hit with flying debris. So all the shroud does is 14 15 it keeps it inside that container, if you will, inside 16 that shroud, so that somebody doesn't get hurt by 17 flying debris. 18 BY MR. COHEN: 19 Is that the kind of problem you wound 0 20 encounter on a street sweeper or a turf cleaner? 21 I mean it could. I mean the water Α It could. 2.2 could hit, you know, anything on a street sweeper. Ιt could be a rock. You know, somebody could get hit with 23 The turf, I'm not sure if that's, you know --24 a rock. 25 0 Based on your own expertise or knowledge, do

Page 184 you have a basis for that opinion that it could be or 1 2 is a problem that needs to be used on a street sweeper or a turf cleaning machine? 3 MR. PFEIFER: Objection; form. 4 5 THE WITNESS: It definitely would have impact on a street sweeping machine and, you know, potentially 6 7 on a turf cleaning machine. BY MR. COHEN: 8 9 0 Are they customarily -- based on your 10 understanding, is this type of shroud used on turf 11 cleaners and street sweepers? 12 I'd say something very similar. Α 13 0 Okay. And what do you base that opinion on? Based on the shroud, some type of shroud 14 Α 15 that's being used on either one of them. Both of them 16 would need to have some type of shroud. 17 So could you give me a specific example 0 within your knowledge of where a shroud is employed in 18 either a street sweeper or a turf cleaning machine? 19 20 Around the cleaning head, the cleaning head А 21 area. 2.2 So they are used? 0 23 They can be used, yes. А Well, I'm not asking you can they be used. 24 0 I'm asking you what is your specific knowledge to a 25

1 2 street sweeping system or a turf cleaning system that employs a shroud like disclosed in the Herhold patent?

3 Α In the Jones patent, the jet hits the surface, and then there's a vacuum nozzle behind it. 4 5 On the Breither machine, we're not -- the shroud on the Breither machine is -- I think it's a brush as well. 6 7 The NLB system has the exact -- not the Herhold patent, but it has a shroud on it just like the 116 patent 8 9 has. So the prior art on the 116 patent is the same as 10 the prior art on the NLB system. The shroud is exactly 11 the same.

Q That's not my question. My question is, are you personally aware of a street sweeper system like disclosed in Breither or a turf cleaning system like disclosed in Jones that employ a shroud as disclosed in Herhold?

A It looks like it's a similar -- it's a similar shroud system that's being used. The shroud is exactly the same on that of the NLB system in the prior art.

Q I didn't ask you about NLB. I asked you what is your specific knowledge as to is the shroud that's disclosed in Herhold, all right, do you have any specific knowledge personal that could form the basis that either Jones or Breither used a shroud?

Page 186 MR. PFEIFER: Objection; form. 1 2 BY MR. COHEN: That's a yes or no question. 3 0 So state the question again. 4 Α 5 The shroud disclosed in Herhold --0 6 Α Yes. 7 -- do you have any personal knowledge as to a 0 street sweeper system or a turf cleaning system that 8 9 employs the Herhold disclosed shroud? 10 Α I don't know. I'm not sure. I don't think 11 I don't think it uses the shroud exactly like that so. 12 one, no. 13 0 So you're not personally aware of anything? I'm not positive that the Herhold shroud is 14 Α 15 exactly the same to that of the turf cleaning machine 16 of Jones and the street cleaning machine of Breither. 17 But I can say that the NLB prior art is exactly the 18 The patent from Herhold that was used separately same. 19 on the NLB prior art is the same shroud that's used on 20 the 116 patent. 21 MR. COHEN: Okay. I guess we'll take that 2.2 break now. 23 (Brief recess was taken at 4:07 p.m., to 4:14 p.m.) 24 CROSS-EXAMINATION (continued) 25 MR. COHEN: I'm marking Blasters 1005.

Page 187 (Blasters Exhibit No. 1005 was so marked for 1 identification.) 2 BY MR. COHEN: 3 I'm handing you what's been marked as 4 0 5 Blasters Exhibit 1005. The exhibit I just handed you, Blasters 1005, it is a patent to Schrunk, 6 7 S-c-h-r-u-n-k, Patent Number 5,494,393. Do you recognize this patent? 8 9 А Yes, I do. 10 Have you read it before? 0 11 Α Yes. 12 And you cite this patent in your declaration? Q 13 Α T did. 14 And what is this patent related to? 0 15 Α This patent dealt around using transversely 16 loaded or provided ramps that are pivotally connected 17 to the side of the vehicle and enables the small 18 utility vehicle tractor type device to be driven up and 19 onto a truck. And it takes up less space. It's safer, 20 and it enables you to drive the tractor forward in both 21 directions, so like coming up and going down. Ιt 2.2 enables you to use it either way. So is this type of device used in the 23 0 24 pavement marking removal industry? 25 It can be. It can be. You know, it's not --А

1 it can be used, yes. 2 0 How? To load any type of tractor on a truck. 3 Α You load it transverely to take up less deck space. 4 5 So this could be one piece of a system? 0 It could be, yes, but depending on what. You 6 А 7 asked about the pavement marking. So it could be a striping company using it. It could be a company that 8 9 does the removal using it. So, yes, it could be used 10 as one -- of one component of an overall system. 11 So in your expert declaration, this is 0 12 another patent that you say would be obvious to the 116 13 patent and over the combination of Jones, Breither, 14 Herhold and now this patent, Schrunk? 15 MR. PFEIFER: Objection to form. 16 BY MR. COHEN: 17 So in your technical field, and we're talking 0 18 pavement marking removals and specifically the field 19 that you're a technical expert in based on your 20 technical expertise, technically why would you be 21 motivated to add this component --MR. PFEIFER: Objection; form. 2.2 BY MR. COHEN: 23 -- to arrive at the 116 patent? 24 0 It just gives you more -- it gives you more 25 А

deck space. It's safer to load it this way, and it 1 2 gives you more deck space as opposed to loading it 3 longitudinally. Where do you fit all the other components to 4 0 5 arrive at the system disclosed in the 116 patent? You just use a larger truck. 6 А 7 So how large of a truck would it have to be 0 to fit all the components required to do pavement 8 9 marking removals with a pump that pumps at 40,000 psi 10 and a vacuum pump that vacuums at 1100 cubic feet per 11 minute? 12 The standard straight truck. It depends Α 13 on -- again, there's variables, the size of the water 14 tanks you use, the size of your sump. But, you know, a 24 foot straight truck would be more than enough to 15 16 accommodate something like this. 17 So you're familiar with all the components in Q 18 the 116 patent --19 Α Yes. 20 -- to construct the cleaning system disclosed 0 21 there? 2.2 А Correct. 23 Have you ever built a truck that has all Ο 24 those components on it? 25 MR. PFEIFER: Objection; scope; objection;

Page 190 relevance. It's the same as we discussed earlier. I'm 1 going to advise you not to answer that. We already 2 went over this. 3 THE WITNESS: I'm advised by my counsel not 4 5 to answer. MR. PFEIFER: We can call the board again, if 6 7 we need to. BY MR. COHEN: 8 9 Q Are you aware of trucks that have all the 10 components disclosed in the 116 patent? 11 А Yes. 12 And how long specifically are those trucks? Q 13 А I don't know. I'd have to take a measurement, but workable. 14 15 0 Have you ever built a truck yourself like 16 that? 17 MR. PFEIFER: Objection. The same 18 objection. Don't answer that. 19 MR. COHEN: It's getting into his background 20 as an expert. 21 MR. PFEIFER: You just asked him if he's 2.2 familiar with it. You don't have to ask him if he's 23 actually built it. 24 THE WITNESS: I'm familiar with it. 25 BY MR. COHEN:

Q And how long would a truck with all these
 components need to be?

3 MR. PFEIFER: Objection; asked and answered.
4 THE WITNESS: Workable. A workable length,
5 you know, that would be workable to go out on the road
6 and do a job with everything loaded all on one truck,
7 very workable.

8 BY MR. COHEN:

9 0 When a person of ordinary skill in the art in 10 your field builds one of these trucks, do they build 11 them to workable lengths, or are there technical 12 specifications involved? And specifically I'm asking 13 you for examples of specific dimensioning. Like how long is the trailer? How many axils is on it? 14 Whv 15 would somebody be motivated to put all those components 16 on a pickup truck that has a -- it looks like an ATV on 17 the side of it? And that's disclosed in the Schrunk 18 patent.

MR. PFEIFER: Objection; form.

20 BY MR. COHEN:

19

21 Q I'm asking you to technically explain that 22 with details that are more than general.

23 THE WITNESS: Should I answer?
24 MR. PFEIFER: Sure.
25 THE WITNESS: I mean you're going to have the

1	water box unit on there, the vacuum power unit on
2	there, a water reservoir, a debris sump. And you're
3	going to have the ramps transversely loaded. It's
4	common. It's common in the industry. It's can be done
5	in the industry. It's common. People are doing it.
6	Yeah, it can be done. And I don't know. I'd estimate
7	roughly 24 or 25 feet which is very workable in the
8	industry. As an expert, that's a very workable length
9	of a truck to house all of those components to do
10	that. So it's not an overly long truck that would be
11	cumbersome to work on a job site with.
12	BY MR. COHEN:
13	Q So in the industry, why would you put the
14	truck on sideways
15	A The tractor.
16	Q or the tractor on sideways?
17	A Instead of loading it longitudinally, when
18	you load it transverse, it enables you to have more
19	deck space available to haul more water to create a
20	sump that's larger that holds more water, debris water.
21	Q So what problem would that solve? I mean is
22	it fair to say that that's trying to fit everything on
23	one truck?
24	A It just makes it more workable to have
25	everything on one truck.

Q Okay. So specifically what sort of innovation would you have to develop to fit everything on one truck?

A It wouldn't be very innovative at all. I mean everything is commonly known in the industry. It's a rearrangement of known components. It's not novel.

Q So --

8

9 A It's all prior art stuff that's available.
10 Q So the Jones, Breither, Herhold and Schrunk,
11 are those all in the pavement marking removal
12 industry? Are they examples of machinery that are
13 employed in the pavement marking removal industry?

14 Α Let me take each one of them, I quess. The 15 Jones patent is built around turf cleaning. The 16 Breither patent has some similarities around street 17 cleaning, so, yes, it has some similarities. The 18 Herhold definitely is used in the pavement marking, 19 pavement marking and removal industry. It's being 20 used, yes, and so is the Schrunk transverse loading of 21 a utility tractor on a truck. So it's being used as 2.2 well, so yes. Some are and some aren't.

Q All right. So agreed, the Herhold component
is used in the industry --

25

A Yes.

	Page 194
1	Q as a pavement marking removal?
2	A And so is the Schrunk.
3	Q The Schrunk discloses a ramp system for
4	loading a tractor on?
5	A Correct.
6	Q So in the pavement marking removal industry,
7	Schrunk as disclosed is used with just loading a
8	tractor on sideways?
9	A You load the tractor onto the utility truck,
10	onto the support truck, so, yes, it is being used in
11	the pavement marking removal industry.
12	Q And in its entirety? There is a vehicle in
13	the pavement removal industry, marking removal industry
14	that just has a tractor loaded sideways on the truck,
15	which is what's disclosed in Schrunk excuse me.
16	MR. PFEIFER: Objection; form.
17	BY MR. COHEN:
18	Q Yes, that was correct, Schrunk.
19	A It's all everything is loaded all on one
20	truck.
21	Q So
22	A You know, that's not true. I'm sure that
23	people do load, you know, equipment on transversely.
24	I've seen it before in the industry. So that's one
25	opportunity. The other one is loading it on a pavement

Page 195 marking removal system that combines everything. 1 2 0 So in the pavement marking removal industry, and that's the industry that you're a technical expert 3 in? 4 5 А Yes. Putting a tractor and all the other 6 0 7 components on one truck is well-known; is that your testimony? 8 9 А It is done in the industry. 10 So where is your industry reference in your 0 11 opinion of this disclosure you speak of? 12 MR. PFEIFER: Objection; form. THE WITNESS: 13 I quess I didn't -- it's there. I mean it's available. I mean it could be made 14 available. 15 16 BY MR. COHEN: 17 But if these combinations of Jones, Breither, 0 Herhold and Schrunk are well-known in the industry, 18 19 where is the disclosure --20 А I said they were done -- they were utilized 21 in the industry. I said they were utilized in the 2.2 industry. Okay. So then people with ordinary skill in 23 0 the art in the industry would know about them? 24 25 А Correct.

Page 196 So where is your evidence of these 1 0 2 combinations in your industry? I just guess I didn't put it in. 3 А Because why? 4 0 5 MR. PFEIFER: Objection; form. They weren't put in, but 6 THE WITNESS: 7 they're completed. They're utilized in the industry with everything on one truck, yes. 8 9 BY MR. COHEN: 10 So you're saying that your declaration is 0 11 incomplete? 12 MR. PFEIFER: Objection; form. 13 BY MR. COHEN: I mean is it inaccurate? 14 0 15 Α No, it's not inaccurate. 16 So where is your industry examples of the 0 17 combination of Jones, Breither, Herhold and Schrunk? 18 Α I gave independent analysis and looked at 19 each one of the claims, claims 1 through 6 and claim 10 20 and just used prior art that would motivate me to make 21 a better system, and I did that. That's the result is 2.2 my declaration. And my question is, you testified --23 0 24 It doesn't make anything inaccurate that it Α 25 wasn't.

Page 197 So my question is, is you're saying in the 1 0 2 pavement marking removal of airline rubber and the other surfaces that, for example, are disclosed in the 3 116 patent to remove from various hard surfaces such 4 5 asphalt and concrete, did I understand correctly that you testified that the combination of Breither, Jones 6 7 or Jones, Breither, Herhold and Schrunk is well-known in the industry? 8 9 Α I didn't say well-known. I said it's done in the industry. 10 11 It's done in the industry? 0 12 Yeah, people do that. Α 13 0 So would a person of ordinary skill in the 14 art know about the components that you claim Jones, Breither, Herhold and Schrunk disclose? 15 16 Yes, they would if they did -- it would be А 17 very obvious for them and easy for them to figure that 18 out, so yes. 19 So that is the foundation for my specific 0 20 question of if there are people in the industry that 21 you're a technical expert in, where is your evidence of 2.2 that in your declaration? Where is your discussion of 23 what people in your industry are doing? 24 Objection; form. MR. PFEIFER: 25 THE WITNESS: As I stated earlier, you know,

I referenced each of the specific prior arts as 1 2 compared to the existing claims in the 116 patent, and I identified each one of them as stated in my 3 declaration. 4 5 BY MR. COHEN: So there's not a combination of Jones, 6 0 7 Breither, Herhold and Schrunk anywhere in the pavement marking removal industry that you're aware of? 8 9 MR. PFEIFER: Objection; form. 10 THE WITNESS: I already answered that there 11 are people doing it just like that with everything 12 loaded all on one truck. 13 BY MR. COHEN: 14 Right. And my question is, well, you're an 0 15 expert in this technology area. You submitted a 16 declaration in this technology area. You say you know 17 of people that are using this technology in this area, and I'm asking you, well, where's the discussion of 18 19 that in your declaration? 20 MR. PFEIFER: Objection; form. 21 THE WITNESS: I'm saying that we put each one 2.2 of the components of the prior art together, and, you 23 know, it can be provided. BY MR. COHEN: 24 25 0 So --

1 I wouldn't say it's inaccurate. It doesn't А 2 make the declaration inaccurate though. It makes it 3 stronger. 0 I mean --4 5 Α It makes it even more comprehensive. You agree that your opinion hinges solely on 6 0 being able to pull this prior art in combination based 7 on your definitions of what these terms are in the 116 8 9 patent? Would you agree with that? 10 MR. PFEIFER: Objection; form. 11 THE WITNESS: No, I don't think it's just my 12 opinion on what it is. I mean I think it's not just my 13 opinion. It's my opinion what I said in the 14 declaration. But I think that the assumptions that are 15 made are not just my assumptions. You know, I put 16 myself in the shoes of a person with the skill, you 17 know, a person with skill in the art, ordinary skill in 18 the art. 19 BY MR. COHEN: 20 So you're saying then a person of ordinary 0 21 skill in the art will read the disclosures in the 116 2.2 patent, for example, and they would just -- they would 23 read claim 1, for example. It says a cleaning system for removing coatings from a hard surface by a high 24 pressure liquid. And they would look to the 25

1	specification and say I'm going to disregard column 3
2	starting at line 57, which we read into the record
3	numerous times, they're going to disregard that
4	disclosed limitation, qualitative limitations of 25,000
5	to 40,000 psi? And that's just an example, and then
6	this way well, then Jones is what people in the
7	industry are doing?
8	MR. PFEIFER: Objection; form.
9	BY MR. COHEN:
10	Q And what I'm saying is, if a person what
11	I'm asking you is if a person of ordinary skill in the
12	art would understand that in this field of invention,
13	for example, pavement marking removal were to look at a
14	range between 25,000 to 40,000 psi, why would they use
15	the Jones machine as a baseline of representation of
16	what people are doing in the industry?
17	A The 116 patent is a cleaning machine as
18	stated in claims 1 through 6 and 10. It's not
19	specifically just a pavement marking removal system.
20	The 25,000 to 40,000 psi was an example. You know, it
21	wasn't a defining limitation.
22	Q But to illustrate what people in your
23	industry are doing or at least some, you need to
24	combine the turf cleaning machine with the street
25	sweeper?
l	

Page 201 You would combine the prior art of the Jones 1 А machine, the Breither machine, the Herhold machine and 2 the Schrunk machine. 3 Well, when you talk about what people are 4 0 5 doing in the industry --6 Α Yes. 7 -- are you referring to complete systems? 0 8 Α Yes. 9 So you're aware of complete systems within 0 10 your industry --11 MR. PFEIFER: Objection. 12 BY MR. COHEN: 13 0 -- for pavement marking removal? What does a complete system mean? 14 А 15 I'm asking you as an expert, what would a 0 16 complete system be for pavement marking removal? 17 А I mean people are building complete -- that's very broad. Complete system is an extremely broad 18 19 question. So what would you consider a complete system 20 0 21 narrowly defined? 2.2 Α I mean narrowly defined? I mean not 23 everybody wants a vacuum. It depends on where you 24 are. Not everybody wants to load the tractor on sideways. Not everybody wants a tractor. So I mean 25

Page 202 there's a lot of different variations of this equipment 1 2 on how people want it, you know. And you try to build 3 equipment around what people's needs are and have the price reflect it that way. So complete is a very broad 4 5 It's hard for me to answer. term. 6 0 Okay. So more specifically in your 7 declaration, you have a combination of Jones, Breither, Herhold and Schrunk? 8 9 А Right. 10 In that specific combination, you're aware of 0 11 someone in your industry who is doing that combination? 12 Α Yes. 13 MR. PFEIFER: Objection; relevance. BY MR. COHEN: 14 15 0 So you're saying that whatever this system 16 you're referring to, and part of my question is, well, 17 what are you referring to? 18 А What do you mean by that? 19 Are you saying that there's somebody in the 0 20 industry that took the Jones turf cleaner and combined 21 it with a street sweeper and put an NLB pump on it, and 2.2 there you are? MR. PFEIFER: Objection; relevance; 23 objection, form. 24 THE WITNESS: 25 It was an example of the

prior -- I've already answered this question earlier, 1 2 but the prior art that was out there are examples of 3 technology that's commonly known in the industry. And we already went through this before, and it's --4 5 BY MR. COHEN: So Jones, for example, discloses a pump that 6 0 7 pumps at 200 psi. And you're saying that the NLB pump at 40,000 psi, you're saying pumps are pumps? 8 Is that 9 your testimony? 10 MR. PFEIFER: Objection. 11 THE WITNESS: I didn't say that at all. 12 BY MR. COHEN: 13 0 So then my question is then explain to me 14 from a technical standpoint why would a person of 15 ordinary skill in the art area we're talking about, 16 your area of technical expertise, interchange those 17 pumps? 18 А What I said was the similarity as a pump is 19 that they're both positive displacement pumps. And I 20 said that for cleaning, the Jones pump could be used 21 for cleaning. If you want to take off hard or robust 2.2 markings, then you may have to go up in pressure, and 23 that's why we combined the NLB pump that went up in 24 pressure. 25 0 If you had to combine the NLB pump to get

pressures to remove these coatings or vulcanized rubber or whatever else is cleaned with machines in your technical area of expertise, then if that range was above 25,000 psi, for example, then these references would not be used to make that sort of device. Would you agree with that?

MR. PFEIFER: Objection; form.

8 THE WITNESS: The 116 patent is a cleaning 9 machine though. It's a cleaning machine that does more 10 than just take markings off. So it can be done with 11 lower pressures. And regardless NLB runs up to 40,000 12 psi anyways. They are prior art that I referenced. 13 BY MR. COHEN:

Q So you're saying a person of ordinary skill in the art in the area of pavement marking removal would use what's disclosed in the 116 patent to clean turf?

18 А No. We talked about this question. You already asked me this question, too. You use different 19 20 pressures for different cleaning. You use the lower pressure for softer materials and higher pressure for 21 2.2 harder materials. When you're cleaning -- and like the 116 patent is a cleaning machine. Claims 1 through 6 23 24 define that. Claim 10 defines that. It's a cleaning 25 system. You use different pressures for different

7

1 applications.

2 Q So you still don't have a technical answer to 3 that question.

4 A That's very technical, a very technical5 response.

Q I'm asking you based on what's disclosed in this patent, the 116 patent, in the ranges of 25,000 to 40,000 psi -- and we spoke earlier on the 116 patent about prior art in this area including the machine that you built, Blasters Corporation, that we're talking about pumps that are in the range of 25 to 40,000 psi.

12 MR. PFEIFER: Objection; form.

13 BY MR. COHEN:

14 Q Would you agree that one of ordinary skill in 15 the art would understand that that's the disclosure in 16 the 116 patent?

17 If the 116 patent is only requiring cleaning Α 18 -- sorry -- removing pavement markings, then that would be correct. But it's a cleaning system, so lower 19 20 pressures can be utilized. Again, 25,000 to 40,000 was 21 an example. It was not a defining value, if you will. 2.2 It was an example. It didn't say you have to run 23 25,000 psi to 40,000 psi. It doesn't say you have to run that pressure. It was an example of what was 24 typically run was an example of 25,000 to 40,000. 25 And

besides that, the NLB prior art, if you do want to run 40,000 psi, that system in the prior art would motivate anybody to use it. They use a tractor. They use a system, you know. I mean, you know, it's a striking resemblance.

So if someone in your industry said I'm going 6 0 7 to take one of these NLB trucks with a 40,000 psi pump on it, you know, a high power vacuum pump, you know, 8 9 something along the lines of 1000 cubic feet per 10 minute, and they're going to go and remove vulcanized 11 rubber from a runway, if they said -- and I assume 12 these jobs are bid to a specification where it would 13 say it will take us, I don't know, a day to clean all 14 the runways. Is that something that's normally discussed in the industry? 15

16

MR. PFEIFER: Objection; relevance.

17 THE WITNESS: I mean, of course, with any 18 project, you'd have a scope of work and you'd have a 19 duration of time that you'd have to give that to your 20 customer of how long it's going to take to do the job. 21 BY MR. COHEN:

Q And would it be an incorrect technical term once all the rubber is removed from the runway, for example, that the runway is now clean of the rubber? A Would that be the language that would be used 1 after the application was complete? Is that what 2 you're asking?

Q Would that be technically incorrect to say once all the vulcanized rubber is removed from an airport runway, that the runway is clean?

MR. PFEIFER: Objection; form.

7 THE WITNESS: Typically all the rubber is not 8 removed. It's a partial removal spec. So, you know, 9 it was removed -- I would say it would be more that the 10 rubber was removed from the runway. I wouldn't say it 11 was cleaned from the runway.

12 BY MR. COHEN:

6

Q So when you have a claim -- a cleaning system for removing coatings, so the cleaning system would remove the coatings. So if we're talking about removing runway rubber, that system is cleaning the rubber off. Is there anything technically incorrect about that statement?

A I guess you could say it's cleaning. You
could say it's cleaning the runway, but, you know, the
next person might say it's removing the rubber.

Q I didn't ask you that. I asked you is there anything technically incorrect about using that terminology in your industry?

A Cleaning the runway? Cleaning the runway?

1

Sure.

Q

2	A No, there's not anything technically wrong
3	with saying cleaning the runway. But the
4	specifications so we're on the same page, if you go
5	to an airport, it's not called cleaning. It's not
б	called cleaning the rubber. The specification is
7	rubber removal. It does not talk about cleaning the
8	runway. It's never the spec, and that's not the
9	technical or industry language. The industry language
10	is rubber removal. It's not cleaning.
11	Q So if somebody were to say to a person of
12	ordinary skill in the art in this technical area we're
13	talking about, your area of expertise, do you have a
14	machine to come out and clean my runway?
15	MR. PFEIFER: Objection; form.
16	BY MR. COHEN:
17	Q Is that person of ordinary skill in the art
18	going to come out with a Jones turf cleaning machine,
19	or are they going to come with something different?
20	A The Jones cleaning system was an example of
21	prior art that was commonly known on the market. You
22	wouldn't go to clean a runway with an artificial turf
23	machine.
24	Q So if you're talking about coatings and
25	markings in the area of airport runways and roadways

1	and other asphalt and concrete structures that would
2	have these markings like parking garages and roads, if
3	your cleaning system is removing these coatings, would
4	you agree that that's limited to a pressure range of
5	25,000 to 40,000 and up or some vacuuming at a rate to
6	keep up, a vacuum pump system capable of over 1000
7	cubic feet per minute? Would you agree that those are
8	necessary components that a person of ordinary skill in
9	the art at a minimum would have on their machine?
10	MR. PFEIFER: Objection; form.
11	THE WITNESS: Ask me one question at a time
12	if you would. That was kind of a run-on sentence.
13	BY MR. COHEN:
14	Q Okay. If somebody asked a person of ordinary
15	skill in the art to remove a rubber coating from a
16	runway
17	A Just so we're on the page, rubber is not a
18	coating.
19	Q Fine. Vulcanized rubber that is attached to
20	the runway surface.
21	A Okay. Right.
22	Q If a person of ordinary skill in the art is
23	approached to remove that rubber, what are the minimum
24	operating components on the system to come out to blast
25	with water that vulcanized coating off and vacuum it
l	

1 up?

	-
2	MR. PFEIFER: Objection; form.
3	THE WITNESS: I mean we talked about this
4	earlier, too. I mean typically, you know, maybe
5	15,000 psi up to you know, rubber is not typically
6	cleaned at 40,000 not cleaned, but removed at 40,000
7	psi.
8	BY MR. COHEN:
9	Q But would the person of ordinary skill in the
10	art select a turf cleaning machine that discharges
11	water at 200 psi?
12	A You wouldn't use a turf cleaning machine to
13	do a rubber removal project, and you wouldn't you
14	use different pressures for different applications.
15	You have to be, you know, wise and aware of your
16	application to choose the right piece of equipment.
17	The example of the Jones machine was prior art of an
18	example of a utility tractor and a support truck. That
19	was the example, and then it built from there to create
20	the best possible machine. So the answer is you
21	wouldn't use a you wouldn't use the Jones machine to
22	tackle a runway project. But when you add the other
23	components of the prior art that are all commonly
24	available and commonly known on the market and
25	rearrange them in a larger truck, and you surely could

Page 211 1 go out and do the work on a runway. 2 0 So have you built any trucks --3 MR. PFEIFER: Objection. BY MR. COHEN: 4 5 -- utilizing the combination of these 0 disclosed references? 6 7 MR. PFEIFER: Don't answer that. THE WITNESS: Counsel advised me not to 8 9 answer. 10 BY MR. COHEN: 11 I mean in your technical background and 0 12 expertise, a lot of what you rely upon is your patents 13 and your positions at Blasters, Inc., in various capacities over the years. Do any of those involve 14 15 building a system that's similar to what's disclosed in 16 the 116 patent? 17 MR. PFEIFER: Again, objection for the same 18 reason. 19 THE WITNESS: Don't answer? 20 MR. PFEIFER: No. 21 THE WITNESS: Counsel suggests I don't 2.2 answer. 23 BY MR. COHEN: 24 0 I mean --There surely can be other ways 25 MR. PFEIFER:

1 to get an answer to that question.

2 BY MR. COHEN:

Q So what is your experience in constructing machines for applications such as removing pavement markings and/or the vulcanized rubber in airport runways?

A We starting building them in 1990, and we
8 started building systems that we sold in 1992,
9 something like that. So the early '90s.

10 Q And have they evolved through the present 11 time?

12AYes. Like any system, you want to improve as13you go.

14 Q Okay. So --

15 A And evolve.

16 Q And when you first started developing your 17 first system, did you use something similar to the 18 Jones reference?

MR. PFEIFER: Objection; form.

THE WITNESS: In the original system that we built was a truck-mounted system. It didn't have a tractor, so it's not relevant.

23 BY MR. COHEN:

19

24 Q So you didn't even start with something as 25 small as the Jones reference for the applications we're

Page 213 talking about in the field of art that the 116 patent 1 is related to? 2 Objection; relevance. 3 MR. PFEIFER: THE WITNESS: Can I answer that? 4 5 MR. PFEIFER: You can. THE WITNESS: The first trucks that we built 6 7 were truck-mounted systems where we had a head off the front of the truck, and there was no utility tractor 8 utilized. So it's not relevant. 9 10 BY MR. COHEN: 11 So there came a time where you added a 0 12 utility tractor, you called it --13 Α Yes. 14 -- to the system? Ο 15 Α Yes. 16 And when was that? 0 1999, '98. 17 Α 18 And what are the components of that system? Q 19 Objection. You're going down MR. PFEIFER: 20 the same line. Don't answer it. 21 Counsel has --THE WITNESS: 2.2 MR. PFEIFER: This is not relevant. 23 MR. COHEN: This is absolutely relevant. I'm asking his background and getting into his expertise. 24 And I'm saying how would one of ordinary skill in the 25

MR. LYTVYN: Sure. And the person of ordinary skill in the art is not defined as somebody who actually builds these machines. I think that's the definition that we have on the record that we proposed, and you guys agreed to it and the board accepted, nor does it say that a person of ordinary skill in the art is somebody who actually builds these machines. BY MR. COHEN: Somebody of ordinary skill in the art is 0 agreed would have technical expertise in this area, and that's you? Α Yes. MR. PFEIFER: Objection; asked and answered. BY MR. COHEN: So in this area, you -- I mean you say you're 0 a technical expert, so I assume that encompasses you're a person of ordinary skill in the art; correct?

art be motivated to combine this stuff, and he's giving

general answers. I mean this is a cross-examination.

Q So you testified earlier that a lot of these components are known in the industry and are built on specific machines within your industry. So I'm asking you specific questions. What is your knowledge about where -- like who in the industry and how is this done,

Α

Correct.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

Page 214

Page 215 and, for example, have you a built machine that is a 1 combination of all these references? 2 MR. PFEIFER: Objection. Again, this is 3 going into -- don't answer. You're leading right down 4 5 the road of whether or not he infringed this patent. It's not relevant to determine all -- who has built one 6 7 of these machines since the implementation of the 116 8 patent. We're talking about prior art. 9 MR. COHEN: 10 MR. PFEIFER: You're not though. 11 MR. LYTVYN: You're asking if anybody else 12 has built one of these machines. 13 MR. COHEN: But I'm making the question more 14 specific. BY MR. COHEN: 15 16 The prior art -- is there prior art in your 0 17 industry specific to your opinion? 18 Α The NLB patent. 19 Okay. So the NLB patent by itself or the NLB 0 20 disclosure -- so you're saying that Schrunk assigned Is that what you're referring to? 21 NLB that? 2.2 Α The NLB prior art, I'm saying. No. The reference? 23 0 The reference. 24 Α The Blasters 1006 I believe is the --25 0
Page 216 Yeah, this one right here, 1006. 1 А 2 0 So what other prior art in your industry are 3 you aware of because you agreed Jones is not within the scope of your industry? 4 5 MR. PFEIFER: Objection; relevance. BY MR. COHEN: 6 7 Breither is not within the scope of your --0 We've already gone through this question. 8 Α 9 You've already asked me three -- this is probably the 10 third different way you have asked me the same 11 question. I already answered it. 12 You didn't answer it. So is it correct to 0 13 say that Jones by itself is not a machine that's utilized in your industry? 14 15 MR. PFEIFER: Objection; form. 16 THE WITNESS: No. The Jones machine by 17 itself is not used for pavement marking removal. 18 BY MR. COHEN: 19 Okay. And either is Breither? 0 Stand alone it is not. 20 А 21 And neither is Schrunk? 0 2.2 А Stand alone it is not. 23 So why would a person of ordinary skill in 0 the art in your industry combine all of these 24 25 references?

Page 217 Because it's prior art, and it's commonly 1 А 2 known. It's commonly known in the industry. You could combine Jones, Breither, Herhold 3 0 and Schrunk with NLB and arrive at what's been 4 5 disclosed in the 116 patent? Objection; form. 6 MR. PFEIFER: 7 Yes. It's commonly known in THE WITNESS: the industry. And it's a rearrangement of components, 8 9 and, sure, yeah, it could be done, yes. 10 BY MR. COHEN: 11 And I'm asking what is your personal 0 12 knowledge of that within your industry, and without 13 citing to these references, do you have personal 14 knowledge of where this is being employed in your 15 industry? 16 MR. PFEIFER: Objection; relevance. We're 17 not here for him to find infringes for you. Don't 18 answer the question. 19 This is inconsistent with -- it's MR. COHEN: 20 a follow-up question to his testimony of this is known 21 in the industry. 2.2 MR. PFEIFER: It's not because you're not 23 restricting your time frame back to the priority date. You're asking if this is happening in the industry. 24 Those are two completely different questions. And the 25

Page 218 fact remains that just because we don't have a 102 1 (sic) reference doesn't mean that the combination of 2 references is not obvious. 3 BY MR. COHEN: 4 5 In terms of prior art, what is going on in 0 6 the industry that you have personal knowledge of that 7 everyone is doing? I never said everyone. I said there are 8 А people that are doing it. It's the same question, 9 10 isn't it? 11 MR. PFEIFER: It is. 12 THE WITNESS: Yes, it's the same question. 13 I'm not going to answer that. BY MR. COHEN: 14 15 0 Prior to July 2nd, 2004, because we're 16 talking about prior art, do you agree that that's what 17 your opinion is based around? 18 Yes, on claims 1 through 6 and 10, correct. Α 19 Within your industry, is there prior art that 0 20 you're aware of prior to July 2nd of 2004 that combines 21 these elements such as are disclosed in Jones, 2.2 Breither, Herhold and Schrunk? Some of them are -- some of those -- there is 23 Α 24 prior art for all of them prior to 2004, yes, July 2nd, 2004, yes, there is. 25

Page 219 Other than this? So people that are doing 1 0 2 pavement marking removal and removing runway vulcanized rubber coatings, there is other combinations similar to 3 Jones, Breither, Herhold and Schrunk that you're aware 4 5 of? Be more specific with your question to make 6 А 7 sure I'm answering it correctly. MR. COHEN: Would you mind reading that 8 9 question back. 10 (Previous question read back by court 11 reporter.) 12 THE WITNESS: Then do I answer the question? MR. PFEIFER: 13 Yes, you can answer that. 14 THE WITNESS: Yes, there are people out there doing this. 15 16 BY MR. COHEN: 17 And like what specifically are you referring 0 18 to? 19 MR. PFEIFER: Objection; scope. 20 THE WITNESS: I guess the question is you 21 said -- you referenced the Jones, the Herhold, the 2.2 Breither and the Schrunk patent prior art. BY MR. COHEN: 23 24 0 Yes. 25 You're asking me are there people that are Α

## doing each of those? 2 0 I'm asking you a follow-up question to -- and 3 correct me if I have this wrong. I'm trying to clarify if you testified then that there are some people in 4 5 your industry who have devices, machines, to be

1

utilized in the pavement marking removal or airport 6 7 rubber runway removal industry that are using this technology --8

9 MR. PFEIFER: Don't answer that. 10 BY MR. COHEN:

-- prior to July 2nd 2004 where you're 11 0 12 saying -- what is your knowledge of these elements 13 being combined in your industry?

14	MR.	PFEIFER:	You can answer that one.
15	THE	WITNESS:	My knowledge of the
16	MR.	PFEIFER:	Objection; scope also.
17	THE	WITNESS:	There are people in the
18	industry that	are combi	ning those combinations of

19 equipment all on one chassis, yes.

BY MR. COHEN: 20

21 They're doing that prior to July 2nd of 2004? 0 2.2 Α I'd have to think about that one, yeah. I'm not sure if it was prior to that date or not. 23 But there's people that are doing it. Surely the prior art 24 25 shows there's -- I'd have to think about that. I'd

1 have to think about that. I'm not prepared to -- I was 2 just saying I'm not prepared to answer the question before July 2nd of 2004. I don't know. 3 What is your understanding of what 4 0 5 constitutes prior art? Prior art is the technology prior to the 6 А 7 filing date of the patent. The patentholder in this case is the technology that was made publicly available 8 9 and aware prior to the filing date. It's the specific 10 technology that's mentioned in the claims. 11 And at the time that you prepared and Ο 12 executed your declaration, was that your understanding 13 of what prior art was at the time? 14 Α I would say so, yes. Yeah. 15 So the question you just said you had to 0 16 think about, what was the state of the prior art in 17 your industry, do you think that that would have been something you would have researched at the time of 18 19 preparing this declaration? 20 MR. PFEIFER: Objection; form; objection; 21 scope. THE WITNESS: No, I wouldn't have. 2.2 BY MR. COHEN: 23 24 You wouldn't have considered prior art within 0 your own field? 25

Page 222 I did. We did prior art based on each of the 1 А 2 components to try to -- again, we weren't trying to 3 beat anyone's patent. We were just trying to improve the system. 4 5 What do you mean by that? 0 Just trying to improve a system and build the 6 Α 7 best possible system that's out there. 8 0 So are you saying you built the best possible 9 system out there? 10 Α I don't know. One may say that. 11 Okay. So is that based on you reading the 0 12 references of Jones, Breither, Herhold and Schrunk in 13 combination, or is it something else? 14 А I think there's a whole lot of things that go 15 into, you know, a lot of industry knowledge. Yeah, 16 definitely reading, you know, Jones, Breither, Herhold, NLB prior art, Schrunk, all of those added together 17 18 helps enlighten me. 19 So this best system that you think you built, 0 20 when was that built? 21 MR. PFEIFER: Objection; relevance; outside 2.2 the scope. Don't answer that. BY MR. COHEN: 23 24 That's a direct follow up to something you 0 25 testified to.

Page 223 1 MR. PFEIFER: You don't need to know the 2 date. 3 Why not? MR. COHEN: MR. PFEIFER: Because the date directly goes 4 5 towards infringement. MR. COHEN: I'm asking about prior art. Did 6 7 he build a machine that he thinks is the best prior to or after July 2nd of 2004. 8 9 MR. LYTVYN: And just to clarify, build is 10 using -- is being used in a constructive sense; right, 11 constructively built? Is that what you were talking 12 about or actually physically built? 13 MR. COHEN: I'm asking the technical expert. 14 I mean I'm asking him. BY MR. COHEN: 15 16 What do you mean by that? What did you build 0 17 and when? We build, you know, all kinds of systems. We 18 А build equipment every day. So I'm not sure what the --19 20 I don't have a date on when I built it. What I'm just 21 saying in general is what we did was to look at the 2.2 prior art, understand the prior art, and it was 23 motivation to improve the system and nothing to do with 24 violating the 116 patent. What prior art are you referring to? 25 0

1	A	I'm referring to Jones. I'm referring to				
2	Breither,	Herhold.				
3	Q	The machine you were just referring to				
4	A	Which machine?				
5	Q	I don't know. I'm asking you. You said you				
6	read refer	read references; right, and you built what you thought				
7	was the be	was the best machine?				
8	A	I said we wanted to build the best machine.				
9	If I used the wrong tense, then maybe that's the case,					
10	but I said we wanted to build the best system.					
11	Q	And you reviewed prior art in your endeavor				
12	to build the best system?					
13	A	I read this prior art, the Jones, Breither.				
14	Q	When's the first time you read the prior art?				
15	A	I can't recall. I don't know.				
16	Q	And then when you said you wanted to build				
17	the best s	the best system, what's your time frame to start				
18	building the best system?					
19	A	To be determined.				
20	Q	So it hasn't been built yet?				
21	A	No.				
22	Q	And are you contending that all the				
23	references	references that you cite in your declaration is the				
24	limit to t	the prior art in your industry area?				
25		MR. PFEIFER: Objection; scope.				

Page 225 THE WITNESS: No, I don't think it's limited 1 2 to that. It could continue to improve. It's gets outside those limits. 3 BY MR. COHEN: 4 5 So is there art, prior art that's outside of 0 the limit of what is disclosed in your declaration? 6 7 No, not that I know of right now. Α Okay. And you're not aware of any other 8 0 9 prior art prior to July 2nd, 2004 within your industry? 10 MR. PFEIFER: Objection; scope. 11 THE WITNESS: I said I'm not -- I don't know 12 for sure. I'd have to come back and answer that 13 question. BY MR. COHEN: 14 15 0 And would you agree that that probably would 16 have been important if, in fact, that fact existed to 17 make it into your declaration? 18 MR. PFEIFER: Objection; scope. 19 THE WITNESS: I don't think it would have 20 been important enough. 21 MR. COHEN: All right. I'll mark this as 2.2 Blasters 1007. (Blasters Exhibit No. 1007 was so marked for 23 identification.) 24 BY MR. COHEN: 25

Page 226 1 I'm showing you what's been marked as 0 Blasters 1007. 2 3 Α Yes. Do you recognize this patent? 4 0 5 Α I do. Have you reviewed it before? 6 0 7 I have. Α For what purpose did you cite this in your 8 0 9 opinion? 10 Α Because it's one method of collecting the 11 debris. You know, you have to have an angled floor 12 somehow to dump the water and debris, and this is one 13 of the prior art references that I looked at because 14 this is a tiltable body for collecting debris as a dump truck would work. 15 16 So this is a dump truck? 0 17 No, it's not a dump truck. It's just a Α 18 tiltable body like a dump truck. It just tilts. The 19 box tilts. 20 So then --0 21 Α This is a tank. Actually that's a tank for 2.2 holding water and debris. So we're referring to Blasters Exhibit 1007, 23 0 and this a U.S. Patent to Sloan, Patent Number 24 4,975,205. And if you would turn to figure 1. 25

Page 227 Figure what? 1 Α 2 0 1? Figure 1, yes. 3 Α There's a truck with a body that's tiltable, 4 0 5 and it looks like there's a hinge on the rear for 6 dumping? 7 Α Correct. Would somebody in the art area that you're a 8 0 9 technical expert refer to this as some version of a 10 dump truck? 11 I think the only similarity would be as it Α 12 lifts up to dumb, but it's not an open box. It's a 13 tank. So if you categorize it as a tiltable dumb 14 0 15 body, would that be more accurate? 16 A tiltable dump body? I wouldn't call it А that. I'd call it a -- it's a sump. 17 It's a 18 reservoir. You know, it's a tank that tilts. It does 19 tilt. It's just somebody's example. It's just, you 20 know, a commonly known over-the-counter description. 21 Everybody knows what a dumb truck is. 2.2 0 Are trucks like this in your industry of pavement marking and coating removals and vulcanized 23 24 rubber on airport runway removals, are trucks such like 25 this disclosed in the Sloan reference patent commonly

1 outfitted with high pressure pumps and high vacuum 2 pumps? MR. PFEIFER: Objection; relevance. 3 THE WITNESS: Yes, they are. 4 5 BY MR. COHEN: So in your industry, if you're going to build 6 0 7 a system for removing pavement markings or coatings, you would start with a base truck like the Sloan 8 9 reference? 10 Α Not necessarily. I mean you could start with 11 the Jones, with the Jones truck. It wouldn't matter 12 what chassis you used, cabin chassis. It wouldn't 13 matter. 14 I'm like to object to the MR. PFEIFER: 15 previous question to the scope and relevance. 16 BY MR. COHEN: 17 So this is added to the list of references 0 18 that you've reviewed in contemplating, you testified, 19 in building the best possible system you can. And it's 20 your testimony that a person of ordinary skill in the 21 art would start with these disclosed references being 2.2 all the exhibits in front of you to arrive at the best 23 system? 24 MR. PFEIFER: Objection; form; objection; 25 relevance. Veritext Legal Solutions 800-726-7007 305-376-8800 1

THE WITNESS: I could, yes.

2 BY MR. COHEN:

3 Q Okay. And what exactly would you contemplate 4 the best system to be?

5 The most viable system. I think it's Α 6 subjective, but the most viable system. The best 7 system is the most workable system and potentially the economical system, simplest system, you know, the unit 8 9 that uses less parts, so the operating costs less. And 10 I think it's a whole multitude of a big cross-section 11 of things I would look at as the expert on building the 12 best possible system as in any industry. And there's a 13 lot of variables that determine what the best possible 14 system is, and at the end of the day, it's very 15 subjective, you know. It depends on who's asking and 16 who's answering.

Q So in reviewing the prior art to build the
best possible system --

A

Yes.

19

20 Q -- technically what are your goal technical 21 parameters that the best system would have to employ?

A You'd have to look at the comprehensive, you know, the overall machine. There would be a whole lot of different components that I would look at. I mean there's countless components that you would look at in 1 the design of the components, the orientation. I mean 2 there's a lot of things that goes into building a big 3 piece of equipment.

Q I mean you're a technical expert. Could you give me some technicals on after reviewing the prior art, what sort of components would have to be in the best system?

8

MR. PFEIFER: Objection; scope.

9 THE WITNESS: You know, the components would 10 be the articulating head that's on it and how the head 11 works and how it vacuums, how the waterblast system, 12 does it drive off the truck engine; does it drive off 13 an auxiliary engine. You know, there would be a whole multitude of -- I mean I would look at do you want to 14 15 use a tiltable sump reservoir or, you know, a sloped 16 floor reservoir. There would be a lot of different 17 variables that would be looked at to determine what the 18 best possible system is. And one thing I would focus 19 on is building the most -- is building a simple system 20 as well.

21 BY MR. COHEN:

Q So is it fair to say that if you're building an improved yet simple system, that combining a bunch of known elements to get them to work in a combination that is simple and useful and for patent purposes

1 novel, would you agree that that involves some 2 ingenuity? 3 Α No, not necessarily. Objection; scope. 4 MR. PFEIFER: 5 THE WITNESS: Not necessarily. BY MR. COHEN: 6 7 So based on what? 0 It's a bold statement to say that that 8 А 9 wouldn't be the easiest way to do it is to look at the 10 prior art patents that are out there, and I'm answering 11 not necessarily. 12 Well, I'm saying a person of -- your opinion 0 13 is a person of ordinary skill in the art would look at 14 the prior art references that you cite in your declaration? 15 16 Α Yes. 17 And based on that, it would be obvious to 0 18 that person of ordinary skill in the art to come up 19 with what's disclosed in the 116 patent. So I mean my 20 question is technically speaking in your opinion, would 21 that person of ordinary skill in the art expect to be 2.2 able to combine all these references? What's the 23 motivation for getting all these components to work together in combination? 24 25 The motivation would be to ultimately yield А

Veritext Legal Solutions

Page 231

1 the best system.

2	Q But why would a person of ordinary skill in					
3	the art reading the combination of your references					
4	expect success in using that parts list to come up with					
5	what's disclosed in the 116 patent?					
б	MR. PFEIFER: Objection; form.					
7	THE WITNESS: They would expect to they					
8	would expect to yield success. It's very obvious and					
9	components that are commonplace in the industry, things					
10	that are already successfully used. So my opinion was					
11	the technology is proven and available.					
12	BY MR. COHEN:					
13	Q So the 116 patent is issued to James P.					
14	Crocker, and it was filed July 2nd 2004. And are you					
15	aware in your industry of anyone who read all these					
16	cited prior art references in your opinion and derived					
17	an invention that's disclosed in the 116 patent?					
18	MR. PFEIFER: Objection; scope and					
19	relevance.					
20	THE WITNESS: I mean how would I know if					
21	somebody else read those patents. I have no idea.					
22	BY MR. COHEN:					
23	Q Well, you've read the patents; correct?					
24	A Correct.					
25	Q And prior to July 2nd, 2004, are you aware of					

a machine in your industry for removing pavement 1 markings, coatings and/or vulcanized rubber on airport runways that is a combination of all of the prior art 3 references that you have put into your expert 4 declaration here?

MR. PFEIFER: Objection; scope.

7 I'm unaware, but it doesn't THE WITNESS: mean that there isn't. But there are people that have 8 9 built systems very similar prior to 2004 like NLB. 10 BY MR. COHEN:

11 Like what, for example, in the 116 patent? 0 12 I think PCS was building equipment and using Α 13 equipment themselves just like that. I think the 14 company that was started by James P. Crocker used that 15 technology. And that was available. You know, it was 16 out there, and everybody saw that work in the late 17 '90s.

And we talked about this earlier on the 18 0 19 record. For example, in the 116 patent, in talking 20 about the prior art background, the last paragraph in 21 column 1 is talking about NLB markets a high pressure 2.2 water jet system called the StarJet and the next 23 paragraph is the StripeJet. And then there's a similar 24 device marketed by Blasters Corporation, which is your corporation. Are those exemplary of what you're saying 25

2

5

6

Page 234 are similar devices that were in the marketplace at the 1 2 time in your industry? MR. PFEIFER: Objection; form. 3 Α THE WITNESS: Yeah. Yeah, those are 4 5 similar. BY MR. COHEN: 6 7 So if we just categorize that for the 0 Okay. record as being prior art specific to the field of 8 9 invention of the 116 patent, are you aware of any 10 other -- and I think you just mentioned one. Are you 11 aware of any other disclosures or prior art or people 12 prior to July 2nd of 2004 doing anything else similar within this field of invention? 13 14 Objection; relevance; MR. PFEIFER: 15 objection; scope. 16 THE WITNESS: Should I answer? 17 MR. PFEIFER: Yes. 18 THE WITNESS: I'm unaware of a system that 19 has all the components all combined, but definitely 20 people were out there doing each of the components of 21 the prior art. 22 BY MR. COHEN: 23 Individually? 0 24 Α Individually. 25 But not combined that you're aware of? 0

Page 235 MR. PFEIFER: Objection; scope and relevance. 1 MR. COHEN: Let's mark this as Blasters 2 1008. 3 (Blasters Exhibit No. 1008 was so marked for 4 5 identification.) BY MR. COHEN: 6 7 I'm handing you what's been marked as 0 Blasters Exhibit 1008, which is a patent, a United 8 9 States Patent issued to Clemons. It's U.S. Patent Number 6,381,801. You're familiar with this patent? 10 11 Yes, I am. Α 12 Is this one of the patents that was in your 0 13 declaration? Yes, it is. 14 А 15 0 Okay. Is this an example of what somebody in 16 your field specifically pavement marking removals, 17 coating removals and rubber removal would be using to 18 remove those type of coatings? 19 I mean that system is similar to a StarJet. Α 20 This doesn't have an utility tractor with it. It has a 21 pivotal link on it with a head on the front of the 2.2 straight truck. But you could easily by disconnecting 23 the hose that's going to the -- the high pressure hose 24 and the vacuum hose going to the head, run it to a tractor. So the answer is, yes, it could be. 25 It could

Veritext Legal Solutions

Page 236 be used for something like that for stripe removal, but 1 2 not at the pressure that it's being run. But it could 3 be -- it could be used once you put a higher pressure 4 pump on it. 5 So at the pressures disclosed in the Clemons 0 reference --6 7 Α Uh-huh. -- you would not be able to remove the 8 0 9 coatings, markings or vulcanized rubber that is 10 commonly removed in your industry in the field of invention of the 116 patent? 11 12 MR. PFEIFER: Objection; form. 13 THE WITNESS: This is a 4,000 psi system. As 14 I said earlier, different pressures for different 15 applications. You would simply have to change the pump 16 that of NLB to go on the Clemons machine. It's similar 17 to that of what we talked about with Jones. So it 18 could be upgraded to be able to do that. 19 BY MR. COHEN: 20 So looking at figure 1 in the Clemons 0 21 reference, I notice there's a number of different 2.2 components here. See, like in the middle of the reference, there's a number 908, and it seems to be 23 pointing to a box that says boiler? 24 25 Α Yes.

Q Do the systems in your industry commonly use
 boilers?

3 A No. The pump could be used without using the4 boiler.

5 Q So if a person of ordinary skill in the art 6 which you are one, and you talked about reading the 7 prior art references earlier and building the best 8 machine. So you would expect by utilizing the Clemons 9 reference, that you could just shut the boiler off and 10 drop a 40,000 psi pump in here and be ready to go to 11 start removing pavement markings and rubber?

12 I think what you're looking at isn't drawn to Α 13 scale. I mean this just shows you these components are 14 going to go on that truck. I don't think the 15 orientation is exactly the way it is on the truck 16 obviously by looking at it. So it's not drawn to 17 scale, and you don't know from an orientation 18 perspective where everything goes. But running the NLB 19 pump with the head off the front of the -- off of the 20 Clemons unit, yes, it could achieve the objective of 21 cleaning rubber.

Q But you would need a pump at a significantlyhigher pressure than 4,000 psi?

A If you're not doing cleaning, the 116 patent is a cleaning machine. But if you're specifically 1 asking me to do rubber removal, then, yeah, you would 2 run it higher than 4,000 psi.

Q So in your industry for removing rubber and/or pavement markings, a person of ordinary skill in the art would not select the Clemons machine by itself to remove those coatings?

A You would use a -- somebody would use a
cross-section of the prior art examples that we gave.
So you wouldn't just use the Clemons machine stand
alone to go out and do pavement marking removal.

Q So what would motivate a person of ordinary skill in the art to combine all these references, and what manner would they combine them that they would expect to achieve success in building a machine that's workable that can remove pavement markings?

A Well, each one of the systems achieves the objective. And so just a simple utilization of the commonly-known components would make it easy for them to see going into it, that they're going to be successful.

21 Q So just so I'm clear, you've decided in your 22 opinion that the 116 patent discloses a cleaning system 23 for cleaning anything?

A I mean anything is broad, but it's a pretty good cross-section of what that machine can be used for

∠

as any other machine that is similar to that can be
 used for a lot of different applications. That's what
 makes them marketable.

Q And you would agree that if the 116 patent was limited to ranges, for example, of 25,000 to 40,000 psi, that the prior art references of Jones, Breither, Clemons would not have pumping systems that would be capable of that operating parameter? Would you agree with that?

10 A Those three systems do not operate to 25 to 11 40,000 psi, but the 116 patent only gives the 25,000 to 12 40,000 psi -- they give it as an example.

MR. PFEIFER: How much longer do you have? I
was wondering if we should take a break now?

15MR. COHEN: We can take a break. That's16fine.

17 (Brief recess was taken at 5:30 p.m. to 5:52 p.m.)
18 MR. COHEN: Okay. I have no further
19 questions.
20 MR. PFEIFER: Oh, okay.
21 MR. LYTVYN: Okay.

22 MR. PFEIFER: Will you give us just a moment 23 to figure out on my end of redirect?

24 MR. LYTVYN: Yeah. So let's break away for a 25 few minutes.

Page 240 Sorry. We didn't know this was 1 MR. PFEIFER: 2 going to happen. 3 MR. COHEN: Sure. (Brief recess was taken from 5:52 p.m. to 4 5 6:12 p.m.) MR. COHEN: And if you don't mind, can I just 6 7 note something on the record? MR. PFEIFER: 8 Yeah. 9 MR. COHEN: I'm not sure that it's an issue 10 now, but I would just like to note it. 11 MR. PFEIFER: Sure. 12 MR. COHEN: I do notice that we took 13 approximately a 10, 12 minute break, give or take, and I notice that the witness, Mr. Boos, was in the same 14 15 room with his two attorneys which are present in here. 16 And I just want to up front inquire of the witness 17 because this is mid his testimony under oath that none 18 of his prior testimony today, the questioning by me, 19 was discussed with your lawyer? 20 THE WITNESS: No. No, it was not. 21 MR. COHEN: Okay. 2.2 REDIRECT EXAMINATION 23 BY MR. PFEIFER: 24 So there's one thing just for the record I 0 25 kind of wanted to clear up. There was a lot of

1 discussion regarding who wrote the declaration, so I
2 just want to verify, who wrote the declaration, your
3 declaration?

A I wrote the declaration.

Q Now, was it a collaboration between you and your attorneys in order to make sure that the legal -the law corresponded to the technical aspects?

8

9

4

A Yes, because I'm not an attorney.

Q Okay.

10 A I'll let you guys handle that part of it, but 11 I was the one that wrote it. I was the one that signed 12 my name to it. It's my declaration, correct.

Q So when you were referring to collaboration, were you referencing the combination of the legal parts in which we were a part of and also -- well, yeah, just the legal parts then, which we were helping you with?

17 A Yeah, you guys helped he with the legal parts18 of the declaration which I'm unfamiliar with.

19 Q Okay. Now considering only the technical 20 aspects of the prior art in your conclusions, did we 21 come up with those conclusions or did you come up with 22 those conclusions?

A I wrote all the conclusions.

24 Q I also want to clarify on the record there 25 was a lot of discussion regarding building a system.

23

When you were discussing the desire to build the best
 system, was that a hypothetical system or a physical
 system?

I think I said on the record a couple times, 4 А 5 I said it was a -- I didn't say hypothetical. But I said we hadn't built the system, but it was something 6 7 that was in our minds and something that we -- you know, whether it was us or somebody else could have 8 9 built up, looked at the prior art prior to the patent 10 filing date of July 2nd of 2004. So it was a 11 hypothetical. We've never built the system, but it was 12 something that could have been. Again a hypothetical 13 that could have been arranged back prior to the July of 2004 date whether it was by us or anybody else. 14

Q When considering this hypothetical system, prior to the -- prior to the date of the 116 patent, what was your motivation to modify Jones in view of Breither?

A Well, the motivation to combine the systems was that the Jones patent had to use a water supply that came from a municipal source, and it made it less portable and not self-contained. So by using the Breither tank system and combining the two, the motivation to combine those was to make it more useable and workable and more portable and self-contained on,

1 say, a roadway project.

2 Q What about the motivation to add the 3 teachings of NLB to that same system?

The teachings of NLB and the tractor were a 4 Α 5 lot around the maneuverability and working in tight places. And, you know I looked at this tractor system, 6 7 and, you know, obviously it's connected to something. There's a vacuum hose. There's a high pressure hose. 8 You can see the hose coming off the top of the 9 10 tractor. So it needs to be connected to something. 11 And so it was very clear to me that my motivation to 12 combine the technology was to combine, you know, with 13 the Jones and then Breither and then NLB as well as the 14 high pressure pump because we weren't trying to do, necessarily do artificial turf cleaning. But if we 15 16 wanted to go out and take markings off, it made sense 17 to combine the technology and use the NLB for 18 potentially roadway projects.

19 Q So a system with the 40 -- a system with the 20 pump of NLB that's capable of up to 40,000 psi, could 21 that pump be throttled back and then used to clean 22 something like dirt?

A I think that Ken asked me that question early today about throttling it. But, yeah, you could run it up to 40,000 psi. The NLB system, you could run it at,

you know, full RPM or 40,000 psi, but you also could
 throttle it down to do all kinds of cleaning, grime,
 mold, dirt. You know, you could do a lot of lesser
 levels of cleaning by just simply throttling the engine
 down to a lower pressure.

Q Why would a person of ordinary skill in the arts at the time of -- prior to the date of the 116 patent consider modifying that system in accordance with the teachings of Schrunk?

A So you're just asking me -- the question is, is why would prior to the July 2nd, 2004 date, the filing date, you're saying why would somebody want to use the Schrunk system?

14

Q Correct.

15 A To basically just make it shorter and leave 16 more room for other components as well as the -- you 17 know, it's pivotally hinged as well as the safety for 18 loading and unloading.

- 19
- Q Okay.

20 A So the main thing is to shrink it as opposed 21 to loading it longitudinally. It's better to load it 22 transverse and create more room for a bigger water tank 23 or bigger reservoir or sump.

24 Q Why would a person of ordinary skill in the 25 art at the time or prior to July 2nd of 2004 consider

1 modifying the system to include the teachings of 2 Herhold?

3 Α Because if you didn't use Herhold, then the shroud design, it talked about chaotic, you know, 4 5 aggressive flying of debris. And so if you use Herhold and that shroud, it keeps everything contained, the 6 7 water and whatever debris or, you know, whatever this coating is you're taking off within the shroud and then 8 9 back under negative pressure backing it up. So the 10 motivation would just be to do a better job and it to be safer. 11

12 Q At the time of the filing date of the 116 13 patent, again the July 2nd of 2004 date, why would a 14 person of ordinary skill in the art consider adding the 15 tractor NLB to the Clemons reference?

16 To the Clemons reference because the Clemons Α 17 reference is similar to the StarJet truck of NLB, which has a head on the front of the truck, but the turning 18 19 radius isn't very good. So to add the tractor would 20 give you much more maneuverability and capability to 21 getting in the tight areas. So combining the two of 2.2 those would give you the best of both worlds which is the same thing that NLB did with the StarJet and then 23 24 the StripeJet tractor, the StarJet truck and StripeJet 25 tractor.

1 Q Why would a person of ordinary skill in the 2 art as of July 2nd of 2004 consider adding the pump 3 from NLB to the Clemons device?

A To achieve the objective. The Clemons machine was a street cleaning machine. And if you wanted to take off markings, you know, if you wanted to do marking removal or stipe removal, you would want to utilize the higher pressure. So the motivation is to combine the technologies to yield paint or marking removal.

11 Q So you could use the full power of the engine 12 to remove markings from the street?

A Yes.

13

25

14 Q And you could throttle the pump down in 15 orders to remove different coatings?

A Yeah. That was the same question you asked me a second ago with the Jones patent. I mean you just lower the RPM of the engine, and you can do -- run it at lesser pressures.

20 MR. COHEN: I haven't objected to all of 21 these questions, but I will note that some of them are 22 leading, and Mr. Boos is the technical expert. If you 23 could ask the questions in a nonleading manner, I would 24 appreciate it.

MR. PFEIFER: Sure.

1 BY MR. PFEIFER:

2 0 Is high pressure a range? 3 I don't consider it to be a range. I think А it's, you know, anything above atmospheric pressure, 4 5 and there's different -- you know, it's somewhat subjective too. 6 Okay. I want clarify the record. Earlier on 7 0 you explained that a thousand or maybe it was a hundred 8 9 psi would be a low pressure. Would 100 or 1,000 psi --10 let's just say 100. Would a 100 psi still be high 11 pressure? 12 I said earlier that 100 psi was high А 13 pressure. I said I considered it a high pressure 14 because 100 psi would pierce a hole your hand or your 15 finger. So I consider high pressure at 100 psi --16 obviously 100 psi or 1,000 psi is lower than that of 17 40,000 psi, but in my mind, I still call it high 18 pressure. 19 For the 116 patent, several times it was 0 20 brought to your attention that there was a range and specification. Do you remember that? 21 2.2 Α The range that was mentioned in the patent 23 was 25,000 to 40,000 psi. 24 Was that range found anywhere in the claims? 0 I'm very familiar with claim 1 through 6 and 25 Α

Page 248 10, and nowhere in there -- I thought it was an example 1 and not a defining limitation or value. 2 You stated earlier that you reviewed the file 3 0 history, but that you didn't recall any specific 4 5 details; is that correct? I did say that, yes. 6 А 7 Do you recall seeing any -- strike that. Q MR. PFEIFER: All right. I have no further 8 9 questions. 10 MR. COHEN: Can you guys give us like two 11 minutes? 12 MR. LYTVYN: Of course. 13 (Brief recess was taken.) 14 MR. COHEN: I have no further questions of 15 this witness. 16 MR. LYTVYN: All right. 17 (Inter Partes Review concluded at 6:38 p.m.) 18 19 20 21 2.2 23 24 25

	Page 249
1	CERTIFICATE OF REPORTER OATH
2	
3	STATE OF FLORIDA
4	COUNTY OF HILLSBOROUGH
5	I, the undersigned authority, hereby certify
6	that the witness named herein personally appeared
7	before me and was duly sworn.
8	WITNESS my hand and official seal this
9	October 11, 2018.
10	
11	
12	
13	
14	
15	Dawn Neukonm
16	Datan Prantonise
17	
18	DAWN NEUKOMM, RPR
19	NOTARY PUBLIC - STATE OF FLORIDA
20	COMMISSION NO. FF 246558
21	EXPIRES JULY 26, 2019
22	
23	
24	
25	

 1
 REPORTER'S INTER PARTES REVIEW CERTIFICATE

 2
 STATE OF FLORIDA

COUNTY OF HILLSBOROUGH

3

16

17

18

19

20

21

22

23

24

25

I, Dawn Neukomm, Registered Professional Reporter and Notary Public in and for the State of Florida at large, hereby certify that I was authorized to and did stenographically and electronically report the Inter Partes Review, and that the transcript is a true and complete record of my stenographic notes and recordings thereof.

I FURTHER CERTIFY that I am neither an attorney, nor counsel for the parties to this cause, nor a relative or employee of any attorney or party connected with this litigation, nor am I financially interested in the outcome of this action.

DATED THIS October 11, 2018, at Tampa, Hillsborough County, Florida.

Jawa Neukomm

DAWN NEUKOMM, RPR

[& - 2]

&	<b>1000</b> 206:9 209:6	70:18 71:11,16,18	<b>12</b> 240:13
	<b>1001</b> 3:10 7:3 62:6	71:24 72:5 73:2	<b>122</b> 3:12
<b>&amp;</b> 2:3,10	<b>1002</b> 3:12 122:6,6,9	75:22 76:2,5 77:8	<b>126</b> 3:13 100:11
0	<b>1003</b> 3:13 126:20	77:14,20 86:10,12	<b>12:40</b> 99:10
000 52:9	126:21,25	90:8,14 91:3,7,21	<b>13</b> 108:2
1	<b>1004</b> 3:15 170:13	92:18 94:6,7 95:2	<b>130</b> 3:18
<b>1</b> 5:9,10 20:6 21:25	170:14,18,24	95:24 96:12 97:10	<b>14</b> 86:24 108:4,5
22:4 32:10,16 42:1	<b>1005</b> 3:16 186:25	98:6,21 101:22	139:16
42:2 72:12 76:8	187:1,5,6	108:7,8,16,21	<b>14.7.</b> 65:25
86:3 94:8,9 109:8	<b>1006</b> 3:18 130:25	109:7,13 110:3,12	<b>14069</b> 249:16
111:14,15 113:10	131:1,5 146:11	112:11,23 113:6	250:23
113:16 121:3	147:2 158:19	114:21 120:14,17	<b>15</b> 19:7 30:11 43:11
132:16 133:7,16	164:14 215:25	120:18,23 121:11	43:12 76:22 77:22
144:21 146:17	216:1	123:24 124:2,12	78:17 81:14,22
147:22 160:1	<b>1007</b> 3:19 225:22	125:2,7,11 126:4	82:21 83:21 84:11
173:15 174:3	225:23 226:2,23	126:18 127:22	<b>15,000</b> 65:8 69:2
196:19 199:23	<b>1008</b> 3:21 235:3,4,8	128:5,11 130:1,1	210:5
200:18 204:23	<b>1009</b> 3:22 5:8,22,23	130:14,16 131:15	<b>16</b> 30:20 31:8,16,19
218:18 226:25	5:23,24,25 6:5,9	133:1,5 135:18	32:5 86:25 109:10
227:2,3 233:21	65:11 100:11	142:24 144:7,19	174:3
236:20 247:25	147:16	146:1,17 147:22	<b>17</b> 65:14 76:10,16
<b>1,000</b> 39:19 88:15	<b>101</b> 171:9	154:25 160:1 164:5	76:18 116:12
88:16,19 109:23	<b>102</b> 123:5 218:1	165:13,24 166:5,16	139:16
111:11,24 117:12	<b>106</b> 144:5	166:18 179:16	<b>170</b> 3:15
117:15 247:9,16	<b>10:00</b> 1:16	185:8,9 186:20	<b>175</b> 146:15 147:3
<b>1/2</b> 100:1,7 167:7	<b>11</b> 1:15 69:12 123:9	188:12,24 189:5,18	157:13
177:5	155:10 249:9	190:10 197:4 198:2	<b>18</b> 7:3 65:13 86:4
<b>10</b> 6:14 19:7 20:6	250:16	199:8,21 200:17	91:11
30:3 65:11 69:12	<b>1100</b> 87:1,12 88:10	204:8,16,23 205:7	<b>180</b> 2:4 123:18
72:13 94:9 111:14	88:17,19 89:17	205:8,16,17 211:16	<b>187</b> 3:16
111:15 121:3 133:7	109:11 110:16,22	213:1 215:7 217:5	<b>19</b> 137:9
133:17 139:17	111:9,18 112:12	223:24 231:19	<b>1950</b> 1:19
146:17 155:7,8	113:2 120:20 121:6	232:5,13,17 233:11	<b>1986</b> 9:23
160:1 196:19	121:15 157:18	233:19 234:9	<b>1990</b> 212:7
200:18 204:24	189:10	236:11 237:24	<b>1992</b> 212:8
218:18 240:13	<b>114</b> 6:13	238:22 239:4,11	<b>1999</b> 213:17
248:1	<b>115</b> 7:4	242:16 244:7	<b>1:35</b> 99:11
<b>100</b> 118:14 165:5,7	<b>116</b> 43:8,16 44:3	245:12 247:19	2
165:12,22 247:9,10	60:19,24 61:4,6,25	<b>11:00</b> 41:22	<b>2</b> 7:11 42:3,20 74:2
247:10,12,14,15,16	66:9 67:16 68:4	<b>11:15</b> 41:23	74:9 76:21 77:22
	69:12,22,24 70:2		78:17 81:14,22
			70.17 01.17,22
# [2 - 5:52]

			1110115 110
82:21 83:21 84:11	<b>240</b> 3:4	<b>3,011,206</b> 127:1	144:9 145:5,14,18
113:21 115:16	<b>246558</b> 249:20	<b>3,902,219</b> 123:7	146:8 147:6 148:3
116:16 123:4,7	<b>249</b> 3:5	<b>30</b> 51:22,23 157:17	148:13,15,21,25
132:16	<b>25</b> 52:9 76:21 77:22	157:19,20	149:3,5 150:15,23
<b>2,000</b> 173:25	90:1 91:22 125:3	<b>30,00</b> 65:8	153:12,15,18 154:3
<b>20</b> 3:9	143:3 145:14	30,000 117:1,5	155:1 157:4 161:12
<b>20,000</b> 40:16	148:15,25 153:12	<b>33401</b> 2:11	164:11,13,16,24
173:25	192:7 205:11	<b>33602</b> 1:20	169:9,15 173:17,23
<b>200</b> 26:15,21	239:10	<b>34677</b> 2:5	173:24 174:2,3
123:13 124:18	<b>25,000</b> 53:21 57:13	<b>35</b> 22:4,6	189:9 200:5,14,20
125:1 136:15	63:3,22 68:6 69:22	<b>35,000</b> 65:8	203:8 204:11 205:8
138:16 145:7 157:4	70:3,19 91:24	<b>36</b> 132:15	205:11,20,23,25
161:11 164:25,25	95:10 97:12,24	37cfr42.53d52.	206:2,7 209:5
165:6 168:25	98:21 116:16,19	176:1	210:6,6 237:10
169:11 170:8 203:7	117:2 130:2,7	<b>3:00</b> 147:13	239:5,11,12 243:20
210:11	133:2 142:25 145:5	4	243:25 244:1
<b>2001</b> 3:9 20:15,16	148:2,13,21 149:3	<b>4</b> 3:3 7:10 84:10	247:17,23
20:20 32:13 41:25	149:5 150:14,23	<b>4,000</b> 236:13	<b>400</b> 63:7,13
<b>2004</b> 218:15,20,24	153:15,18 154:3	237:23 238:2	<b>44</b> 100:1,7 167:7
218:25 220:11,21	155:1 200:4,14,20	<b>4,975,205</b> 226:25	177:5,25
221:3 223:8 225:9	204:4 205:7,20,23	<b>40</b> 140:19 243:19	<b>45</b> 86:24 87:9 109:8
232:14,25 233:9	205:25 209:5 239:5	<b>40,000</b> 26:8,16,22	147:18 154:4 155:4
234:12 242:10,14	239:11 247:23	35:9,11 36:2,15,19	<b>4:07</b> 186:23
244:11,25 245:13	<b>250</b> 3:6	36:19,21 37:5,12	<b>4:14</b> 186:23
246:2	<b>26</b> 249:21		5
	20 247.21	1 - 38.0 10131516	
<b>201</b> 1:19 61:11,12	<b>20</b> 249.21 <b>27</b> 108:2	38:9,10,13,15,16	
		38:19,19 39:20	<b>5</b> 18:11 84:23
<b>201</b> 1:19 61:11,12	<b>27</b> 108:2	38:19,19 39:20 48:1 50:15,17	<b>5</b> 18:11 84:23 116:16
<b>201</b> 1:19 61:11,12 <b>2017</b> 100:22,23	<b>27</b> 108:2 <b>28</b> 108:3,5 121:23	38:19,19 39:20 48:1 50:15,17 51:16,22,23 52:10	<b>5</b> 18:11 84:23 116:16 <b>5,000</b> 173:25
<b>201</b> 1:1961:11,12 <b>2017</b> 100:22,23 <b>2018</b> 1:15249:9	<b>27</b> 108:2 <b>28</b> 108:3,5 121:23 <b>2855</b> 2:11	38:19,19 39:20 48:1 50:15,17 51:16,22,23 52:10 53:21 63:3,22	<b>5</b> 18:11 84:23 116:16 <b>5,000</b> 173:25 <b>5,494,393</b> 187:7
<b>201</b> 1:19 61:11,12 <b>2017</b> 100:22,23 <b>2018</b> 1:15 249:9 250:16	<b>27</b> 108:2 <b>28</b> 108:3,5 121:23 <b>2855</b> 2:11 <b>2:55</b> 147:13	38:19,19 39:20 48:1 50:15,17 51:16,22,23 52:10 53:21 63:3,22 66:24 68:6 69:2,23	<b>5</b> 18:11 84:23 116:16 <b>5,000</b> 173:25 <b>5,494,393</b> 187:7 <b>50</b> 66:16,20 117:21
<ul> <li>201 1:19 61:11,12</li> <li>2017 100:22,23</li> <li>2018 1:15 249:9</li> <li>250:16</li> <li>2019 249:21</li> </ul>	<ul> <li>27 108:2</li> <li>28 108:3,5 121:23</li> <li>2855 2:11</li> <li>2:55 147:13</li> <li>2nd 218:15,20,24</li> </ul>	38:19,19 39:20 48:1 50:15,17 51:16,22,23 52:10 53:21 63:3,22 66:24 68:6 69:2,23 70:3,20 71:11	<b>5</b> 18:11 84:23 116:16 <b>5,000</b> 173:25 <b>5,494,393</b> 187:7 <b>50</b> 66:16,20 117:21 118:14
<ul> <li>201 1:19 61:11,12</li> <li>2017 100:22,23</li> <li>2018 1:15 249:9</li> <li>250:16</li> <li>2019 249:21</li> <li>203 6:14</li> </ul>	<ul> <li>27 108:2</li> <li>28 108:3,5 121:23</li> <li>2855 2:11</li> <li>2:55 147:13</li> <li>2nd 218:15,20,24</li> <li>220:11,21 221:3</li> </ul>	38:19,19 39:20 48:1 50:15,17 51:16,22,23 52:10 53:21 63:3,22 66:24 68:6 69:2,23 70:3,20 71:11 76:21 77:22 78:18	<b>5</b> 18:11 84:23 116:16 <b>5,000</b> 173:25 <b>5,494,393</b> 187:7 <b>50</b> 66:16,20 117:21 118:14 <b>50/50</b> 100:5
<ul> <li>201 1:19 61:11,12</li> <li>2017 100:22,23</li> <li>2018 1:15 249:9</li> <li>250:16</li> <li>2019 249:21</li> <li>203 6:14</li> <li>204 6:21 7:8</li> </ul>	<ul> <li>27 108:2</li> <li>28 108:3,5 121:23</li> <li>2855 2:11</li> <li>2:55 147:13</li> <li>2nd 218:15,20,24</li> <li>220:11,21 221:3</li> <li>223:8 225:9 232:14</li> </ul>	38:19,19 39:20 48:1 50:15,17 51:16,22,23 52:10 53:21 63:3,22 66:24 68:6 69:2,23 70:3,20 71:11 76:21 77:22 78:18 79:5,9,22 80:15	<b>5</b> 18:11 84:23 116:16 <b>5,000</b> 173:25 <b>5,494,393</b> 187:7 <b>50</b> 66:16,20 117:21 118:14 <b>50/50</b> 100:5 <b>506465</b> 100:22
<ul> <li>201 1:19 61:11,12</li> <li>2017 100:22,23</li> <li>2018 1:15 249:9</li> <li>250:16</li> <li>2019 249:21</li> <li>203 6:14</li> <li>204 6:21 7:8</li> <li>21 174:5,8</li> </ul>	<ul> <li>27 108:2</li> <li>28 108:3,5 121:23</li> <li>2855 2:11</li> <li>2:55 147:13</li> <li>2nd 218:15,20,24</li> <li>220:11,21 221:3</li> <li>223:8 225:9 232:14</li> <li>232:25 234:12</li> </ul>	38:19,19 39:20 48:1 50:15,17 51:16,22,23 52:10 53:21 63:3,22 66:24 68:6 69:2,23 70:3,20 71:11 76:21 77:22 78:18 79:5,9,22 80:15 81:6,21 82:20 84:9	<b>5</b> 18:11 84:23 116:16 <b>5,000</b> 173:25 <b>5,494,393</b> 187:7 <b>50</b> 66:16,20 117:21 118:14 <b>50/50</b> 100:5 <b>506465</b> 100:22 <b>52</b> 113:16
<ul> <li>201 1:19 61:11,12</li> <li>2017 100:22,23</li> <li>2018 1:15 249:9</li> <li>250:16</li> <li>2019 249:21</li> <li>203 6:14</li> <li>204 6:21 7:8</li> <li>21 174:5,8</li> <li>219 144:22</li> </ul>	<ul> <li>27 108:2</li> <li>28 108:3,5 121:23</li> <li>2855 2:11</li> <li>2:55 147:13</li> <li>2nd 218:15,20,24</li> <li>220:11,21 221:3</li> <li>223:8 225:9 232:14</li> <li>232:25 234:12</li> <li>242:10 244:11,25</li> </ul>	38:19,19 39:20 48:1 50:15,17 51:16,22,23 52:10 53:21 63:3,22 66:24 68:6 69:2,23 70:3,20 71:11 76:21 77:22 78:18 79:5,9,22 80:15 81:6,21 82:20 84:9 84:22 85:16 88:20	<b>5</b> 18:11 84:23 116:16 <b>5,000</b> 173:25 <b>5,494,393</b> 187:7 <b>50</b> 66:16,20 117:21 118:14 <b>50/50</b> 100:5 <b>506465</b> 100:22 <b>52</b> 113:16 <b>56</b> 76:11,14
<ul> <li>201 1:19 61:11,12</li> <li>2017 100:22,23</li> <li>2018 1:15 249:9</li> <li>250:16</li> <li>2019 249:21</li> <li>203 6:14</li> <li>204 6:21 7:8</li> <li>21 174:5,8</li> <li>219 144:22</li> <li>22 76:20 174:5</li> </ul>	<b>27</b> 108:2 <b>28</b> 108:3,5 121:23 <b>2855</b> 2:11 <b>2:55</b> 147:13 <b>2nd</b> 218:15,20,24 220:11,21 221:3 223:8 225:9 232:14 232:25 234:12 242:10 244:11,25 245:13 246:2 <b>3</b>	38:19,19 39:20 48:1 50:15,17 51:16,22,23 52:10 53:21 63:3,22 66:24 68:6 69:2,23 70:3,20 71:11 76:21 77:22 78:18 79:5,9,22 80:15 81:6,21 82:20 84:9 84:22 85:16 88:20 88:22 90:1 91:22	<ul> <li>5 18:11 84:23 116:16</li> <li>5,000 173:25</li> <li>5,494,393 187:7</li> <li>50 66:16,20 117:21 118:14</li> <li>50/50 100:5</li> <li>506465 100:22</li> <li>52 113:16</li> <li>56 76:11,14</li> <li>57 76:8,14 77:20</li> </ul>
<ul> <li>201 1:19 61:11,12</li> <li>2017 100:22,23</li> <li>2018 1:15 249:9</li> <li>250:16</li> <li>2019 249:21</li> <li>203 6:14</li> <li>204 6:21 7:8</li> <li>21 174:5,8</li> <li>219 144:22</li> <li>22 76:20 174:5</li> <li>225 3:19</li> </ul>	<ul> <li>27 108:2</li> <li>28 108:3,5 121:23</li> <li>2855 2:11</li> <li>2:55 147:13</li> <li>2nd 218:15,20,24</li> <li>220:11,21 221:3</li> <li>223:8 225:9 232:14</li> <li>232:25 234:12</li> <li>242:10 244:11,25</li> <li>245:13 246:2</li> <li>3</li> <li>3 76:6 77:20 79:5</li> </ul>	38:19,19 39:20 48:1 50:15,17 51:16,22,23 52:10 53:21 63:3,22 66:24 68:6 69:2,23 70:3,20 71:11 76:21 77:22 78:18 79:5,9,22 80:15 81:6,21 82:20 84:9 84:22 85:16 88:20 88:22 90:1 91:22 95:10 97:12 98:21	<ul> <li>5 18:11 84:23 116:16</li> <li>5,000 173:25</li> <li>5,494,393 187:7</li> <li>50 66:16,20 117:21 118:14</li> <li>50/50 100:5</li> <li>506465 100:22</li> <li>52 113:16</li> <li>56 76:11,14</li> <li>57 76:8,14 77:20 116:12 123:9 200:2</li> </ul>
<ul> <li>201 1:19 61:11,12</li> <li>2017 100:22,23</li> <li>2018 1:15 249:9</li> <li>250:16</li> <li>2019 249:21</li> <li>203 6:14</li> <li>204 6:21 7:8</li> <li>21 174:5,8</li> <li>219 144:22</li> <li>22 76:20 174:5</li> <li>225 3:19</li> <li>23 100:13 115:17</li> </ul>	<ul> <li>27 108:2</li> <li>28 108:3,5 121:23</li> <li>2855 2:11</li> <li>2:55 147:13</li> <li>2nd 218:15,20,24</li> <li>220:11,21 221:3</li> <li>223:8 225:9 232:14</li> <li>232:25 234:12</li> <li>242:10 244:11,25</li> <li>245:13 246:2</li> <li>3</li> <li>3 76:6 77:20 79:5</li> <li>79:22 80:15 84:10</li> </ul>	38:19,19 39:20 48:1 50:15,17 51:16,22,23 52:10 53:21 63:3,22 66:24 68:6 69:2,23 70:3,20 71:11 76:21 77:22 78:18 79:5,9,22 80:15 81:6,21 82:20 84:9 84:22 85:16 88:20 88:22 90:1 91:22 95:10 97:12 98:21 116:16,19 117:1,5	<ul> <li>5 18:11 84:23 116:16</li> <li>5,000 173:25</li> <li>5,494,393 187:7</li> <li>50 66:16,20 117:21 118:14</li> <li>50/50 100:5</li> <li>506465 100:22</li> <li>52 113:16</li> <li>56 76:11,14</li> <li>57 76:8,14 77:20 116:12 123:9 200:2</li> <li>5:30 239:17</li> </ul>
<ul> <li>201 1:19 61:11,12</li> <li>2017 100:22,23</li> <li>2018 1:15 249:9</li> <li>250:16</li> <li>2019 249:21</li> <li>203 6:14</li> <li>204 6:21 7:8</li> <li>21 174:5,8</li> <li>219 144:22</li> <li>22 76:20 174:5</li> <li>225 3:19</li> <li>23 100:13 115:17</li> <li>136:14</li> </ul>	<ul> <li>27 108:2</li> <li>28 108:3,5 121:23</li> <li>2855 2:11</li> <li>2:55 147:13</li> <li>2nd 218:15,20,24</li> <li>220:11,21 221:3</li> <li>223:8 225:9 232:14</li> <li>232:25 234:12</li> <li>242:10 244:11,25</li> <li>245:13 246:2</li> <li>3</li> <li>3 76:6 77:20 79:5</li> <li>79:22 80:15 84:10</li> <li>85:1 86:10,23 87:8</li> </ul>	38:19,19 39:20 48:1 50:15,17 51:16,22,23 52:10 53:21 63:3,22 66:24 68:6 69:2,23 70:3,20 71:11 76:21 77:22 78:18 79:5,9,22 80:15 81:6,21 82:20 84:9 84:22 85:16 88:20 88:22 90:1 91:22 95:10 97:12 98:21 116:16,19 117:1,5 125:4,16,23 126:11	<ul> <li>5 18:11 84:23 116:16</li> <li>5,000 173:25</li> <li>5,494,393 187:7</li> <li>50 66:16,20 117:21 118:14</li> <li>50/50 100:5</li> <li>506465 100:22</li> <li>52 113:16</li> <li>56 76:11,14</li> <li>57 76:8,14 77:20 116:12 123:9 200:2</li> </ul>
<ul> <li>201 1:19 61:11,12</li> <li>2017 100:22,23</li> <li>2018 1:15 249:9</li> <li>250:16</li> <li>2019 249:21</li> <li>203 6:14</li> <li>204 6:21 7:8</li> <li>21 174:5,8</li> <li>219 144:22</li> <li>22 76:20 174:5</li> <li>225 3:19</li> <li>23 100:13 115:17</li> <li>136:14</li> <li>235 3:21</li> </ul>	<ul> <li>27 108:2</li> <li>28 108:3,5 121:23</li> <li>2855 2:11</li> <li>2:55 147:13</li> <li>2nd 218:15,20,24</li> <li>220:11,21 221:3</li> <li>223:8 225:9 232:14</li> <li>232:25 234:12</li> <li>242:10 244:11,25</li> <li>245:13 246:2</li> <li>3</li> <li>3 76:6 77:20 79:5</li> <li>79:22 80:15 84:10</li> </ul>	38:19,19 39:20 48:1 50:15,17 51:16,22,23 52:10 53:21 63:3,22 66:24 68:6 69:2,23 70:3,20 71:11 76:21 77:22 78:18 79:5,9,22 80:15 81:6,21 82:20 84:9 84:22 85:16 88:20 88:22 90:1 91:22 95:10 97:12 98:21 116:16,19 117:1,5	<ul> <li>5 18:11 84:23 116:16</li> <li>5,000 173:25</li> <li>5,494,393 187:7</li> <li>50 66:16,20 117:21 118:14</li> <li>50/50 100:5</li> <li>506465 100:22</li> <li>52 113:16</li> <li>56 76:11,14</li> <li>57 76:8,14 77:20 116:12 123:9 200:2</li> <li>5:30 239:17</li> </ul>

Veritext Legal Solutions

# [6 - analysis]

6	a	238:14 246:4	144:23 148:1
<b>6</b> 3:22 20:6 72:13	<b>a.m.</b> 1:16 41:22,23	<b>achieved</b> 145:20	152:19 156:5 164:5
94:9 111:14,15	<b>ability</b> 161:12	achieves 238:16	166:2,4 179:1
121:3 123:10 133:7	<b>able</b> 41:3 63:5,8,17	achieving 145:19	199:6,9 204:6
133:17 136:8	66:17,18 67:12	action 96:17	205:14 209:4,7
146:17 160:1	68:17,18 70:9	250:15	218:16 225:15
196:19 200:18		actions 92:5	231:1 239:4,8
204:23 218:18	124:15,21 125:15	adapted 145:17	agreed 193:23
204.25 218.18	138:4,25 143:23 156:16 161:11	add 139:17 168:5	214:7,12 216:3
		188:21 210:22	agreement 179:11
<b>6,381,801</b> 235:10	168:13 199:7	243:2 245:19	<b>ahead</b> 112:1 148:5
<b>6,889,914</b> 170:25	231:22 236:8,18	added 213:11	149:23
<b>62</b> 3:10 123:7	<b>abram</b> 175:6	222:17 228:17	aircraft 59:9,24
<b>6:12</b> 240:5	absolute 38:11	adding 155:20	65:1 132:23
<b>6:38</b> 1:17 248:18	absolutely 30:18	245:14 246:2	airline 197:2
7	60:21 160:15 171:9	additional 106:2	airport 23:2,2 25:5
<b>7</b> 14:8 15:5 21:10	213:23	address 121:11	34:6 40:1 41:3 43:1
21:14,17 111:15	accepted 214:7	adduced 4:3	44:12,20 45:6,18
<b>7,255,116</b> 1:2 156:6	accommodate	adhere 27:6	45:20 50:6 52:8
<b>7255116</b> 19:23	132:10 138:14	adhered 48:19	54:17 56:4 57:18
60:10	169:25 189:16	52:20	58:13,23 61:22,23
<b>74</b> 140:20,21	accomplish 68:17	adheres 27:9	62:18 63:6 64:7
145:12	77:7,11 82:18 86:2	admissions 92:16	66:19 67:14 70:22
8	133:3	93:3	71:20,21 77:6,24
	accomplished	admit 153:22	124:16 125:14
<b>8,510,905</b> 14:11	52:24 53:1 129:12	advantage 149:9	132:21 144:9 207:5
<b>80s</b> 9:22	129:12	advantageous	208:5,25 212:5
<b>81</b> 147:18 151:17	account 69:23	127:19	220:6 227:24 233:2
152:22	120:1 129:25	advise 190:2	airports 38:22 39:5
<b>82</b> 9:24,25	153:23	advised 190:2	57:15
<b>8510905</b> 21:12	accuracy 97:7	211:8	<b>alleged</b> 166:24
9	accurate 86:19	<b>afield</b> 177:13	<b>allow</b> 104:11 165:9
<b>9</b> 18:11	153:17 164:7	aggressive 245:5	<b>allowed</b> 176:7
<b>905</b> 41:6,12 60:23	227:15	ago 55:23 103:23	allows 104:9,12
61:1,11 62:1,10,17	accurately 180:22	246:17	<b>alluded</b> 108:6
68:18 79:20	accused 166:17,24	agree 8:22 9:1,3	ambient 142:23
<b>908</b> 236:23	176:6,8,11 177:21	43:10 49:23 60:22	147:20 148:9
<b>90s</b> 212:9 233:17	178:2,19 179:5,12	65:16 74:18 84:16	amount 177:17
<b>98</b> 213:17	179:15 180:2,5,6	92:21 97:1 105:13	analogous 124:1
	181:11,12,13,20,25	106:7 114:14,15	analysis 20:23
	achieve 36:3	119:5 127:21 142:1	118:22 120:2,15
	168:12 237:20	117.3 127.21 142.1	110.22 120.2,13

angled226:11181:1944:22 47:13 50:2art7:19answer18:1,5,6,8anyone's222:3apply55:510:7,1234:19 41:10 56:12anyways204:12applying55:1318:24 264:11 82:10,10apart30:3 46:24appreciate246:2432:19 396:16 107:20apparatus122:23approach97:434:15 3119:18 130:8apparatuses159:240:5 42134:15,24 140:1,3102:18approached209:2344:9,11140:13 146:25,25appeal1:1 100:22approximately45:16 4159:10,11 168:16appearances2:1109:11 110:2258:6 59183:6,9 190:2,5,18appeared249:6112:12 120:2062:21,24191:23 202:5 205:2appears182:6123:13,18 240:1365:19 6210:20 211:7,9,19applicable18:16area25:16 33:4,1567:5 68	
analyze171:4anybody183:13141:25205:1arrive1analyzed21:1206:3215:11210:14212:4,25135:1628:1735:9178:24242:14236:15239:2168:12andriy2:3175:10anymore9:841:10applied28:16189:5angled226:11181:1944:2247:1350:2art7:19answer18:1,5,6,8anyone's222:3apply55:510:7,1234:1941:1056:12anyways204:12applying55:1318:2464:1182:10,10apart30:346:24appreciate246:2432:193296:16107:20apparatus122:23approach97:434:1534140:13146:25,25appeal1:1100:22approached209:2344:9,11140:13146:25,25appeal1:1100:22approximately45:1645149:25151:4appear29:2230:487:188:4,6,8,9,1654:7,9,19159:10,11168:16appearances2:1109:11110:2258:659183:6,9190:2,5,18appeared249:6112:12120:2062:21,2191:23202:5205:2appears182:6123:13,18240:1365:19210:20211:7,9,19applicable18:16area25:1633:4,1567:568 <th>7:20</th>	7:20
analyzed21:1206:3 215:11210:14 212:4,25135:1628:17 35:9 178:24242:14236:15 239:2168:12andriy2:3 175:10anymore9:8 41:10applied28:16angled226:11181:1944:22 47:13 50:2art7:19answer18:1,5,6,8anyone's222:3apply 55:510:7,1234:19 41:10 56:12anyways204:12applying55:1318:24 264:11 82:10,10apart30:3 46:24appreciate246:2432:19 396:16 107:20apparatus122:23approach97:434:15 3119:18 130:8apparatuses159:240:5 42134:15,24 140:1,3102:18approached209:2344:9,11140:13 146:25,25appear29:22 30:487:1 88:4,6,8,9,1654:7,9,1159:10,11 168:16appearances2:1109:11 110:2258:6 59183:6,9 190:2,5,18appeared249:6112:12 120:2062:21,2210:20 211:7,9,19applicable18:16area25:16 33:4,1567:5 68	
28:17 35:9 178:24 andriy 2:3 175:10 angled 226:11242:14 anymore 9:8 41:10 181:19236:15 239:2 applied 28:16 44:22 47:13 50:2 apply 55:5168:12 189:5 2 art 7:19answer 18:1,5,6,8 34:19 41:10 56:12 64:11 82:10,10 96:16 107:20anyways 204:12 apparatus 122:23 apparatus 122:23 apparatus 122:23 approach 97:4apply 55:5 applying 55:13 approach 97:4168:12 189:5 2 art 7:19119:18 130:8 140:13 146:25,25 183:6,9 190:2,5,18 191:23 202:5 205:2 210:20 211:7,9,19aparatus 122:23 appear 182:6 appears 182:6approached 209:23 109:11 110:22 236:15 239:244:9,11 34:15 3 34:19	31:14
andriy2:3 175:10 angledanymore9:8 41:10 181:19applied28:16 44:22 47:13 50:2 art189:5 2 artanswer18:1,5,6,8 34:19 41:10 56:12 64:11 82:10,10anyways204:12 apartapply 55:5 apparatus10:7,12 apply 55:1396:16 107:20 19:18 130:8 140:13 146:25,25 183:6,9 190:2,5,18 191:23 202:5 205:2apparatus122:23 appearedapproached209:23 44:9,11 appeared191:23 202:5 205:2 210:20 211:7,9,19applicable18:16109:11 110:22 appeared36:16 33:4,15	145:25
angled226:11181:1944:22 47:13 50:2art7:19answer18:1,5,6,8anyone's222:3apply55:510:7,1234:19 41:10 56:12anyways204:12applying55:1318:24 2464:11 82:10,10apart30:3 46:24appreciate246:2432:19 396:16 107:20apparatus122:23approach97:434:15 3119:18 130:8apparatuses159:240:5 42134:15,24 140:1,3102:18appeal159:240:5 42149:25 151:4appear29:22 30:487:1 88:4,6,8,9,1654:7,9,1159:10,11 168:16appearances2:1109:11 110:2258:6 59183:6,9 190:2,5,18appeared249:6112:12 120:2062:21,291:23 202:5 205:2appears182:6123:13,18 240:1365:19 6210:20 211:7,9,19applicable18:16area25:16 33:4,1567:5 68	188:24
answer18:1,5,6,8anyone's222:3apply55:510:7,1234:1941:1056:12anyways204:12applying55:1318:242464:1182:10,10apart30:346:24appreciate246:2432:193296:16107:20apparatus122:23approach97:434:1534119:18130:8apparatuses159:240:542134:15,24140:1,3102:18approached209:2344:9,11140:13146:25,25appeal1:1100:22approximately45:16149:25151:4appear29:2230:487:188:4,6,8,9,1654:7,9,1159:10,11168:16appeared249:6112:12120:2062:21,2183:6,9190:2,5,18appeared249:6112:12120:2062:21,2191:23202:5205:2appears182:6123:13,18240:1365:19210:20211:7,9,19applicable18:16area25:1633:4,1567:568	17:4 228:22
34:19 41:10 56:12 64:11 82:10,10anyways 204:12 apart 30:3 46:24 apparatus 122:23 apparatus 122:23 approach 97:4applying 55:13 appreciate 246:24 approach 97:418:24 24 32:19 32 34:15 32 approach 97:419:18 130:8 134:15,24 140:1,3 140:13 146:25,25 149:25 151:4apparatuses 102:18 appear 29:22 30:4159:2 approached 209:23 87:1 88:4,6,8,9,1644:9,11 45:16 42 45:16 42 approximately19:23 202:5 205:2 210:20 211:7,9,19appeared 249:6 applicable 18:16102:11 10:22 appear 29:22 30:4 appeared 249:687:1 88:4,6,8,9,16 112:12 120:2054:7,9,12 62:21,24	8:19 9:17
64:11 82:10,10 96:16 107:20apart30:3 46:24 apparatusappreciate246:24 246:2432:19 32 34:15 32 34:15 32 159:2119:18 130:8 134:15,24 140:1,3apparatuses 102:18159:2 appeal40:5 42 40:5 42140:13 146:25,25 149:25 151:4appeal1:1 100:22 appearapproximately 87:1 88:4,6,8,9,1642:16 42 54:7,9,18159:10,11 168:16 183:6,9 190:2,5,18appeared249:6 appears112:12 120:20 123:13,18 240:1355:19 6 65:19 6191:23 202:5 205:2 210:20 211:7,9,19applicable18:16area25:16 33:4,1567:5 68	,13 18:22
96:16 107:20 119:18 130:8 134:15,24 140:1,3apparatus 122:23 apparatusesapproach 97:4 159:234:15 3 40:5 42 40:5 42 approached 209:23140:13 146:25,25 149:25 151:4102:18 appear 29:22 30:4approached 209:23 44:9,1144:9,11 45:16 4 45:16 4159:10,11 168:16 183:6,9 190:2,5,18appear 29:22 30:4 appeared 249:687:1 88:4,6,8,9,16 112:12 120:2054:7,9,1 54:7,9,1191:23 202:5 205:2 210:20 211:7,9,19appeared 18:16123:13,18 240:13 area 25:16 33:4,1565:19 6 67:5 68	6:25 30:13
119:18 130:8apparatuses159:240:5 42134:15,24 140:1,3102:18approached 209:2344:9,11140:13 146:25,25appeal 1:1 100:22approximately45:16 4149:25 151:4appear 29:22 30:487:1 88:4,6,8,9,1654:7,9,1159:10,11 168:16appearances 2:1109:11 110:2258:6 59183:6,9 190:2,5,18appeared 249:6112:12 120:2062:21,24191:23 202:5 205:2appears 182:6123:13,18 240:1365:19 6210:20 211:7,9,19applicable 18:16area 25:16 33:4,1567:5 68	3:15,15,17
134:15,24 140:1,3102:18approached 209:2344:9,11140:13 146:25,25appeal 1:1 100:22approximately45:16 4149:25 151:4appear 29:22 30:487:1 88:4,6,8,9,1654:7,9,1159:10,11 168:16appearances 2:1109:11 110:2258:6 59183:6,9 190:2,5,18appeared 249:6112:12 120:2062:21,2191:23 202:5 205:2appears 182:6123:13,18 240:1365:19 6210:20 211:7,9,19applicable 18:16area 25:16 33:4,1567:5 68	5:9 38:18
140:13 146:25,25 149:25 151:4appeal1:1 100:22 appearapproximately45:16 4 54:7,9,1159:10,11 168:16 183:6,9 190:2,5,18 191:23 202:5 205:2 210:20 211:7,9,19appearl249:6 appearl109:11 110:22 112:12 120:2058:6 59 62:21,24109:123 202:5 205:2 210:20 211:7,9,19appearl249:6 appearl112:12 120:20 123:13,18 240:13 area 25:16 33:4,1567:5 68	:3,6,21 44:1
149:25 151:4appear29:22 30:487:1 88:4,6,8,9,1654:7,9,1159:10,11 168:16appearances2:1109:11 110:2258:6 59183:6,9 190:2,5,18appeared249:6112:12 120:2062:21,24191:23 202:5 205:2appears182:6123:13,18 240:1365:19 6210:20 211:7,9,19applicable18:16area25:16 33:4,1567:5 68	,14,19 45:4
159:10,11 168:16 183:6,9 190:2,5,18 191:23 202:5 205:2 210:20 211:7,9,19appearances 2:1 appeared 249:6 appeared 249:6 112:12 120:20109:11 110:22 112:12 120:20 112:12 120:20 123:13,18 240:13 area 25:16 33:4,1558:6 59 62:21,20 62:21,20 65:19 6 67:5 68	7:25 51:19
183:6,9 190:2,5,18 191:23 202:5 205:2 210:20 211:7,9,19appeared 249:6 appears 182:6 applicable 18:16112:12 120:20 123:13,18 240:13 area 25:16 33:4,1562:21,24 65:19 6 67:5 68	
191:23 202:5 205:2 210:20 211:7,9,19appears182:6 applicable123:13,18 240:13 area65:19 6 67:5 68	:20 60:7
210:20 211:7,9,19         applicable         18:16         area         25:16 33:4,15         67:5 68	
	6:10,17,22
211:22 212:1 213:4   <b>application</b> 14:23   33:16 40:5 44:2   71:22 7	:9,14 71:9
	3:11 74:5
	4,25 75:18
	7:5,10,19
	3:17 84:3
220:9,14 221:2       49:1 50:21 51:2,5       68:10 91:2 104:5       85:7,13	
	8 89:13,22
	1:2 92:4
	8:3,6,11
	09:17,23
	111:12,24
	0,14,18,22
	15 114:21
	116:17,24
198:10 203:1         applications         13:17         227:8         117:11,	,
	17 119:20
	,11 121:20
95:18 119:17         35:3 38:6 39:6,21         argued 166:15         122:13	
	1,13 125:12
	130:13,19
	101 ( 107 -
	134:6 135:6
99:4 100:7 157:8 71:6,7 75:5 77:23 138:1,2	17,21 136:1

142:24 143:8,16	articulated 102:4	135:12,13 138:22	assembly 172:12
144:7,20 145:16	103:19 106:7 130:1	141:8 142:17	<b>assert</b> 12:10
146:5 147:6 150:13	articulating 104:6	146:13,14,16,20,22	asserted 8:10
151:5 153:2,5	124:7 230:10	148:17,24 149:15	<b>assigned</b> 172:11,17
156:19,19 158:4	articulation 104:12	150:2 155:21 156:7	215:20
162:18 163:7,21	<b>artificial</b> 122:22,24	156:8 159:9,12	associate 45:16
164:19 165:17	139:24 140:7	163:6 167:3,11,11	<b>assume</b> 89:22,24
166:16 168:5,24	144:10 161:19	173:3 178:6 181:19	123:1 182:16
169:8,20 176:10	208:22 243:15	184:24,25 191:12	206:11 214:18
178:20 179:8 185:9	<b>arts</b> 149:21 150:20	191:21 198:18	assuming 100:3
185:10,20 186:17	198:1 244:7	200:11 201:15	101:16 129:18
186:19 191:9 193:9	<b>aside</b> 103:17	205:6 207:2 213:24	130:2 132:19,25
195:24 196:20	<b>asked</b> 9:6 29:5	214:23 215:11	134:8 150:11
197:14 198:22	34:18 64:20 65:5	217:11,24 219:25	154:17
199:7,17,18,21	68:20 77:6 78:19	220:2 223:6,13,14	assumption 148:20
200:12 201:1 203:2	106:16 107:18	224:5 229:15 238:1	153:16,18,20
203:15 204:12,15	119:21 134:7 147:1	244:10	assumptions
205:9,15 206:1,2	147:2 163:23 165:8	asks 56:2	199:14,15
208:12,17,21 209:9	168:15 170:11	<b>aspect</b> 17:23	astroturf 85:15
209:15,22 210:10	176:14,16 185:21	aspects 16:10 30:21	atmospheric 65:21
210:17,23 213:1	188:7 190:21 191:3	30:22 31:25 32:5	65:23,24 66:2,3,12
214:1,4,8,11,19	204:19 207:22	121:22 122:1 168:3	69:20 75:25 77:3
215:9,16,16,22	209:14 214:15	241:7,20	86:8 91:4 98:17
216:2,24 217:1	216:9,10 243:23	asphalt 22:22,24	147:20 150:21
218:5,16,19,24	246:16	24:16 27:6,9 33:5	154:13 163:22
219:22 220:24	asking 15:17,22	33:17 34:9 39:6	247:4
221:5,6,13,16,24	16:16,17 18:14	42:22 43:5 46:4,5	attached 62:22
222:1,17 223:6,22	27:21 31:7,13,15	46:16,17,21,22,23	76:18 116:13
223:22,25 224:11	31:15 33:13,14	47:2,5,6,9,11,12,18	209:19
224:13,14,24 225:5	34:13 40:25 45:3	48:13,15,15,17,19	attempting 23:17
225:5,9 226:13	48:2,9 51:10 53:18	48:22,23,25 49:5,6	attention 52:18
227:8 228:21	53:22 55:19 59:16	49:7,9,9,11,14,19	100:10 109:7 123:4
229:17 230:6	72:8 82:7 83:15	50:7,11,20,21 51:1	247:20
231:10,13,14,18,21	85:6,6 93:6 94:23	51:8,18 52:21,22	<b>attorney</b> 1:14 2:6
232:3,16 233:3,20	95:18,21 96:8	53:20,23 57:24	2:12 11:5 18:19
234:8,11,21 237:5	97:25 102:14 104:3	58:14,25 59:6,17	241:8 250:12,13
237:7 238:5,8,12	104:18 112:6,9	59:23 61:16,18	attorneys 2:4,10
239:6 241:20 242:9	119:11,12,14,16	62:23 65:1 68:22	10:6,12,24 16:14
244:25 245:14	128:13 130:7	71:2 79:21 132:23	16:16,22 17:14
246:2	131:12 133:24	160:19 197:5 209:1	18:15 30:25 31:5
	134:3,17,20,22		31:22,23 91:18

122:3,4 151:19	213:24 233:20	<b>beach</b> 2:11	179:20,21 180:17
240:15 241:6	backing 245:9	beads 55:1	<b>biased</b> 167:5
<b>atv</b> 191:16	<b>bad</b> 51:9	<b>beat</b> 95:11,12 222:3	biasness 7:18
authored 92:10	ballpark 159:12	<b>bed</b> 76:20 116:14	<b>bid</b> 206:12
authority 249:5	<b>bar</b> 42:24 80:8,10	132:13 138:10	<b>big</b> 29:17 39:18
authorized 250:7	83:11 158:15,15	144:13 156:2	47:6 54:13 55:3
auxiliary 230:13	159:1 161:2	<b>began</b> 9:22 163:1	136:17 139:8 169:5
available 95:14	<b>base</b> 61:6 184:13	beginning 93:21	229:10 230:2
124:22 192:19	228:8	112:3	<b>bigger</b> 38:1 244:22
193:9 195:14,15	<b>based</b> 9:19 15:16	<b>behalf</b> 7:12 176:19	244:23
210:24 221:8	40:10 69:4 70:1,17	belief 6:24	<b>biggest</b> 159:23
232:11 233:15	75:10 78:11 80:25	<b>believe</b> 6:13 9:22	<b>bit</b> 16:25 17:9
avenue 2:4	97:4 100:19 102:25	11:4 21:10 53:19	176:13,18
<b>average</b> 28:1,1	118:15 119:8	91:3 104:15 116:2	<b>blank</b> 103:7
aware 59:14 83:5	129:20,21 130:6	116:10 157:22	<b>blast</b> 30:16 113:25
84:8 93:3 115:11	131:15 135:3	180:21 215:25	115:22 124:7
127:8 128:18	142:23 148:7	believed 6:24	147:23 209:24
185:13 186:13	151:12 155:16	benefits 135:23	<b>blasters</b> 1:5 2:6
190:9 198:8 201:9	183:25 184:9,14	147:8 163:8	3:10,12,13,15,16
202:10 210:15	188:19 199:7 205:6	<b>best</b> 11:5 40:9	3:18,19,21,22 4:10
216:3 218:20 219:4	218:17 222:1,11	95:14,17 129:5	4:18 5:8,21,25 6:5
221:9 225:8 232:15	231:7,17	130:9 131:18	6:9 7:12 8:14 62:6
232:25 234:9,11,25	baseline 200:15	143:18 144:16	65:11 81:17 99:16
<b>axils</b> 191:14	basically 18:20	162:15,15,17 163:9	100:11 114:4 115:4
b	19:13 20:9 24:6	210:20 222:7,8,19	122:6,6,9 123:5
<b>b</b> 3:8 4:11 171:9,12	27:2 37:14,23	223:7 224:7,8,10	126:19,21,25
172:22 173:18	46:24 47:10 55:8	224:12,17,18	130:25 131:1,5
back 17:5 36:25	88:18 93:17 94:8	228:19,22 229:4,6	147:16 158:19
37:3 38:17 41:25	104:7,24 109:2	229:12,13,18,21	170:12,14,24 175:9
76:1 84:14 99:14	111:11 121:14	230:7,18 232:1	175:25 176:24,25
133:6 139:11,13	128:24 132:8	237:7 242:1 245:22	177:5 178:24
147:15 150:4 154:7	133:18 139:14	<b>better</b> 42:14 125:20	186:25 187:1,5,6
156:7 159:25	143:15 153:1 157:1	135:25 141:15	205:10 211:13
165:13 166:9	162:13,14 164:2	169:4 171:20	215:25 225:22,23
	183:11 244:15	196:21 244:21	226:2,23 233:24
167:22 175:1 183:8 217:23 219:9,10	basing 129:19	245:10	235:2,4,8
225:12 242:13	136:23	<b>beyond</b> 45:12 78:6	blasting 22:23 33:5
243:21 245:9	<b>basis</b> 101:14,25	<b>bias</b> 7:22 9:12	61:18
	102:10 103:19	93:25 112:4 119:15	<b>board</b> 1:1 100:23
<b>background</b> 15:8	104:3 120:22 184:1	141:6 166:20 167:1	167:18,20,21,23
123:23 173:15	185:24	177:8,13,18 178:17	174:20 175:2,5,12
190:19 211:11			, , ,

## [board - case]

175:15,18,23	140:16,22,24 141:2	<b>build</b> 13:14 25:22	bypass 38:2
176:13 178:5,12,18	141:10,13,18 142:1	26:8,14 38:23 39:8	с
179:10,24 180:9	142:7,14,19 143:2	79:18 82:14 89:12	<b>c</b> 171:12 187:7
181:1,6,9,16,22	143:9,14,14 144:2	95:13 131:17 138:2	cabin 228:12
182:1,9,10,14,21	145:25 168:4,11,20	143:17 144:16	<b>call</b> 148:15 167:18
183:1 190:6 214:7	185:5,6,14,25	161:25 162:2,19	167:20,21,23
<b>body</b> 151:1 226:14	186:16 188:13	163:9 191:10 202:2	173:12,13 174:20
226:18 227:4,15,16	193:10,16 195:17	222:6 223:7,9,16	175:5,24 190:6
<b>boiler</b> 236:24 237:4	196:17 197:6,7,15	223:18,19 224:8,10	227:16,17 247:17
237:9	198:7 201:2 202:7	224:12,16 228:6	<b>called</b> 38:2 59:10
boilers 237:2	216:7,19 217:3	229:17 242:1	160:22 208:5,6
<b>bold</b> 231:8	218:22 219:4,22	<b>building</b> 25:11 26:5	213:12 233:22
<b>bonded</b> 48:21 49:4	222:12,16 224:2,13	95:19 163:14,16,19	capability 111:8
<b>boos</b> 1:12 4:2,16	239:6 242:18,23	201:17 211:15	112:19 113:4 118:8
7:5 21:19 23:15,23	243:13	212:7,8 224:18	112.19 113.4 118.8
166:22 176:24	<b>bri</b> 65:16	228:19 229:11	245:20
180:15 240:14	<b>brief</b> 41:22 186:23	230:2,19,19,22	<b>capable</b> 19:13
246:22	239:17 240:4	233:12 237:7	25:18 36:14 50:5
<b>booster</b> 123:12	248:13	238:14 241:25	57:8 87:1 108:12
<b>bottom</b> 173:10	briefly 74:2 75:8	<b>builds</b> 123:12	109:11 112:12
boulevard 2:11	115:18	191:10 214:5,9	120:20 121:5 209:6
<b>box</b> 14:13 22:12	broad 14:2 15:16	<b>built</b> 23:1 26:18	239:8 243:20
37:14 41:12 46:25	27:13 56:15,16	41:2 61:21 70:1,17	capacities 211:14
48:4,5 60:25 61:2,2	61:671:773:17,18	81:5,16,20,24	capacity 81:17
61:8,8 105:1,5,5	75:10,13 80:9	82:20 95:16 162:20	87:20 111:2,20
192:1 226:19	83:10 97:4 155:19	189:23 190:15,23	118:8
227:12 236:24	158:17 159:10,12	193:15 205:10	<b>caption</b> 4:17
<b>boxes</b> 42:18,21	178:13 180:16	210:19 211:2	captioned 7:13
brands 141:24	201:18,18 202:4	212:21 213:6	▲
break 41:17,19	238:24	214:22 215:1,6,12	<b>captures</b> 172:25 <b>carrier</b> 59:25 65:2
72:25 99:1 108:7	<b>broader</b> 69:1,4	222:8,19,20 223:11	
147:11 183:3	75:13 78:11	223:12,20 224:6,20	132:24
186:22 239:14,15	broadest 28:16	233:9 242:6,9,11	carriers 59:9
239:24 240:13	65:15	<b>bunch</b> 230:23	<b>carry</b> 30:15
breither 126:25	<b>brochure</b> 130:23	business 99:17	<b>case</b> 1:2 4:13 7:25
127:11,13 128:17	146:14 164:15	134:11 171:10	68:2 90:25 91:16
128:20,21 129:2,4	brochures 130:22	<b>buster</b> 88:12	93:5,5 100:19,19
129:8,15,16,19	<b>brought</b> 247:20	<b>buy</b> 163:5,5	100:24 101:1,3,3,7
130:4,6,7,16	brown 21:21	<b>buying</b> 85:14	101:9,9,17,21
131:14,21 132:1	<b>brush</b> 172:7 173:10	<b>bye</b> 183:1	102:6,12,20,21
135:1,9,15 140:14	185:6	-	103:4,6,8,11,15,17
			103:18,21,22,25

## [case - cleared]

107:5,8,13,17,24	circumstances 97:3	<b>clarify</b> 181:23	111:19 112:25
133:11 221:8 224:9	103:6	220:3 223:9 241:24	113:1,13 115:19
categorize 13:7,10	<b>citation</b> 100:21	247:7	121:2,3,18 122:23
19:17 227:14 234:7	citations 100:23	clarity 182:8	124:8 127:4,6,7
cause 250:12	<b>cite</b> 107:4 187:12	<b>clean</b> 64:21 70:23	132:17,18 133:6,8
<b>center</b> 1:18 127:16	224:23 226:8	72:15,16,19 78:17	133:9,9,14 134:3
<b>ceo</b> 4:22,23 8:12	231:14	85:8,11 113:1	134:25 135:12
certain 14:1 36:1	<b>cited</b> 103:17,18	122:23 146:16,19	139:24 140:7 141:3
137:23 160:21	176:9 232:16	157:24 162:1,2,12	141:23 142:2,6
177:9	<b>cites</b> 107:12	204:16 206:13,24	144:23 145:17
certificate 3:5,6	<b>citing</b> 217:13	207:5 208:14,22	147:19 154:11,25
249:1 250:1	<b>city</b> 1:18 25:21	243:21	154:25 158:15,15
<b>certify</b> 249:5 250:6	66:16,20	<b>cleaned</b> 34:16 69:6	160:2 162:13,25
250:11	<b>claim</b> 19:4,11 45:2	123:11 204:2	163:13 165:14,16
<b>cfm</b> 88:16,17	69:13,24,25 76:3	207:11 210:6,6	165:17 171:14
109:11 110:16	94:9 111:14 118:23	<b>cleaner</b> 122:22	184:3,7,19,20,20
111:9,12,18,24	121:14 122:13	127:8 137:7,14	185:1,14 186:8,15
113:2 118:14,14	132:16,17 133:3,16	139:8 144:10	186:16 189:20
120:20 121:6,7,15	134:1 146:17	155:21 157:6 163:5	193:15,17 199:23
121:16 157:18	147:22 160:1	183:20 202:20	200:17,24 203:20
<b>change</b> 85:23	166:14 178:14	cleaners 139:12	203:21 204:8,9,20
236:15	196:19 197:14	184:11	204:22,23,24
changed 93:1	199:23 204:24	cleaning 20:4,5	205:17,19 207:13
<b>chaotic</b> 174:6,11,16	207:13 247:25	24:11 26:10 29:12	207:14,16,19,20,25
183:7,11 245:4	claimed 43:21	29:13,14,14 33:9	207:25 208:3,5,6,7
characteristic 36:9	69:15,18 71:15	42:15 43:8,16 51:2	208:10,18,20 209:3
characteristics	76:4 86:7 120:3	52:3 56:15,16,17	210:10,12 237:21
36:3,15,22 79:6	154:11 177:22	60:24 61:4,7 63:20	237:24,25 238:22
characterization	178:3	63:25 64:5,8,11,12	238:23 243:15
71:23	claiming 119:15	67:11,16 69:7,16	244:2,4 246:5
<b>chart</b> 83:18	<b>claims</b> 18:21,21,24	69:19 70:13,15,25	cleanings 41:9
<b>charts</b> 83:14,16	20:6 29:22 72:12	71:2,5,10,15,18,21	160:3
<b>chassis</b> 132:9,10	92:17 94:8 108:8	72:11,13 73:6,8,18	cleanliness 64:14
157:2,3 220:19	111:14,15 120:23	73:25 74:2 75:8,17	<b>cleans</b> 71:19 73:19
228:12,12	121:3,13 124:11	75:18,19,20,20	73:22
chemically 48:21	133:7 146:17 160:1	76:5 78:3,3,4,12	<b>clear</b> 6:3 12:25
<b>chime</b> 177:17	196:19,19 198:2	79:19 84:17,22	17:21 123:5 149:24
<b>choose</b> 210:16	200:18 204:23	85:15 86:7 89:14	183:10 238:21
<b>chose</b> 98:15	218:18 221:10	91:9,23,24 97:23	240:25 243:11
<b>chute</b> 14:14	247:24	98:13,13 102:18	cleared 182:2
		104:21 111:13,16	

# [clearly - column]

clearly 153:5	132:18,20,20	99:5,9,13 102:8	212:2,23 213:10,23
clemons 75:19	133:14,22 134:8,18	105:12,17 106:14	214:10,16 215:9,13
235:9 236:5,16,20	135:3 138:2,3	107:25 108:19,24	215:15 216:6,18
237:8,20 238:5,9	144:8 146:10	110:1,8,17 111:5	217:10,19 218:4,14
239:7 245:15,16,16	199:24 204:1	114:13 115:5 116:5	219:8,16,23 220:10
246:3,4	207:14,15 208:24	117:18 119:4,24	220:20 221:23
coating 26:4,5	209:3 219:3 228:7	120:7 121:9 122:11	222:23 223:3,6,13
28:11,13 29:15,16	233:2 235:18 236:9	122:20 123:20	223:15 225:4,14,21
38:9 47:19 48:13	238:6 246:15	126:19,23 130:11	225:25 228:5,16
48:16 50:14 51:17	<b>code</b> 7:3	130:24 131:3,19	229:2 230:21 231:6
51:24 53:23 54:11	<b>cohen</b> 2:9 3:3 4:7	133:20 135:5 136:7	232:12,22 233:10
54:12,14 63:18,19	5:7,14,19,24 6:2,7	137:6 138:7 139:7	234:6,22 235:2,6
66:18 67:17,21,21	8:21 9:2,9,15 10:20	140:5,10 141:4,16	236:19 239:15,18
67:22 74:21 75:11	11:7 13:3,12,16	143:4,19 145:4	240:3,6,9,12,21
114:24 158:4,13	15:4,20 16:8,9,23	146:6 147:12,14	246:20 248:10,14
160:21 161:15	17:4,6,7,15,19 18:4	151:9 154:5,21	<b>cold</b> 123:9
209:15,18,25	18:10 19:22 20:14	155:3,15 156:4,12	collaborated 12:5
227:23 235:17	20:18,24 21:3,8	158:18 163:11	16:13 121:25 122:1
245:8	22:17 23:11,14,22	164:4,17 165:19	collaboration 11:1
<b>coatings</b> 22:22 23:1	24:14,24 26:13	166:10,19 167:16	12:2,3 241:5,13
24:5,7,9,16,17	27:16,24 28:4 29:7	167:19,24 168:9,22	collaborative 10:5
25:13,15,18,23	30:1,10,19 31:6,14	169:13 170:7,12,16	10:11,23 12:20
26:10 29:8,18,22	31:24 32:4,9,13,14	172:9 173:11 174:4	16:12 17:2,12,18
33:10,18 35:23,24	33:2,12,24 34:4,8	174:14 175:14,20	17:21 18:3,9 30:24
35:25 39:5,12,13	34:21 35:13,21	175:21 176:19,19	31:5 91:13,17
41:15 42:12,25	36:6,20 38:7 39:2	178:7,21 179:14	121:24 151:18
43:2,9,17 44:20,22	39:22 40:3 41:19	180:7,11 181:5,15	152:1,4,23,25
45:17,19,23 46:1	41:24 42:16 43:7	182:7,13,20,25	153:3
47:18,20,22 50:5	44:8,18 45:1,9 46:3	183:2,5,9,18 184:8	<b>collect</b> 42:21
51:15 54:7,9,19	46:9 50:18 52:15	186:2,21,25 187:3	collecting 46:4
55:1,7,10,12,17,20	53:3,7 54:6 55:16	188:16,23 190:8,19	226:10,14
55:25 56:4,5,12,15	56:8 58:5,21 59:4	190:25 191:8,20	collection 14:13
56:16,22,22 57:4,5	60:9 62:8,15 63:4	192:12 194:17	41:12 42:18
57:9,22 58:12,18	64:4,16 65:9 69:10	195:16 196:9,13	collects 50:11
58:18 59:22 61:9	70:8 72:6,7,16,20	198:5,13,24 199:19	<b>column</b> 21:25 22:4
61:16,21 62:18	73:2,9 74:24 77:4	200:9 201:12	22:8 32:10,16 42:1
67:13,13,14 68:19	78:9,25 79:10,25	202:14 203:5,12	42:2 74:2,8 76:6,8
70:10,16,21 74:3	80:12,23 81:9 82:1	204:13 205:13	76:11 77:20 86:10
74:19 75:2,9 77:18	82:13 83:3 86:14	206:21 207:12	86:23 87:8 90:19
77:24 82:2 86:22	86:20 88:2 89:4	208:16 209:13	109:7,8,8 113:10
115:19 124:15	90:4 94:10,18 96:7	210:8 211:4,10,23	113:16,21 115:16

# [column - configure]

			1
116:11,12 123:4,7	208:14,18,19	comparison 178:22	237:13 238:18
173:15 174:3 200:1	209:24 225:12	179:2	244:16
233:21	231:18 232:4	competitor 13:20	composed 11:15
<b>com</b> 23:3 61:23	241:21,21	13:22 39:23 88:24	28:5
combination	<b>comes</b> 66:14 142:12	89:3,5,6,10,21	composite 49:24
125:16 128:24	<b>coming</b> 22:4,10	172:19	composites 25:4
135:15,16 143:12	66:6 101:25 150:9	compilating 11:8	compositions 25:15
160:24 188:13	174:20 187:21	complain 177:11	54:13
196:17 197:6 198:6	243:9	complete 16:5	compound 68:24
199:7 202:7,10,11	commencing 1:16	46:14 61:19 139:2	compounds 39:16
211:5 215:2 218:2	comment 151:8	139:3,5,20,21	42:23 43:6 50:12
222:13 230:24	commission 249:20	156:23 201:7,9,14	comprehensive
231:24 232:3 233:3	common 19:2	201:16,17,18,20	199:5 229:22
241:14	124:22,23 144:15	202:4 207:1 250:9	comprised 27:4
combinations	192:4,4,5	completed 196:7	concerned 44:3
195:17 196:2 219:3	commonality 103:1	completely 31:12	66:10
220:18	103:2	217:25	concise 78:8
<b>combine</b> 125:18	commonly 19:2	<b>complex</b> 27:5 85:15	concluded 248:18
130:15 131:13,21	75:21 85:25 95:15	component 87:11	conclusion 6:14
143:16 145:25	125:9 128:25	188:10,21 193:23	135:16 153:10
156:9,19 168:11	133:11 135:22	components 19:1,2	conclusions 129:19
200:24 201:1	136:4 143:17	19:2 57:12 85:25	131:15 241:20,21
203:25 214:1	156:17 158:3	95:15 104:9,20	241:22,23
216:24 217:3	162:16 193:5 203:3	106:6 124:22,24	<b>concrete</b> 22:23,24
231:22 238:12,13	208:21 210:23,24	125:2,9 126:15	24:16 32:20 33:5
242:19,24 243:12	217:1,2,7 227:20	127:21 128:25	33:18 39:7 49:13
243:12,17 246:9	227:25 236:10	133:11 135:22	49:17,18 51:1,8,18
<b>combined</b> 140:14	237:1 238:18	136:2,3 138:11,13	52:11 53:23 57:24
140:15 141:15	commonplace	143:17 144:14,15	58:14,25 59:6,18
202:20 203:23	232:9	147:9 152:22	59:24 61:16,18
220:13 234:19,25	<b>company</b> 4:18,20	156:17 162:15	62:22 65:1 132:23
combines 195:1	4:25 9:10 38:23	178:3 189:4,8,17	160:10,10,18 197:5
218:20	39:7 81:16 166:23	189:24 190:10	209:1
combining 144:11	173:21 188:8,8	191:2,15 192:9	<b>conduct</b> 168:13
162:15 220:18	233:14	193:6 195:7 197:14	conference 35:7
230:23 242:23	compare 18:21	198:22 209:8,24	configuration
245:21	compared 132:3	210:23 213:18	160:6,17 161:1,14
<b>come</b> 5:17 8:20	198:2	214:22 217:8 222:2	configurations
46:24 47:11,12	comparing 18:24	229:24,25 230:1,6	52:12
130:16 142:18	123:23	230:9 231:23 232:9	configure 158:6
155:16 183:8		234:19,20 236:22	
	1		

## [configured - counsel]

configured 1	33:2 44:13,1	7 45:11,14 <b>continue</b>	e 130:18	21:4,13,16,17,17
158:20 160:2		3:15 117:8 225:2		21:19,20,23 26:23
confines 144	:2 117:9,1	6,22 120:12   continue	ed 99:12	27:6 28:18 29:4
confusion 10	1:12 150:22,	23 154:17 186:24	.	34:10 40:21 43:20
conjunction	44:21 178:11	221:24 contract	25:22	46:14,15 52:16
46:13 86:23	247:13	contract	or 55:14	55:18 60:11 68:15
connect 80:1	104:6 <b>consider</b>	ing 169:1 contribu	ite 16:25	71:20 86:18 87:14
143:8	241:19	242:15 17:9,2	3 30:20 31:1	88:21 100:17,18
connected 86	5:24 <b>considers</b>	s 151:2 31:8,1	8 121:21	104:3 106:17 107:7
87:2 100:14,	17 consisten	it 68:8 151:16	152:21	108:14,16 114:2
101:5 102:3,	11 104:15	115:12 <b>contrib</b>	ited 10:9	115:15 118:21
104:5,24 105	5:3,10 <b>constant</b>	139:16 10:15,	22 15:25	122:14 128:10
105:11,14,18	8 106:5 <b>constitut</b>	es 221:5 16:11,	18 17:3,3	130:17,21 131:9,10
106:6,11 109	9:9,12   construct	t 189:20 30:22	31:17,22,23	131:11 133:22,23
115:21 140:1	construct	ted 58:14 32:69	1:16 101:11	140:18 145:22
187:16 243:7	7,10 <b>construct</b>	ting 25:17 152:3		148:10,14 152:4,7
250:14	115:9 2	12:3 contribu	ting 152:8	154:1,22 157:5,23
connection 1	04:8 construct	tion 19:5 contribu	ition	160:23 163:17,18
104:11 105:7	7,7 104:15	118:23 152:19	)	169:14 170:9
106:12,12 10	)7:4 <b>construct</b>	tions contribu	itions	171:17,23 172:11
connections	107:19 178:14	91:15		172:16,18,21,24
connects 104	:25 construct	tive control	37:14 38:2	180:6,7 181:4
consider 9:10	6 223:10	convenie	ent 142:22	182:5 189:22 194:5
14:17 29:10	30:4 construct	tively convenie	ently	194:18 195:25
33:17 44:11	45:5 223:11	155:18	180:25	205.10 214.10 20
58:9 62:11.2				205:19 214:19,20
,		19:10 convent	ion 50:23	205:19 214:19,20 216:12 218:18
58:9 62:11,2 68:10 90:18				
,	94:13 construe	d 46:1 convent	ion 50:23 ional 47:8	216:12 218:18
68:10 90:18 109:17 110:2 112:14,18 11	94:13construe20,21108:1216:18148:2	d 46:1 convent 145:13 76:19 conversa	ion 50:23 ional 47:8 116:14	216:12 218:18 220:3 227:7 232:23 232:24 241:12 244:14 248:5
68:10 90:18 109:17 110:2	94:13construe20,21108:1216:18148:212,20construir	d 46:1 convent 145:13 76:19 conversa ng 149:8,9 18:15	ion 50:23 ional 47:8 116:14	216:12 218:18 220:3 227:7 232:23 232:24 241:12 244:14 248:5 correctly 161:7
68:10 90:18 109:17 110:2 112:14,18 11	94:13construe20,21108:1216:18148:212,20construir	d 46:1 convent 145:13 76:19 conversa ng 149:8,9 18:15	ion 50:23 ional 47:8 116:14	216:12 218:18 220:3 227:7 232:23 232:24 241:12 244:14 248:5
68:10 90:18 109:17 110:2 112:14,18 11 116:19 117:1	94:13construe20,21108:1216:18148:212,20construin19:20contain	d 46:1 convent 145:13 76:19 conversa ng 149:8,9 18:15 171:21 conveyin	ion 50:23 ional 47:8 116:14 ations	216:12 218:18 220:3 227:7 232:23 232:24 241:12 244:14 248:5 correctly 161:7 197:5 219:7 corresponded
68:10 90:18 109:17 110:2 112:14,18 11 116:19 117:1 118:13,19 11 149:1 150:8, 163:19 164:1	94:13construe20,21108:1216:18148:212,20construin19:20contain13contained19,21242:22,	d46:1convent145:1376:19ng149:8,9171:21conversid132:325245:672:19	ion 50:23 ional 47:8 116:14 ations ng 108:13	216:12 218:18 220:3 227:7 232:23 232:24 241:12 244:14 248:5 <b>correctly</b> 161:7 197:5 219:7
68:10 90:18 109:17 110:2 112:14,18 11 116:19 117:1 118:13,19 11 149:1 150:8,	94:13construe20,21108:1216:18148:212,20construin19:20contain13contained19,21242:22,	d 46:1 145:13 ng 149:8,9 171:21 d 132:3 convent 76:19 convers 18:15 conveyin copy 72	ion 50:23 ional 47:8 116:14 ations ng 108:13 2:3,6,15,16	216:12 218:18 220:3 227:7 232:23 232:24 241:12 244:14 248:5 correctly 161:7 197:5 219:7 corresponded
68:10 90:18 109:17 110:2 112:14,18 11 116:19 117:1 118:13,19 11 149:1 150:8, 163:19 164:1	94:13construe20,21108:1216:18148:212,20construin19:20contain13containee19,21242:22,7,12containee20contemple	d       46:1       convent         145:13       76:19       convers         ng       149:8,9       18:15         171:21       conveyin         d       132:3       copy         25 245:6       72:19         r       183:15       corp 17         late       229:3       corpora	ion 50:23 ional 47:8 116:14 ations ng 108:13 2:3,6,15,16 72:17 tion 113:22	216:12 218:18 220:3 227:7 232:23 232:24 241:12 244:14 248:5 correctly 161:7 197:5 219:7 corresponded 241:7
68:10 90:18 109:17 110:2 112:14,18 11 116:19 117:1 118:13,19 11 149:1 150:8, 163:19 164:1 164:22 165:7	94:13construe20,21108:1216:18148:212,20construin19:20contain13containee19,21242:22,7,12containee20containee5:14contemple	d       46:1       convent         145:13       76:19       convers         ng       149:8,9       18:15         171:21       conveyin         d       132:3       copy         25 245:6       72:19         r       183:15       corp 17         late       229:3       corpora	ion 50:23 ional 47:8 116:14 ations ng 108:13 2:3,6,15,16 72:17	216:12 218:18 220:3 227:7 232:23 232:24 241:12 244:14 248:5 correctly 161:7 197:5 219:7 corresponded 241:7 corresponding 98:6 costs 229:9
68:10 90:18 109:17 110:2 112:14,18 11 116:19 117:1 118:13,19 11 149:1 150:8, 163:19 164:1 164:22 165:7 168:25 201:2 244:8,25 245 246:2 247:3,	94:13construe20,21108:1216:18148:212,20construin19:20contain13contained19,21242:22,7,12contained20contemple5:14contemple15228:18	d       46:1       convent         145:13       76:19       convers         ng       149:8,9       18:15         171:21       conveyin         d       132:3       copy         25 245:6       72:19         r       183:15       corp 17         late       229:3       corpora         lating       114:4 3	ion 50:23 ional 47:8 116:14 ations ng 108:13 2:3,6,15,16 72:17 tion 113:22 205:10 .,25	216:12 218:18 220:3 227:7 232:23 232:24 241:12 244:14 248:5 correctly 161:7 197:5 219:7 corresponded 241:7 corresponding 98:6 costs 229:9 counsel 178:5
68:10 90:18 109:17 110:2 112:14,18 11 116:19 117:1 118:13,19 11 149:1 150:8, 163:19 164:1 164:22 165:7 168:25 201:2 244:8,25 245 246:2 247:3, <b>consideration</b>	94:13       construe         20,21       108:12         16:18       148:2         12,20       construin         19:20       contain         13       contained         19,21       242:22,         7,12       contained         5:14       contempl         15       228:18         contendin	d       46:1       convent         145:13       76:19       convers         ng       149:8,9       18:15         171:21       conveyin       conveyin         d       132:3       copy       72         25 245:6       72:19       corp       17         r       183:15       corp       17         late       229:3       corpora       114:4 2         ng       224:22       correct	ion 50:23 ional 47:8 116:14 ations ng 108:13 2:3,6,15,16 72:17 tion 113:22 205:10 .,25 7:15 8:2,10	216:12 218:18 220:3 227:7 232:23 232:24 241:12 244:14 248:5 correctly 161:7 197:5 219:7 corresponded 241:7 corresponding 98:6 costs 229:9 counsel 178:5 181:17 190:4 211:8
68:10 90:18 109:17 110:2 112:14,18 11 116:19 117:1 118:13,19 11 149:1 150:8, 163:19 164:1 164:22 165:7 168:25 201:2 244:8,25 245 246:2 247:3, <b>consideration</b> 52:19 54:5	94:13       construe         20,21       108:12         16:18       148:2         12,20       construin         19:20       contain         13       contained         19,21       242:22,         7,12       contained         5:14       contemple         15       228:18         context	d       46:1       convent:         145:13       76:19       convers:         ng       149:8,9       18:15         171:21       conveying:       conveying:         d       132:3       copy 72         25 245:6       72:19       corporal         r       183:15       corp 17         late       229:3       corporal         lating       114:42       233:24         ng       224:22       correct         29:21       30:4       8:11,12	ion 50:23 ional 47:8 116:14 ations ng 108:13 2:3,6,15,16 72:17 tion 113:22 205:10 .,25 7:15 8:2,10 3,14 9:21,23	216:12 218:18 220:3 227:7 232:23 232:24 241:12 244:14 248:5 correctly 161:7 197:5 219:7 corresponded 241:7 corresponding 98:6 costs 229:9 counsel 178:5 181:17 190:4 211:8 211:21 213:21
68:10 90:18 109:17 110:2 112:14,18 11 116:19 117:1 118:13,19 11 149:1 150:8, 163:19 164:1 164:22 165:7 168:25 201:2 244:8,25 245 246:2 247:3, <b>consideration</b> 52:19 54:5 <b>considered</b> 2	94:13       construe         20,21       108:12         16:18       148:2         12,20       construin         19:20       contain         13       contained         19,21       242:22,         7,12       contained         5:14       contempl         5:14       contempl         contendir       context         0:23       178:16	d       46:1       convent         145:13       76:19       convers         ng       149:8,9       18:15         171:21       conveyin       conveyin         d       132:3       copy       72         25 245:6       72:19       corp       17         r       183:15       corp       17         late       229:3       corpora       114:4 2         ng       224:22       correct       8:11,12         29:21 30:4       8:11,12       13:4 14	ion 50:23 ional 47:8 116:14 ations ng 108:13 2:3,6,15,16 72:17 tion 113:22 205:10 .,25 7:15 8:2,10 3,14 9:21,23 4:16 15:7	216:12 218:18 220:3 227:7 232:23 232:24 241:12 244:14 248:5 correctly 161:7 197:5 219:7 corresponded 241:7 corresponding 98:6 costs 229:9 counsel 178:5 181:17 190:4 211:8
68:10 90:18 109:17 110:2 112:14,18 11 116:19 117:1 118:13,19 11 149:1 150:8, 163:19 164:1 164:22 165:7 168:25 201:2 244:8,25 245 246:2 247:3, <b>consideration</b> 52:19 54:5	94:13       construe         20,21       108:12         16:18       148:2         12,20       construin         19:20       contain         13       contained         19,21       242:22,         7,12       contained         5:14       contempl         5:14       contempl         contendir       context         0:23       178:16	d       46:1       convent         145:13       76:19       convers         ng       149:8,9       18:15         171:21       conveyin       conveyin         d       132:3       copy       72         25 245:6       72:19       corp       17         r       183:15       corp       17         late       229:3       corpora       114:4 2         ng       224:22       correct       8:11,12         29:21 30:4       8:11,12       13:4 14	ion 50:23 ional 47:8 116:14 ations ng 108:13 2:3,6,15,16 72:17 tion 113:22 205:10 .,25 7:15 8:2,10 3,14 9:21,23	216:12 218:18 220:3 227:7 232:23 232:24 241:12 244:14 248:5 correctly 161:7 197:5 219:7 corresponded 241:7 corresponding 98:6 costs 229:9 counsel 178:5 181:17 190:4 211:8 211:21 213:21

## [counter - definition]

Page 262

	1	1	
<b>counter</b> 144:15	<b>cubic</b> 87:1,13 88:10	112:20 145:2	153:6 154:4 165:23
227:20	89:17 109:11	171:21 172:25	176:10,23 177:2,15
countless 229:25	110:22 112:12	174:11 183:14,17	179:6 180:3,24,25
<b>county</b> 249:4 250:3	117:21 189:10	192:2,20 226:11,12	187:12 188:11
250:17	206:9 209:7	226:14,22 245:5,7	196:10,22 197:22
<b>couple</b> 26:7 47:23	cumbersome	<b>decide</b> 82:15,16	198:4,16,19 199:2
242:4	192:11	153:9	199:14 202:7
<b>course</b> 8:8 60:21	<b>curing</b> 39:16 42:23	<b>decided</b> 120:15	221:12,19 224:23
206:17 248:12	43:6 50:12 68:24	134:2 238:21	225:6,17 231:15
<b>court</b> 5:23 6:1,4	currently 122:7	<b>decision</b> 5:3 96:22	233:5 235:13 241:1
17:5 174:21 175:12	customarily 184:9	<b>decisions</b> 4:24 5:2	241:2,3,4,12,18
175:15,17 176:15	<b>customer</b> 206:20	<b>deck</b> 59:25 132:24	declarations 10:15
176:17 177:1 178:4	<b>cut</b> 160:10,18 161:3	188:4 189:1,2	declare 6:22
178:8,25 179:17	161:5 165:4,5	192:19	declared 153:1
180:19 182:18	<b>cutting</b> 161:12	decks 59:9 73:7	154:4
183:4 219:10	d	74:1 113:13	<b>deem</b> 92:13 96:15
<b>cover</b> 172:4,13	<b>d</b> 4:11	declaration 3:23	defendant 8:6
<b>covers</b> 166:21	dad 99:21	6:22 7:10 10:19,25	deficient 16:4
171:24	damaging 49:9	11:2,14 12:25 14:7	<b>define</b> 19:13 20:13
<b>create</b> 34:9 35:19	53:23	15:5 16:1,2,4,5,10	54:11 68:17 116:24
35:20 37:2,25	dancing 167:2	16:15 17:1,10,24	155:2 204:24
54:14 71:2 163:1	data 11:12 12:24	19:3 21:7 27:17	defined 67:13
171:20 192:19	152:3	29:20 31:25 43:11	72:11 201:21,22
210:19 244:22	date 1:15 217:23	43:24 60:16 65:10	214:4
<b>created</b> 42:23 48:7	220:23 221:7,9	69:11 72:9 76:1	<b>defines</b> 204:24
160:13 171:7	223:2,4,20 242:10	81:19 86:3,15	<b>defining</b> 109:21,24
creates 169:5 173:8	242:14,16 244:7,11	91:12 92:11 93:2	109:25 111:11
173:9,10	244:12 245:12,13	93:15,15,18,22	121:8 200:21
credit 12:5	dated 250:16	94:11,16,17 95:5	205:21 248:2
<b>crocker</b> 232:14	dawn 1:21 249:18	96:9 98:25 100:11	definitely 133:8
233:14	250:4,25	100:20 101:11	184:5 193:18
<b>cross</b> 3:3 4:6 6:16	<b>day</b> 131:10 134:10	103:23 106:18	222:16 234:19
23:15 29:17,18	135:7 138:3 206:13	107:9,14 108:1,25	definition 20:9
39:21 54:13 55:3	223:19 229:14	109:13 110:2	30:8 76:24 87:17
61:9 93:22 99:12	dealt 187:15	111:18 115:14	87:18 90:11,23
112:3 176:2,23	debris 14:13,14	116:24 118:5,22	96:6 97:15,21
177:6,14 186:24	24:8 39:17,17,17	119:13 121:20	104:19 107:5
214:2 229:10 238:8	41:12 42:18,23	122:2,15 123:2	110:10 120:9
238:25	46:25 48:7 50:13	129:13 132:15	129:21 135:3
<b>cs</b> 171:10 172:23		140:20 147:15	142:22 145:10,11
173:18	59:5 61:2,2,8 69:5	152:3,6,9,16 153:2	148:8,25 149:2,3
	79:21 105:1,5,5		, - , ,-

Veritext Legal Solutions

## [definition - disclosed]

150:9,12,24 151:12	desire 242:1	24:9,20,20 25:3,4,6	directing 115:22
151:15,15 153:7	destroy 52:10	25:7,7,13,14 28:6	directions 187:21
154:6,8 155:5,6,16	<b>detailed</b> 76:12 97:8	28:14 29:18 34:24	directly 16:2 101:6
155:19 214:6	97:9 106:16 110:12	35:3,24,24 38:1,5,6	104:19 105:9,11
definitions 30:2	120:16	38:6 39:13 41:8,9,9	106:5 223:4
199:8	<b>details</b> 93:13 107:6	47:21 52:3,11 54:4	dirt 29:13 39:18
<b>degrees</b> 123:18	107:7 118:25 119:1	54:13,21 55:3,24	50:16 67:19 70:25
delivering 147:24	191:22 248:5	59:12 60:25 61:5,9	71:10 142:2,6,12
depend 12:22	determination	64:5,13,14 66:21	243:22 244:3
depending 37:11	19:10,12 71:17	66:21 70:16,16	disagree 23:21
37:22 84:5 188:6	103:13 151:21	78:12 79:15,16,17	167:16
<b>depends</b> 24:19 35:4	determine 24:23	79:20 80:9 81:12	discharge 51:19
51:9 80:3,6,10	75:24 83:12 215:6	84:17,19,20 85:24	79:6 80:1,15,17
82:11 83:9 99:5	229:13 230:17	101:4,15 102:4	81:11 105:15 129:7
138:17 141:22	determined 20:2	104:7,8 111:7,8	137:8,18 140:21
158:12 189:12	100:5 224:19	113:1,1,7 141:22	141:9,21 142:10,18
201:23 229:15	determines 151:1	141:24,25 145:24	145:18 160:9,20
<b>depo</b> 4:12	<b>develop</b> 193:2	159:3 160:24 172:8	165:1 171:24
deponent 4:3	developing 212:16	202:1 204:19,20,25	172:14 174:6,12,16
deposition 5:21	<b>device</b> 73:8,19	204:25 208:19	183:12
176:12 182:17	91:21 114:8 166:17	210:14,14 216:10	discharged 42:24
<b>depth</b> 83:15	172:14 173:17	217:25 229:24	48:8
<b>derive</b> 98:1	176:6,8,11 177:22	230:16 236:14,14	discharges 52:12
derived 98:4	178:2 187:18,23	236:21 239:2	70:19 81:6 127:8
232:16	204:5 233:24 246:3	246:15 247:5	210:10
deriving 90:21	<b>devices</b> 73:6 104:21	differently 23:13	discharging 78:17
92:22	113:13 114:11	<b>difficult</b> 27:14,22	139:24 161:11
<b>describe</b> 20:12 42:6	220:5 234:1	145:19 146:4	<b>disclose</b> 75:8 130:4
67:20	diameter 79:13	difficulties 177:10	148:3,19 197:15
description 42:1,3	80:16 83:5,23	177:11	disclosed 46:11
42:6,20 44:1,10	diameters 158:23	<b>dig</b> 52:21	61:24,25 62:10
76:12 103:9 110:12	159:13	dimensioning	68:8,19 69:22 70:9
227:20	<b>diesel</b> 144:3,4	191:13	70:18 71:11 77:11
descriptive 33:4	156:24 157:1	<b>direct</b> 13:22 76:6	79:20 86:11 87:23
design 69:25 230:1	168:17	100:10 105:7	90:8,9,15 91:7,20
245:4	difference 105:10	106:12 109:7 123:4	91:21 92:17 96:1
designed 69:14	106:4	176:3 178:21 179:1	110:11,22 115:18
76:3 145:24	differences 56:19	222:24	117:13 120:16
designing 89:23	different 5:18	<b>directed</b> 62:17 91:3	123:24 124:1 125:2
<b>designs</b> 100:20	11:10,11 12:3	101:22 144:7	125:16 126:3,4,6
107:13,16	14:20 15:3 19:1	149:11 152:14	127:22 128:20

	1		
140:24 141:18	discussing 45:16	downtown 25:14	190:1 197:25 203:1
142:24 146:1	242:1	25:16	205:8 210:4 214:21
155:18 156:6	discussion 110:9	draw 120:9 140:16	233:18 236:14
162:24,24 168:3	166:8 174:24	179:18	237:7 247:7,12
180:8,10,13 185:2	197:22 198:18	drawing 87:3	248:3
185:14,15,15,23	241:1,25	117:21 136:10	early 212:9 243:23
186:5,9 189:5,20	discussions 92:17	144:21	easier 5:13,14
190:10 191:17	displacement 36:10	drawings 21:25	easiest 5:16 231:9
194:7,15 197:3	36:13,24 125:5,6,7	136:8	easily 235:22
200:4 204:16 205:6	126:5,14 203:19	<b>drawn</b> 139:10	easy 197:17 238:18
211:6,15 217:5	dispute 15:23	237:12,16	eat 51:7
218:21 225:6	71:22 101:17	drill 178:15	eating 51:5 161:9
227:25 228:21	122:21 179:22,25	<b>drive</b> 139:18 147:2	economical 229:8
231:19 232:5,17	180:11 181:6,8,17	187:20 230:12,12	<b>edit</b> 16:16
236:5	181:25	driven 37:1 144:4	edward 2:9 175:22
<b>discloses</b> 43:8,16	disputing 87:22	187:18	effort 10:5,11,23
68:5 74:2,20 89:20	150:4	drop 37:15,23	16:12 17:2,12,13
120:19 145:17	disregard 200:1,3	42:12 138:5,21,25	17:18,21 18:3,9
151:22 170:3 194:3	distinctions 179:19	155:22 156:14	30:24 31:5 91:13
203:6 238:22	<b>district</b> 8:3,4 177:1	169:20 237:10	91:17 121:24
disclosing 97:12	178:4,8,25 179:17	<b>dry</b> 46:20	151:19 152:1,4,23
142:1	180:19	<b>due</b> 27:22	152:25 153:3
disclosure 70:2	<b>divided</b> 139:16	<b>duly</b> 4:4 249:7	efforts 12:3
142:7 172:3 195:11	document 9:25	<b>dumb</b> 227:12,14,21	eight 55:24 159:22
195:19 205:15	10:2,4,7,9 12:6,10	<b>dump</b> 38:3 226:12	either 65:1 100:5
215:20	16:13,17 31:12	226:14,16,17,18	158:1 184:15,19
disclosures 14:24	119:6	227:10,16	185:25 187:22
77:7 88:13 90:18	documentation	dumping 227:6	216:19
92:16,20 93:4	11:22 15:18	duration 206:19	elected 29:20
95:25 109:5 199:21	documents 97:7	<b>dust</b> 88:12	electric 143:22,22
234:11	<b>doing</b> 41:9 46:23	<b>dwell</b> 160:13	143:24 157:7
disconnecting	47:4 50:13 51:24	e	electrically 123:11
235:22	120:2 141:23 192:5	<b>e</b> 3:1,8	electronically
<b>discuss</b> 45:19 54:20	197:23 198:11	<b>earlier</b> 21:10 62:20	250:8
98:16 118:21	200:7,16,23 201:5	64:25 69:21 78:19	elements 125:19
120:18 177:24	202:11 218:7,9	99:15 108:14,20	174:6 218:21
discussed 62:19	219:1,15 220:1,21	109:4,24 113:10	220:12 230:24
90:19 98:24 117:5	220:24 234:12,20	123:25 129:24	<b>eleven</b> 159:8
123:24 149:16	237:24	123.23 129.24	<b>ellman</b> 21:21
150:5 180:3 190:1	<b>dot</b> 23:3 61:23	149:16 158:12,23	embodies 164:6
206:15 240:19		149.10 138.12,23	165:25
		100.23 172:10	

## [embodiment - exists]

	T		ļī
embodiment 62:1	entitles 99:19	exactly 89:16	227:19 233:11,19
120:19 128:9	epoxies 62:20	119:13 126:17	235:15 239:5,12
166:21	158:5	136:25 142:20	248:1
<b>employ</b> 25:1 71:10	<b>epoxy</b> 28:12 29:16	159:8 185:10,19	<b>examples</b> 15:12,13
185:15 229:21	38:14 47:24 51:12	186:11,15,17 229:3	35:5 51:11 121:19
employed 52:13	51:17 52:8,20,21	237:15	191:13 193:12
70:23 158:23	53:20 54:22 63:16	examination 3:3,4	196:16 203:2 238:8
184:18 193:13	67:14 70:10 78:20	4:6 6:16 23:15	<b>excess</b> 36:14,19
217:14	equipment 13:24	93:22 99:12 112:3	57:13
employee 250:13	14:3,5 50:24 55:8	176:2,3,23 177:6	<b>exchange</b> 85:3,4,24
<b>employes</b> 115:20	117:9 161:5 194:23	177:14 186:24	124:19,21 125:8
employing 54:17	202:1,3 210:16	214:2 240:22	126:15
69:19 86:7 154:12	220:19 223:19	<b>example</b> 14:10,24	exclusively 30:23
163:2	230:3 233:12,13	19:7 24:25 25:9,24	31:18
<b>employs</b> 185:2	especially 65:21	34:23 38:8 39:4	<b>excuse</b> 8:3 20:24
186:9	esq 2:2,3,9,9	41:1 49:3 52:10,20	109:8,15,22 149:18
enables 127:15	essence 132:2	55:24 58:10 62:16	149:22 159:18
153:9 187:17,20,22	establish 177:13	63:14,15 64:23	194:15
192:18	178:9	68:18 70:18 71:19	executed 221:12
encompasses	established 15:8	77:17 81:13 82:19	exemplary 23:24
214:18	23:16 108:14 181:3	85:8 87:16,18,25	233:25
encounter 28:2	establishes 15:10	90:7,9,10,11,20,22	<b>exhibit</b> 3:9,10,12
173:18 183:20	16:3	90:23 95:8 96:5,17	3:13,15,16,18,19
endeavor 224:11	establishing 17:8	97:11,14,21,21	3:21,22 5:8,12,23
<b>ended</b> 158:25	estate 100:4	98:9,20,21,22	5:24,25 6:5,9,10
engine 24:21,22	estimate 192:6	105:13 109:20,21	20:16 32:12 41:25
35:18,19 37:14,15	estimation 139:9	109:23 110:6,7	61:11 62:6 65:11
37:25 52:4,5	<b>etch</b> 160:14	111:9,10 121:7,16	72:17,21 100:11
156:25 157:1	evaluate 96:11	125:14 129:20	122:6,9 126:21
168:17 230:12,13	evaluated 96:10	130:19 131:21	131:1 144:5 147:16
244:4 246:11,18	evaluation 93:25	132:6,22,24 136:10	158:20 164:14
engineers 12:20	everybody 182:4	147:18 152:22	170:14,18,24 187:1
enlighten 222:18	182:10 201:23,24	153:7 154:8 156:21	187:5,5 225:23
<b>entire</b> 105:14	201:25 227:21	164:10 178:11	226:23 235:4,8
entirely 10:9	233:16	180:13,14 184:17	exhibits 130:21
<b>entirety</b> 31:2,9,16	evidence 20:22	197:3 199:22,23	228:22
90:15 93:12 95:2	196:1 197:21	200:5,13,20 202:25	<b>existed</b> 225:16
194:12	evolve 212:15	203:6 204:4 205:21	existing 145:21
entitle 99:18	<b>evolved</b> 212:10	205:22,24,25	198:2
entitled 14:13	exact 84:13 126:6	206:24 208:20	exists 42:7
	137:5 139:19 185:7	210:17,18,19 215:1	

# [exit - figure]

00.20 25 04.0			
exit 80:20,25 84:8	101:11 112:4,7	extreme 38:11	<b>federal</b> 176:1
137:13,15,17	119:6,14 124:14	extremely 47:22	<b>feel</b> 177:12
139:23 157:24,25	130:15 131:13	50:17 201:18	<b>feet</b> 40:10 87:1,13
158:2,7,10 159:14	133:21 134:1	f	88:10 89:17 109:11
173:4	138:19,21 139:14	<b>f</b> 1:12 2:9 4:2 7:5	110:23 112:13
<b>exits</b> 84:15 137:24	141:6,8 146:21	14:11 15:6 21:17	117:21 189:10
173:16	148:18,24 152:2,5	21:19,24	192:7 206:9 209:7
<b>expect</b> 27:25 51:19	152:6,12,13 153:4	<b>fact</b> 16:4 148:11,12	<b>ff</b> 249:20
63:5,8,17 64:24	153:6 155:22 156:8	148:18 155:17	<b>field</b> 9:4,21 11:13
66:18 125:15,22	163:14 166:22	181:18 218:1	13:5,18,25 14:2,4
136:17 137:7 138:4	167:1,5,10 172:20	225:16,16	14:18 15:14,18
138:25 139:23	173:2 176:9 177:3	factored 153:23	19:16 21:12 23:17
143:8,23 155:22,23	177:6,14,15 178:10	factors 145:24	26:24 27:18 28:19
158:19 161:10,14	178:10,24 179:6	facts 97:2 103:5	28:24 29:2,8,10,11
231:21 232:4,7,8	180:15 188:11,19	<b>fahrenheit</b> 123:18	34:2 40:21 42:7,8
237:8 238:14	190:20 192:8 195:3	fair 7:16 18:5 23:4	44:20 45:4 57:6,10
experience 8:19	197:21 198:15	32:19 42:5 60:22	57:21 59:7 60:23
9:19 11:8 15:14	201:15 214:18	61:24 71:8 83:21	62:2,9,16 64:18
115:2 163:16 212:3	223:13 227:9	107:19 114:23	66:9 73:4,5,11,24
experienced 11:10	229:11 230:4 233:4	150:16 165:24	74:6,16,19 85:8,13
experimenting	246:22	192:22 230:22	88:24 89:13 101:21
163:1	expert's 97:1	false 7:1	104:20 112:7
<b>expert</b> 7:13,17,20	expertise 19:18	familiar 12:11 25:9	113:10,11,12
8:16,23 9:3,5 10:14	56:3 87:3 134:11	37:4 58:22 59:7	115:10 123:10
10:25 11:12,14,18	138:4 140:23	37:4 58:22 59:7 60:15 66:15 69:21	124:14 130:13
10:25 11:12,14,18 13:4,13,13,18 14:4	138:4 140:23 166:25 183:25	60:15 66:15 69:21	124:14 130:13 133:25 134:10
10:25 11:12,14,18 13:4,13,13,18 14:4 14:25 15:8,18,23	138:4 140:23 166:25 183:25 188:20 203:16	60:15 66:15 69:21 78:21 91:25 92:6	124:14 130:13 133:25 134:10 138:4,21 142:24
10:25 11:12,14,18 13:4,13,13,18 14:4 14:25 15:8,18,23 15:24 16:1 17:24	138:4 140:23 166:25 183:25 188:20 203:16 204:3 208:13	60:15 66:15 69:21 78:21 91:25 92:6 93:20 113:19,23	124:14 130:13 133:25 134:10 138:4,21 142:24 144:7 152:9,10
10:25 11:12,14,18 13:4,13,13,18 14:4 14:25 15:8,18,23 15:24 16:1 17:24 18:17 19:16 21:12	138:4 140:23 166:25 183:25 188:20 203:16 204:3 208:13 211:12 213:24	60:15 66:15 69:21 78:21 91:25 92:6 93:20 113:19,23 114:7,11 127:1	124:14 130:13 133:25 134:10 138:4,21 142:24 144:7 152:9,10 155:22 161:18
10:25 11:12,14,18 13:4,13,13,18 14:4 14:25 15:8,18,23 15:24 16:1 17:24 18:17 19:16 21:12 23:16 25:17 27:18	138:4 140:23 166:25 183:25 188:20 203:16 204:3 208:13 211:12 213:24 214:12	60:15 66:15 69:21 78:21 91:25 92:6 93:20 113:19,23 114:7,11 127:1 129:6 137:12,17,23	124:14 130:13 133:25 134:10 138:4,21 142:24 144:7 152:9,10 155:22 161:18 188:17,18 191:10
10:25 11:12,14,18 13:4,13,13,18 14:4 14:25 15:8,18,23 15:24 16:1 17:24 18:17 19:16 21:12 23:16 25:17 27:18 27:25 28:20 33:16	138:4 140:23 166:25 183:25 188:20 203:16 204:3 208:13 211:12 213:24 214:12 experts 12:21	60:15 66:15 69:21 78:21 91:25 92:6 93:20 113:19,23 114:7,11 127:1 129:6 137:12,17,23 139:12 140:6,12	124:14 130:13 133:25 134:10 138:4,21 142:24 144:7 152:9,10 155:22 161:18 188:17,18 191:10 200:12 213:1
10:25 11:12,14,18 13:4,13,13,18 14:4 14:25 15:8,18,23 15:24 16:1 17:24 18:17 19:16 21:12 23:16 25:17 27:18 27:25 28:20 33:16 34:13 40:20 45:4	138:4 140:23 166:25 183:25 188:20 203:16 204:3 208:13 211:12 213:24 214:12 experts 12:21 122:1 152:8,11	60:15 66:15 69:21 78:21 91:25 92:6 93:20 113:19,23 114:7,11 127:1 129:6 137:12,17,23 139:12 140:6,12 141:9,17,20 142:5	124:14 130:13 133:25 134:10 138:4,21 142:24 144:7 152:9,10 155:22 161:18 188:17,18 191:10 200:12 213:1 221:25 234:8,13
10:25 11:12,14,18 13:4,13,13,18 14:4 14:25 15:8,18,23 15:24 16:1 17:24 18:17 19:16 21:12 23:16 25:17 27:18 27:25 28:20 33:16 34:13 40:20 45:4 48:3 53:16,22	138:4 140:23 166:25 183:25 188:20 203:16 204:3 208:13 211:12 213:24 214:12 experts 12:21 122:1 152:8,11 expires 249:21	60:15 66:15 69:21 78:21 91:25 92:6 93:20 113:19,23 114:7,11 127:1 129:6 137:12,17,23 139:12 140:6,12 141:9,17,20 142:5 142:18 189:17	124:14 130:13 133:25 134:10 138:4,21 142:24 144:7 152:9,10 155:22 161:18 188:17,18 191:10 200:12 213:1 221:25 234:8,13 235:16 236:10
10:25 11:12,14,18 13:4,13,13,18 14:4 14:25 15:8,18,23 15:24 16:1 17:24 18:17 19:16 21:12 23:16 25:17 27:18 27:25 28:20 33:16 34:13 40:20 45:4 48:3 53:16,22 55:10,12,17,19	138:4 140:23 166:25 183:25 188:20 203:16 204:3 208:13 211:12 213:24 214:12 experts 12:21 122:1 152:8,11 expires 249:21 explain 191:21	60:15 66:15 69:21 78:21 91:25 92:6 93:20 113:19,23 114:7,11 127:1 129:6 137:12,17,23 139:12 140:6,12 141:9,17,20 142:5 142:18 189:17 190:22,24 235:10	124:14 130:13 133:25 134:10 138:4,21 142:24 144:7 152:9,10 155:22 161:18 188:17,18 191:10 200:12 213:1 221:25 234:8,13 235:16 236:10 <b>field's</b> 156:9
10:25 11:12,14,18 13:4,13,13,18 14:4 14:25 15:8,18,23 15:24 16:1 17:24 18:17 19:16 21:12 23:16 25:17 27:18 27:25 28:20 33:16 34:13 40:20 45:4 48:3 53:16,22 55:10,12,17,19 58:7 64:18 67:8	138:4 140:23 166:25 183:25 188:20 203:16 204:3 208:13 211:12 213:24 214:12 experts 12:21 122:1 152:8,11 expires 249:21 explain 191:21 203:13	60:15 66:15 69:21 78:21 91:25 92:6 93:20 113:19,23 114:7,11 127:1 129:6 137:12,17,23 139:12 140:6,12 141:9,17,20 142:5 142:18 189:17 190:22,24 235:10 247:25	124:14 130:13 133:25 134:10 138:4,21 142:24 144:7 152:9,10 155:22 161:18 188:17,18 191:10 200:12 213:1 221:25 234:8,13 235:16 236:10 <b>field's</b> 156:9 <b>fields</b> 14:1 122:23
10:25 11:12,14,18 13:4,13,13,18 14:4 14:25 15:8,18,23 15:24 16:1 17:24 18:17 19:16 21:12 23:16 25:17 27:18 27:25 28:20 33:16 34:13 40:20 45:4 48:3 53:16,22 55:10,12,17,19 58:7 64:18 67:8 74:20 78:16 81:20	138:4 140:23 166:25 183:25 188:20 203:16 204:3 208:13 211:12 213:24 214:12 experts 12:21 122:1 152:8,11 expires 249:21 explain 191:21 203:13 explained 145:17	60:15 66:15 69:21 78:21 91:25 92:6 93:20 113:19,23 114:7,11 127:1 129:6 137:12,17,23 139:12 140:6,12 141:9,17,20 142:5 142:18 189:17 190:22,24 235:10 247:25 <b>far</b> 130:20 177:13	124:14 130:13 133:25 134:10 138:4,21 142:24 144:7 152:9,10 155:22 161:18 188:17,18 191:10 200:12 213:1 221:25 234:8,13 235:16 236:10 field's 156:9 fields 14:1 122:23 fifteen 159:23
10:25 11:12,14,18 13:4,13,13,18 14:4 14:25 15:8,18,23 15:24 16:1 17:24 18:17 19:16 21:12 23:16 25:17 27:18 27:25 28:20 33:16 34:13 40:20 45:4 48:3 53:16,22 55:10,12,17,19 58:7 64:18 67:8 74:20 78:16 81:20 85:13,17 86:3	138:4 140:23 166:25 183:25 188:20 203:16 204:3 208:13 211:12 213:24 214:12 experts 12:21 122:1 152:8,11 expires 249:21 explain 191:21 203:13 explained 145:17 247:8	60:15 66:15 69:21 78:21 91:25 92:6 93:20 113:19,23 114:7,11 127:1 129:6 137:12,17,23 139:12 140:6,12 141:9,17,20 142:5 142:18 189:17 190:22,24 235:10 247:25 <b>far</b> 130:20 177:13 182:1	124:14 130:13 133:25 134:10 138:4,21 142:24 144:7 152:9,10 155:22 161:18 188:17,18 191:10 200:12 213:1 221:25 234:8,13 235:16 236:10 field's 156:9 fields 14:1 122:23 fifteen 159:23 figure 123:10 136:8
$\begin{array}{c} 10:25 \ 11:12,14,18\\ 13:4,13,13,18 \ 14:4\\ 14:25 \ 15:8,18,23\\ 15:24 \ 16:1 \ 17:24\\ 18:17 \ 19:16 \ 21:12\\ 23:16 \ 25:17 \ 27:18\\ 27:25 \ 28:20 \ 33:16\\ 34:13 \ 40:20 \ 45:4\\ 48:3 \ 53:16,22\\ 55:10,12,17,19\\ 58:7 \ 64:18 \ 67:8\\ 74:20 \ 78:16 \ 81:20\\ 85:13,17 \ 86:3\\ 89:13 \ 90:12 \ 91:6\\ \end{array}$	138:4 140:23 166:25 183:25 188:20 203:16 204:3 208:13 211:12 213:24 214:12 experts 12:21 122:1 152:8,11 explain 191:21 203:13 explained 145:17 247:8 explanation 106:8	60:15 66:15 69:21 78:21 91:25 92:6 93:20 113:19,23 114:7,11 127:1 129:6 137:12,17,23 139:12 140:6,12 141:9,17,20 142:5 142:18 189:17 190:22,24 235:10 247:25 <b>far</b> 130:20 177:13 182:1 <b>fast</b> 177:17	124:14 130:13 133:25 134:10 138:4,21 142:24 144:7 152:9,10 155:22 161:18 188:17,18 191:10 200:12 213:1 221:25 234:8,13 235:16 236:10 field's 156:9 fields 14:1 122:23 fifteen 159:23 figure 123:10 136:8 197:17 226:25
$\begin{array}{c} 10:25 \ 11:12,14,18\\ 13:4,13,13,18 \ 14:4\\ 14:25 \ 15:8,18,23\\ 15:24 \ 16:1 \ 17:24\\ 18:17 \ 19:16 \ 21:12\\ 23:16 \ 25:17 \ 27:18\\ 27:25 \ 28:20 \ 33:16\\ 34:13 \ 40:20 \ 45:4\\ 48:3 \ 53:16,22\\ 55:10,12,17,19\\ 58:7 \ 64:18 \ 67:8\\ 74:20 \ 78:16 \ 81:20\\ 85:13,17 \ 86:3\\ 89:13 \ 90:12 \ 91:6\\ 91:19 \ 92:11 \ 93:23\\ \end{array}$	138:4 140:23 166:25 183:25 188:20 203:16 204:3 208:13 211:12 213:24 214:12 experts 12:21 122:1 152:8,11 expires 249:21 explain 191:21 203:13 explained 145:17 247:8 explanation 106:8 106:8,16,17	60:15 66:15 69:21 78:21 91:25 92:6 93:20 113:19,23 114:7,11 127:1 129:6 137:12,17,23 139:12 140:6,12 141:9,17,20 142:5 142:18 189:17 190:22,24 235:10 247:25 <b>far</b> 130:20 177:13 182:1 <b>fast</b> 177:17 <b>father</b> 99:24	124:14 130:13 133:25 134:10 138:4,21 142:24 144:7 152:9,10 155:22 161:18 188:17,18 191:10 200:12 213:1 221:25 234:8,13 235:16 236:10 field's 156:9 fields 14:1 122:23 fifteen 159:23 figure 123:10 136:8 197:17 226:25 227:1,3 236:20
$\begin{array}{c} 10:25 \ 11:12,14,18\\ 13:4,13,13,18 \ 14:4\\ 14:25 \ 15:8,18,23\\ 15:24 \ 16:1 \ 17:24\\ 18:17 \ 19:16 \ 21:12\\ 23:16 \ 25:17 \ 27:18\\ 27:25 \ 28:20 \ 33:16\\ 34:13 \ 40:20 \ 45:4\\ 48:3 \ 53:16,22\\ 55:10,12,17,19\\ 58:7 \ 64:18 \ 67:8\\ 74:20 \ 78:16 \ 81:20\\ 85:13,17 \ 86:3\\ 89:13 \ 90:12 \ 91:6\\ \end{array}$	138:4 140:23 166:25 183:25 188:20 203:16 204:3 208:13 211:12 213:24 214:12 experts 12:21 122:1 152:8,11 explain 191:21 203:13 explained 145:17 247:8 explanation 106:8	60:15 66:15 69:21 78:21 91:25 92:6 93:20 113:19,23 114:7,11 127:1 129:6 137:12,17,23 139:12 140:6,12 141:9,17,20 142:5 142:18 189:17 190:22,24 235:10 247:25 <b>far</b> 130:20 177:13 182:1 <b>fast</b> 177:17	124:14 130:13 133:25 134:10 138:4,21 142:24 144:7 152:9,10 155:22 161:18 188:17,18 191:10 200:12 213:1 221:25 234:8,13 235:16 236:10 field's 156:9 fields 14:1 122:23 fifteen 159:23 figure 123:10 136:8 197:17 226:25

## [file - getting]

Γ	I	I	
<b>file</b> 91:25 92:1,6,6	139:13,19 174:11	114:12 115:1	fourteen 159:23
92:15,20 93:4,12	<b>flows</b> 158:8	117:14 118:24	<b>frame</b> 115:23
94:1,3,4 95:1,6,20	<b>fluid</b> 76:21 77:21	120:4 121:1 122:19	217:23 224:17
95:22 96:1 98:7	116:15 145:18	123:19 130:5	franklin 1:19
108:15,21 121:11	174:10	131:16 133:4 135:4	friction 71:3
130:1 154:1,16	<b>flying</b> 183:14,17	135:19 136:24	<b>front</b> 25:10 114:1
248:3	245:5	138:6 139:4,25	122:7 137:22 213:8
<b>filed</b> 179:7 232:14	focus 230:18	140:8,25 141:11	228:22 235:21
filing 221:7,9	follow 217:20	143:1,10 144:24	237:19 240:16
242:10 244:12	220:2 222:24	146:2 150:18 153:3	245:18
245:12	follows 4:5	154:2,23 155:25	frustrating 178:16
financial 7:24	<b>food</b> 99:7	156:11 158:9 163:3	<b>fuel</b> 138:15
99:16 167:6 180:20	<b>foot</b> 189:15	168:6 169:12 172:5	<b>full</b> 244:1 246:11
financially 250:14	football 85:8	173:6,20 177:11	<b>function</b> 168:12
<b>find</b> 217:17	foreign 24:8 75:11	184:4 185:24 186:1	functions 39:8
<b>fine</b> 6:4 7:2 72:25	<b>forgot</b> 101:9	188:15,22 191:19	<b>further</b> 74:11
99:9 209:19 239:16	forgotten 99:15	194:16 195:12	75:25 130:19 174:5
<b>finger</b> 165:5,5	<b>form</b> 8:17,25 10:17	196:5,12 197:24	180:5 181:24
247:15	11:9 13:8,15 15:1	198:9,20 199:10	239:18 248:8,14
<b>finish</b> 149:18	15:15 16:19 17:11	200:8 202:24 204:7	250:11
<b>first</b> 4:3 11:14,17	17:25 18:7 22:14	205:12 207:6	g
21:18 39:11 56:25	23:8 24:1 26:2	208:15 209:10	gain 139:1
116:10 122:12	27:11 28:3 30:17	210:2 212:19	gallons 37:21 38:3
133:5 144:21	31:3,10,21 32:7,22	216:15 217:6	76:22 77:22 78:17
149:19,25 174:2	33:7,20 34:7,17	221:20 228:24	79:5,22 80:15
212:16,17 213:6	35:6,16 36:5,17	232:6 234:3 236:12	81:10,14,22 82:21
224:14	37:19 38:24 39:10	<b>formed</b> 103:14	83:9,10,11,20,21
<b>fit</b> 128:10 138:9	40:2 41:5 42:9 43:3	forms 121:22	84:10,11,23 116:16
189:4,8 192:22	44:4,15,23 45:8,21	<b>formula</b> 137:22	137:8,10 138:17
193:2	46:7 50:9 52:14,25	<b>forth</b> 36:25 37:3	garages 29:4 209:2
<b>five</b> 68:25,25	53:6,24 55:11 56:7	119:13 134:1	garden 66:14 67:3
115:10 183:2	57:25 58:15 60:3	forward 12:9 19:4	gardens 2:11
<b>flaws</b> 94:12	62:3,12,25 64:1,9	53:15 61:2 93:17	general 191:22
<b>flip</b> 6:12	70:5 74:22 77:1	161:1 181:12 182:5	214:2 223:21
<b>floor</b> 42:11 226:11	78:2,23 79:8 80:5	187:20	generally 83:19
230:16	80:22 82:23 86:13	<b>found</b> 67:15 247:24	142:13
<b>florida</b> 1:20,22 2:5	86:17 87:24 96:4	foundation 116:7	generated 11:18
2:11 8:4 249:3,19	102:2 104:22	166:20 180:23	generating 18:17
250:2,6,17	105:16 106:10	197:19	generator 157:7
<b>flow</b> 37:17,21 38:2	107:21 108:17,23	<b>four</b> 57:2 115:10	getting 177:7 180:1
38:3 81:12 84:5	109:19 110:5,14,24	159:16	190:19 213:24
			170.17 213.24

231:23 245:21	230:2 237:18	groups 11:11 60:2	45:24,24 46:2
<b>give</b> 25:24 35:5	<b>going</b> 5:7 6:8 18:2	guess 5:9 8:11	50:13 51:13,24
38:8 41:1 81:13	20:19 23:12,20	12:23 35:1 61:5	57:9,22,23 58:11
82:19 90:7 100:16	25:21 41:16 47:18	64:10 93:5,8 99:1,6	59:22,25 73:7,11
120:15 125:10	49:4,5 51:14 54:1,2	178:22 186:21	73:15 74:3 75:9
155:19 159:10,11	59:1 63:15 68:2	193:14 195:13	113:14 115:19
184:17 206:19	69:8 74:11,16	196:3 207:19	132:18,22 134:8
230:5 239:12,22	79:18 80:14 82:12	219:20	137:2,4 138:11
240:13 245:20,22	84:23 87:9 99:4	guidance 176:21	147:25 160:4 197:4
248:10	109:6 113:6 122:5	guys 18:19 99:3	199:24 202:5
given 12:5 71:9	122:6 130:24 133:6	175:3 182:10 214:7	203:21
121:16 181:16,18	140:19 147:4,10	241:10,17 248:10	harder 51:15 54:15
gives 188:25,25	150:4 156:7 168:17	h	67:22 204:22
189:2 239:11	168:18 170:12	<b>h</b> 3:8 187:7	hardness 29:16
<b>giving</b> 214:1	173:12 176:17		haul 192:19
glass 55:1	179:12,12 181:12	haggard 49:19 half 56:25 100:7	head 19:14 20:12
<b>go</b> 5:10 12:23 37:10	181:19 187:21	hand 165:9 170:20	28:24 30:16 53:2
42:2 47:2 69:3,4,15	190:2 191:25 192:3	172:13 179:25	66:6 85:23 104:13
85:20 86:23 92:5	200:1,3 206:6,10	172.13 179.23	105:2,6,9,19,22,24
113:21 116:11	206:20 208:18,19	handed 126:24	114:1 115:23 124:7
117:24 133:19	213:19 215:4 218:5		147:23 160:25
139:11,13 140:19	218:13 228:6	170:17,22 187:5	178:17 184:20,20
148:5 149:23	235:23,24 237:14	handing 187:4 235:7	213:7 230:10,10
159:23,25 165:13	238:19,19 240:2	handle 79:5 85:21	235:21,24 237:19
166:6 167:19	<b>good</b> 4:8,9 78:13	156:22 241:10	245:18
173:22 174:1,21,25	136:19 160:5 183:1		heading 6:13 65:13
178:1 179:14 180:4	238:25 245:19	handling 100:4 hands 181:10	hear 99:23 175:3
182:5 191:5 203:22	governing 150:25		heard 92:8
206:10 208:4,22	<b>gpm</b> 139:16	handy 102:14	<b>heat</b> 48:21
211:1 212:13	gravity 42:14	<b>happen</b> 47:15 240:2	heated 123:17
222:14 236:16	127:16		heater 123:17
237:10,14 238:10	grease 69:7 78:4	happened 103:24	<b>heavier</b> 42:13
243:16	greater 76:21	happening 217:24	hedge 153:11
<b>goal</b> 95:12,13	116:15 119:2	happens 176:24	<b>held</b> 172:13
229:20	grime 29:13 39:18	hard 19:7,13,15	help 16:5 176:5
<b>goes</b> 35:18,19 49:22	50:16 67:19 69:7	20:8,9,13,13 28:12	<b>helped</b> 163:7
61:17,19 86:3	70:25 78:4 244:2	28:13,20,25 29:2,9	241:17
88:11 105:1,3,5,6,8	grinding 46:21	29:15,22 30:12,14	helping 241:16
105:24 106:1,2	47:8 50:23	32:21,25,25 33:1	helps 222:18
108:4 166:20	group 29:20	33:19,23 34:5 43:9	heretofore 22:11
171:13,14,16 223:4		43:17 44:13,16,17	
, ,		45:2,6,11,12,14,19	

<b>herhold</b> 170:25	128:2 129:13,15,16	highlight 180:17	<b>hose</b> 66:14,20 67:3
171:5 173:12,13	129:20,21 130:3,4	highway 25:5	86:25 105:1,5,8,22
185:2,7,16,23	132:19,25 134:8	28:11 29:17 38:14	105:24,24,25 106:2
186:5,9,14,18	140:17 142:20,22	47:7 75:24	109:10 145:2
188:14 193:10,18	142:23 145:1,1,1,5	highways 29:3 58:2	235:23,23,24 243:8
193:23 195:18	145:9,10,13 147:20	58:3 63:2 73:6,25	243:8,9
196:17 197:7,15	147:21,24,24 148:1	78:5 113:13	hoses 85:4,21,23
198:7 201:2 202:8	148:3,8,11,12,13	hillsborough 249:4	168:21 169:24
217:3 218:22 219:4	148:15,19,20,22,22	250:3,17	hour 40:10 41:17
219:21 222:12,16	148:23 149:1,3,4,5	hindsight 144:18	99:8 147:11
224:2 245:2,3,5	149:7,7 150:5,6,14	156:8	house 192:9
high 22:24 26:6,8	150:15,16,22,23	hinge 227:5	household 88:12
33:5 36:1,11,12	151:1,2,3,5,6,8,10	hinged 244:17	<b>huh</b> 81:18 136:16
38:16 39:20 42:23	151:13,13,14,22	hinges 199:6	236:7
43:9,17 47:5,12,16	153:8,9,11,15,18	hired 8:22 9:4	hundred 26:7
48:8 50:22 51:3,15	153:19 154:7,10,12	18:19	47:23 247:8
53:11 54:17,18	154:18 155:19,20	<b>history</b> 91:25 92:1	<b>hurt</b> 165:6,11
57:9 62:11,24	156:14 158:1	92:6,15,20 93:4,12	183:16
65:14,19 66:1,7,11	159:17 161:23	94:1,3,4 95:1,6,21	hypothetical 135:2
67:6 68:5,10,17	163:21 164:1,1,12	95:22 96:1 98:7	242:2,5,11,12,15
69:9,18 71:4 73:6	164:13,15,20,22,24	108:15,21 121:11	hypothetically
74:3 75:9 76:20,24	165:1,6,7,12,21,22	121:14 130:2 154:1	150:11 153:22
77:21 84:9 86:6,25	168:25 170:3,6,8	154:17 248:4	i
87:4,5,6,14,19,21	170:10 172:13	<b>hit</b> 27:3 176:22	<b>ian</b> 21:21
90:25 91:1,3 97:12	199:24 206:8 228:1	183:14,22,23	idea 232:21
98:8,15,17 102:19	228:1 233:21	hitch 76:19 116:14	identification 6:6
102:19 104:20	235:23 243:8,14	hits 185:3	20:17 62:7 122:10
105:8,21,22,23	247:2,10,12,13,15	<b>hold</b> 134:15 174:19	126:22 131:2
106:24 108:3,10,11	247:17	182:14	170:15 187:2
109:5,6,10 110:10	higher 35:18 37:25	holding 93:22	225:24 235:5
110:21,23,25 111:1	40:18 51:14,14,21	226:22	<b>identified</b> 198:3
111:19 112:9,11,14	65:20,21 66:1	holds 192:20	identifying 179:16
112:14,18,21 113:5	67:23 68:3 69:19	hole 165:5 247:14	illustrate 200:22
113:12,17 114:24	85:5 86:8,23	honor 181:8,21,25	impact 183:7 184:5
115:20,21,22,24	124:20 129:11	hopen 2:3	impacting 180:21
116:3,6,15,18,20	133:19 137:20	horizontal 104:10	impeach 23:17
116:24 117:1,3,7,8	141:3 154:12	horsepower 138:15	implementation
117:9,16,22 118:6	169:25 204:21	139:15,18 143:20	215:7
118:10,23 119:1,2	236:3 237:23 238:2	146:7,15,19 147:1	- · ·
110 0 11 100 05			Important 97.71
119:9,11 120:25	246:8	147:3 157:8,13,17	<b>important</b> 92:21
119:9,11 120:25 124:8 127:22,23		147:3 157:8,13,17 157:19,20	111:22 225:16,20

## [impose - inventor]

			-
<b>impose</b> 108:9	independent 7:16	225:9 227:22 228:6	<b>inter</b> 1:12 3:6 4:12
109:14 110:3	8:15,23,24 9:4,8	229:12 232:9,15	7:13 8:9,13 9:11
120:23	15:24 196:18	233:1 234:2 236:10	19:24 60:14 167:9
imprisonment 7:2	indicated 23:2	237:1 238:3	248:18 250:1,8
improper 23:18	61:22	information 6:24	interchange 132:5
177:20	<b>indirect</b> 105:7	10:8,22 11:25	203:16
<b>improve</b> 125:21	106:12,16 107:4,19	16:17 17:9 31:9,17	interchangeably
129:1,10 130:8	indirectly 101:6	31:19 97:5 101:15	56:23 57:6
131:23 133:9 169:8	104:19,21,23 105:1	178:1,10	<b>interest</b> 7:24 99:16
212:12 222:3,6	105:3,4,10 106:5	infringed 166:17	127:10,10 167:8
223:23 225:2	individual 29:2	179:2 215:5	177:5,25 180:20
improved 22:12	30:5 53:9 67:7	infringement	181:3
142:2 169:6 230:23	149:17	166:14 176:8 180:2	interested 93:24
improvement 42:8	individually 234:23	181:14 223:5	94:19,21 250:15
42:17 114:10 129:2	234:24	infringes 217:17	interesting 71:4
improving 131:22	industry 9:20 20:3	infringing 177:21	interpret 111:20
inaccurate 63:24	20:7 23:25 34:15	178:2	interpretation
110:3 150:12	52:1 54:7,16,19	ingenuity 231:2	28:16 65:15 111:17
196:14,15,24 199:1	56:23 67:4 75:1	innovation 193:2	180:16
199:2	89:21 117:4 136:4	innovative 193:4	interpreted 111:3
<b>inch</b> 26:15,16 83:21	140:2 150:24 158:3	<b>inquire</b> 240:16	118:9
83:23 84:2,6,7 85:2	172:19,25 173:24	<b>inside</b> 183:15,15	interruption 35:7
123:14 125:1	187:24 192:4,5,8	install 171:18	introduction
159:17,22,22,24	192:13 193:5,12,13	173:4	162:11
include 96:23	193:19,24 194:6,11	institute 5:3	<b>invent</b> 168:1
154:15 245:1	194:13,13,24 195:2	instituted 8:10,13	<b>invention</b> 22:5,8,13
included 79:19	195:3,9,10,18,21	167:8	23:6 24:3 57:6,10
94:2 97:3 182:17	195:22,24 196:2,7	instituting 9:11	57:22 59:8 60:23
including 41:14	196:16 197:8,10,11	<b>intact</b> 48:23 49:17	61:10,25 62:2,9,16
68:21 79:21 123:25	197:20,23 198:8	<b>intake</b> 86:25	73:5,5,24 74:1,8,17
205:9	200:7,16,23 201:5	109:10 120:20	74:17 88:24 101:22
incomplete 96:3	201:10 202:11,20	171:25	110:12 113:11,11
196:11	203:3 206:6,15	integrate 162:16	113:12 115:18
inconsistent 217:19	207:24 208:9,9	168:19	173:15 178:3
incorrect 21:15	214:22,23,25	<b>intend</b> 177:10	200:12 232:17
64:6 86:16 90:16	215:17 216:2,4,14	intended 78:13	234:9,13 236:11
96:3 98:19 104:1	216:24 217:2,8,12	119:6	inventive 22:20
206:22 207:3,17,23	217:15,21,24 218:6	intending 72:17	32:10 61:14
increase 100:8	218:19 220:5,7,13	178:7	inventor 15:6
169:24	220:18 221:17	<b>intent</b> 33:11 47:9	21:19,22
	222:15 224:24	48:24 49:8,8 68:22	

		1	
inventors 32:16	<b>john</b> 175:7	243:13 246:17	43:5 46:19 47:1,21
<b>invite</b> 176:21	<b>join</b> 104:8	july 218:15,20,24	47:23,24,25 48:23
<b>involve</b> 211:14	<b>joined</b> 104:20,21	220:11,21 221:3	49:19 50:1,10,15
involved 5:2,6	<b>joint</b> 17:13	223:8 225:9 232:14	50:15 51:13,20,22
11:11,16 12:13	<b>jones</b> 75:19 122:17	232:25 234:12	52:1 53:2,11,25
16:21 91:14 115:8	122:18,22 123:6	242:10,13 244:11	54:10,21,22 55:22
191:12	124:16,18,25 125:9	244:25 245:13	55:25 56:18 60:25
involves 231:1	125:15,21,23	246:2 249:21	61:8 62:19 63:2,3
<b>involving</b> 101:18	126:15 127:11,17	<b>justify</b> 71:14	63:11 64:11,13,15
<b>ipr</b> 5:4 11:16	128:25 130:15	k	66:22 67:7,19 69:4
178:20 179:7,9,17	131:14,21 132:4,9	<b>k</b> 187:7	70:24 71:3 72:10
ipr2018-00504 1:2	132:14 133:2,9,15	keep 18:2 37:21	72:12 75:11,12,19
irrelevant 95:21	134:13,20 135:8,15	80:13 96:8 127:15	78:5 79:13 80:10
issue 19:24 60:18	136:8 137:20 138:5	133:6 160:19 209:6	80:18,18,20 82:11
101:20 104:17	138:11,22,23	keeping 5:20	82:17,25 83:1,1,2
176:4,20 179:16	143:12,13,21 144:2	keeps 27:2 178:17	83:16,17 84:9,11
181:10 240:9	144:21 145:6,7,25	183:15 245:6	84:13,14 85:20,21
<b>issued</b> 232:13	147:4,7,9,22,23	<b>ken</b> 243:23	85:21 87:17,18,20
235:9	148:3,13,19,21	kenneth 2:9 175:21	88:16 89:17,25
<b>issues</b> 178:8	149:1,6,10,12,13	176:19	93:14,16,18 94:7
<b>it'd</b> 26:6	150:15,16,25 151:2	kenny 175:7	95:11,15 97:16,20
items 30:9 69:5	151:10,22 153:9	kept 160:10,12,13	98:10,11 99:5
j	154:18 155:23	161:9	100:2 101:6 102:3
james 232:13	156:2,9,15,15,21	<b>kind</b> 24:17 34:22	102:4,23 104:6
233:14	157:6 162:10,24,25	55:5 86:1 138:8	111:1,7,9,10,11
jeff 175:6	168:3,11,19,21	140:23 149:8 173:4	114:16 117:5,9
jet 80:13,14 83:1,4	169:1,20,22,23	176:12 183:19	118:2,3,10,14
84:19 85:11 113:17	170:3,5 185:3,15	209:12 240:25	121:4,15 126:7,12
137:24 159:7,7,8	185:25 186:16	kinds 223:18 244:2	126:13 136:19,25
159:21 160:25	188:13 193:10,15	<b>knew</b> 157:23	137:1,9,15,21,21
165:8 185:3 233:22	195:17 196:17	<b>know</b> 7:19 8:19,20	137:23 139:14,19
jets 38:1,1,1 52:18	197:6,7,14 198:6	11:11 12:14,14,14	140:1 141:23
53:2 54:3 80:6,7,11	200:6,15 201:1	15:22 17:2 18:20	142:20 149:12
82:12 83:1,12 85:4	202:7,20 203:6,20	18:22,23,23,25	150:20,24 151:2
139:22,22 158:15	208:18,20 210:17	20:10 24:8,12 25:5	155:1 157:25,25
159:6,23 160:2	210:21 212:18,25	25:13 26:4,6,7 27:3	158:1,10,11,12,13
<b>job</b> 127:13 133:15	216:3,13,16 217:3	27:12,14 28:10,23	158:22,24,25,25
191:6 192:11	218:21 219:4,21	29:11 34:25 35:2,9	159:1,1,6,8 160:13
206:20 245:10	222:12,16 224:1,13	35:18 37:9 38:12	162:19 163:7 164:2
<b>jobs</b> 206:12	228:11,11 236:17	38:17,18 39:18,19	164:22 165:3,22
	239:6 242:17,20	40:11,14,15 41:6,7	177:9,24 178:18,23

180:21 183:9,22,23	knows 227:21	lengthening 144:13	limits 69:17 86:5
183:24 184:6	1	lengths 191:11	86:11 90:6,7,8,13
186:10 187:25	labeled 14:10 21:25	lesser 38:12 91:24	90:15 92:16 94:2
189:14 190:13	136:11	97:23 113:4 121:5	94:12,14 95:7,23
191:5 192:6 194:22	language 92:3	121:19 244:3	95:25 96:2,10,11
194:23 195:24	206:25 208:9,9	246:19	96:18,25 97:11
197:14,25 198:16	,	letter 14:10 21:17	98:7,18,19,24
198:23 199:15,17	laptop 176:18	letting 42:11	129:25 153:9 154:9
200:20 202:2 206:4	large 1:22 122:23	<b>level</b> 49:15 64:14	154:16 155:11,17
206:4,8,8,13 207:8	189:7 250:6	171:20	225:3
207:20 210:4,5,15	larger 37:22	levels 244:4	<b>line</b> 22:4,6 23:18
221:3 222:10,15,16	127:17 132:9,10	liberties 178:13	27:3 57:2 67:14
223:1,18 224:5,15	160:2 189:6 192:20	<b>lift</b> 112:20,21 113:2	76:8,14 77:20
225:7,11 226:11	210:25	113:3	86:15,24 109:8
227:18,20 229:8,15	late 233:16	lifts 227:12	113:16 115:17,17
229:23 230:9,13,15	law 2:4,10 241:7	light 119:20	116:12 123:7,9,9
232:20 233:15	lawsuit 11:19,20	limit 58:16 87:23	158:5 174:3,5,7
237:17 240:1 242:8	166:15	91:4 97:13,19	175:7 176:7,12
243:6,7,12 244:1,3	lawyer 240:19	119:10 224:24	177:19,22 200:2
244:17 245:4,7	lawyers 152:15	225:6	213:20
246:6 247:4,5	lay 180:22	limitation 109:18	lines 27:4 57:2
<b>knowledge</b> 6:23 7:1	layer 49:15 50:25	111:11 118:2 121:8	206:9
11:6 114:24 115:3	54:10	145:15 200:4,21	link 102:4 104:7
183:25 184:18,25	layers 24:12	248:2	124:7 235:21
185:22,24 186:7	laying 116:7	limitations 33:25	links 104:12
214:24 217:12,14	166:19 167:4	108:10 109:15,16	liquid 43:10,18
214.24 217.12,14 218:6 220:12,15	179:22 180:18	110:11 120:2,13,24	57:10 74:4 75:10
218.0 220.12,13	leading 215:4	121:12 147:21	
	246:22		75:12 108:12
<b>known</b> 19:2 75:21 85:25 95:15 125:9	leave 59:1 244:15	200:4 <b>limited</b> 14:21 24:6	115:20,21 132:19 132:25 134:9
	leaving 59:5		
128:25 133:11	leeway 159:11	24:7 33:10,21,23	140:16 147:21,25
135:22 136:4	<b>left</b> 22:5,8 180:25	39:12 41:7,13 44:6	151:14 199:25
143:17 156:17	legal 1:18 18:11,16	45:13,22,25 58:12	list 14:8 15:5 21:11
158:3 162:16 193:5	134:2,5,6 135:12	60:1 67:18 69:1	156:7 228:17 232:4
193:6 195:7,18	152:15 241:6,14,16	78:6,8 100:21	listed 56:9 69:5
197:7,9 203:3	241:17	176:3 209:4 225:1	litigating 177:12
208:21 210:24	length 101:6 191:4	239:5	litigation 8:2,8
214:22 217:2,2,7	192:8	limiting 87:18	166:22 167:7,10
217:20 227:20	lengthen 132:13	90:10,22 96:6	176:9 177:1 178:4
230:24 238:18	138:10 156:2	97:14,21 111:9	178:8,19,25 179:18
			180:2,19 181:7,14

## [litigation - mark]

250:14	looking 21:18 87:8	247:16	186:15,16 200:15
little 176:13,18	132:14 135:18	lucid 174:10	200:17,24 201:2,2
live 65:25	144:18 156:7	lunch 72:25 99:2,7	201:2,3 204:9,9,23
<b>llc</b> 1:8 2:13 175:20	236:20 237:12,16	99:10	205:9 208:14,18,23
<b>lng</b> 172:17	looks 144:22 145:2	lunchtime 108:6	209:9 210:10,12,17
load 188:3,4 189:1	185:17 191:16	<b>lytvyn</b> 2:3 5:11,16	210:20,21 215:1
192:18 194:9,23	227:5	8:17 72:18,21,24	216:13,16 223:7
201:24 244:21	loose 47:11,12	99:3,6 166:6,12	224:3,4,7,8 229:23
loaded 143:11,12	lot 19:15 41:8 55:2	167:18,21 174:19	233:1 236:16 237:8
187:16 191:6 192:3	75:20 78:12 80:9	174:23,25 175:4,9	237:25 238:5,9,14
194:14,19 198:12	87:3 97:5 101:4,14	175:10,25 176:15	238:25 239:1 246:5
loading 189:2	103:23 149:24	179:5 181:8,21,23	246:5
192:17 193:20	158:16 159:3 161:2	182:6,12,24 214:3	machinery 13:14
194:4,7,25 244:18	180:11 202:1	215:11 223:9	193:12
244:21	211:12 214:21	239:21,24 248:12	<b>machines</b> 39:8 41:2
<b>long</b> 48:5 99:2	222:14,15 229:13	248:16	71:6 89:12,14
103:23 134:10	229:23 230:2,16	m	115:9 163:16
152:8 181:24	239:2 240:25	<b>m</b> 3:1	165:16,17 204:2
190:12 191:1,14	241:25 243:5 244:3	<b>machine</b> 20:4,5	212:4 214:5,9,23
192:10 206:20	lots 20:13 22:23	26:5,5,6,9,10,11,14	215:7,12 220:5
longer 99:3 138:13	25:3 32:20,25	26:18 52:3 56:3,16	<b>main</b> 36:9 244:20
157:2,3 168:19	38:22 39:13 43:1	57:8 60:24 61:4,7	maintain 154:24
239:13	44:12 45:6 50:7	67:16 70:1,15,17	maintaining 9:12
longitudinally	52:3 56:5 57:15,19	75:6 78:1 81:16,21	40:23
189:3 192:17	58:13 61:17 71:6	81:24 82:2,6,14,19	making 103:13
244:21	91:23 111:7,8	85:8,10,14 86:11	119:10 120:22
longstanding 22:11	141:24,25	91:9,23 98:12,13	215:13
look 18:20 24:5	<b>low</b> 39:19 47:22	113:3 115:4 121:2	maneuverability
35:1 39:17 54:1	50:17 66:2,4,5 69:6	121:4,18 124:8,18	169:6 243:5 245:20
60:8 65:10 72:22	69:8 117:24,25	125:9,10,21 126:15	maneuverable
82:16 128:5 144:20	118:3 145:8 151:1	127:11,19 128:20	169:4,16
163:9 165:4 199:25	247:9	127.11,19 128.20	manner 238:13
200:13 223:21	lower 35:19 36:11	134:21,25 135:1,8	246:23
229:11,22,24,25	36:16 37:15,25	134.21,25 135.1,8	manufactured
230:14 231:9,13	50:16 51:16 66:1,3	146:15 151:2 160:2	165:25
looked 7:18 18:24	67:22 69:9 70:7	140.13 131.2 100.2	manufacturing
74:14,15 93:17,18	71:2 85:11 91:9,10	163:13,15,19,24	166:23
95:3,14,15 97:5	98:12 119:10	163.13,13,19,24	mark 5:7,9,19
153:2 196:18	146:18,18,18 160:3	165:16,25 166:4,21	20:14 59:1 113:23
226:13 230:17	204:11,20 205:19	183:13 184:3,6,7	122:6 124:23
242:9 243:6	244:5 246:18	185.15 184.3,0,7	126:19 170:12
		107.17 103.3,0	

## [mark - minute]

225:21 235:2	38:21 39:5 42:25	59:16,18 60:18	134:3,9
<b>marked</b> 5:8,21 6:5	44:20 50:6 54:18	63:11 64:10,25	measurement
6:9 20:16,19 62:6	54:21 55:4,6,22,25	65:20 66:11,22	190:14
122:9 126:21,24	55:25 56:4,6,11,18	71:19,21 72:8	mechanical 50:23
130:24 131:1,4	56:21,22 57:4,5,14	73:17 74:12 79:2,4	medium 147:19
170:14,17 187:1,4	57:18 58:18,19,20	79:18 80:7 82:10	<b>meet</b> 81:1
225:23 226:1 235:4	59:21 61:15,21	82:25 83:14 84:13	<b>mention</b> 153:8
235:7	62:18 63:2 132:20	84:21 85:3 87:17	mentioned 55:23
<b>market</b> 88:24 95:16	133:16 134:21	92:4 93:6,14 94:19	70:24 90:6 109:4
135:22 156:18	146:14 203:22	97:4 101:5,11	116:8,9,10 120:21
162:16 208:21	204:10 205:18	102:3,4 103:21,22	154:16 180:3
210:24	208:25 209:2 212:5	110:15,25 111:7	221:10 234:10
marketable 239:3	228:7 233:2 236:9	117:4,19,24 126:8	247:22
marketed 113:22	237:11 238:4,15	130:18,23 136:19	mentioning 116:6
114:4 164:6 165:25	243:16 246:6,12	137:1,21 138:8,19	<b>merely</b> 110:7
233:24	material 10:21	140:2,12 141:1	<b>met</b> 22:12 177:9
marketplace 234:1	54:14	144:1 145:14 148:2	methacolade 28:13
markets 113:17	materials 60:2	148:7,12 150:20	methacolades
233:21	94:23 113:2 178:9	153:12,22 155:5	54:23
marking 25:10,15	204:21,22	156:2,5 159:18	method 98:1
26:25 27:1 54:24	<b>matter</b> 4:10 31:1	160:12 164:21	226:10
54:25 66:18 133:13	75:11 174:10	172:7 173:9,21	<b>michael</b> 175:6
134:18 135:10	177:15 228:11,13	178:7,12,21 179:1	<b>mid</b> 9:22 240:17
159:20,21,24	<b>matthew</b> 171:5	179:3 180:9,11	<b>middle</b> 8:4 236:22
161:16 163:2,15,16	maximum 35:11	181:2,9 183:21,21	<b>mildew</b> 29:13
163:20 165:15	38:20 160:13	191:25 192:21	<b>milling</b> 46:21 47:7
168:13,25 169:9	173:23	193:5 195:14,14	47:8 50:24
186:25 187:24	<b>mchale</b> 2:9,10	196:14 199:4,12	<b>mind</b> 82:6 145:15
188:7,18 189:9	32:12 72:14 175:22	201:14,17,22,22,25	149:5,7,11,12,13
193:11,13,18,19	<b>mean</b> 12:12,13,22	202:18 206:4,17	219:8 240:6 247:17
194:1,6,11,13	13:10 15:17 16:12	210:3,4 211:11,24	minded 7:20
195:1,2 197:2	19:12 26:3 27:12	214:2,17 218:2	<b>minds</b> 242:7
198:8 200:13,19	27:13,14 29:11,11	222:5 223:14,16	<b>mine</b> 32:8
201:13,16 204:15	29:12 30:14 34:14	228:10 229:24	<b>minimum</b> 40:11
216:17 219:2 220:6	35:5,8 36:8,9 37:10	230:1,4,14 231:19	50:19 63:16 160:19
227:23 235:16	37:13,24 38:11	232:20 233:8	209:9,23
238:10 246:7,9	39:13 40:14,17,20	235:19 237:13	minority 100:6
markings 22:22	43:4 46:18 49:17	238:24 246:17	minuscule 49:15
23:1 24:5,7,16 25:2	50:13 51:10 52:17	meaning 138:2	159:15
25:4,8,23 26:1 28:2	53:13,15 54:3,9,12	<b>means</b> 36:25	<b>minute</b> 37:21 38:3
28:7,14 33:18	54:25 55:21 58:22	100:17 103:10	76:22 77:23 78:18

79:5,23 80:16     135:24 139:21     231:3,5,11 243:15     129:3,13 130:1       1111122112     1111122112     1111122112     1111122112	0.16
	0,10
81:10,22 82:21 141:1,2 143:15 <b>necessary</b> 50:25 130:22,23 131	7,14
83:10,11,20 84:10 156:9 162:14 168:7 209:8 132:8 133:12,1	8
84:11,23 87:2,13 223:23 231:23,25 <b>need</b> 22:12 24:17 135:16 137:18	
88:10 89:18 109:12 242:17,19,24 243:2 25:1,25 34:16,22 138:5,9,22,25	
110:23 112:13243:11 245:1038:9 45:17 52:6139:3,5,20,21	
116:17 117:21         246:8         59:7 62:20 65:3         140:3 141:3,14	
137:8,10 138:17 <b>mount</b> 125:23,25 68:2 78:22 85:21 142:15 143:8,1	5,24
183:2 189:11126:1 157:2,3120:9,10 133:17,17144:2,3,4 145:	17
206:10 209:7 169:10 138:15 145:24 145:25 146:8 1	47:2
240:13         mounted         42:24         157:9         178:18,21         147:5         155:23         1	56:3
<b>minutes</b> 239:25 57:3 76:20 115:23 179:1,14 182:3 156:9,22,24,24	
248:11 116:14 127:23,25 184:16 190:7 191:2 157:1,8,10 158	:20
misleading         54:12         128:3,6,7 212:21         200:23 223:1         161:21,25 162	2,11
<b>misunderstood</b> 213:7 237:22 162:12,21 163	5
97:16,16,18 <b>move</b> 36:25 160:20 <b>needed</b> 16:5 113:3 164:14 168:5,1	1,17
mobile         115:23         moved         93:17         needing         49:6         168:18         169:20	22
127:13         132:2,3         movement         104:9         needs         53:4         184:2         169:23         170:1         1	71:6
<b>mock</b> 84:15 104:10,11 161:1 202:3 243:10 172:11 185:7,1	0,19
modifications         mover         76:19         negative         112:19         185:21         186:17	19
138:8 139:1         116:13 127:17         171:7,8 173:1,8         202:21 203:7,2	3,25
modify         135:15         moving         108:1         245:9         204:11 206:1,7	
156:15 242:17         115:16         neither         126:9         215:18,19,19,2	1,22
modifying         244:8         multiple         53:2         216:21 250:11         217:4 222:17 2	33:9
245:1         multitude         38:4         neukomm         1:21         233:21         236:16	
mold         244:3         71:4 78:6,14 79:16         249:18 250:4,25         237:18 243:3,4	,13
moment         239:22         80:7         145:23         229:10         never         11:16         49:7         243:17,20,25	
morning         4:8,9         230:14         49:11,14 72:3         245:15,17,23 2	
70:21 132:24         municipal         127:12         208:8 218:8 242:11         non         22:13 28:1	
motivate         131:25         242:21         new         22:13         nonbiased         167	
<b>n nicholas</b> 2:2 175:10 <b>nonleading</b> 240	
168:4 196:20 206:2 <b>n</b> 3:1,1 187:7 <b>nick</b> 177:16 <b>normal</b> 65:20 8	
<b>238:11 name</b> 4:15 113:18 <b>nib</b> 35:9 38:18 111:2,2,6,20 1	
<b>motivated</b> 131:17 40:15 47:25 66:22 118:8,11,13,19	
$142:15\ 162:19$ named $21:19\ 249:6$ $74:13\ 88:15,17,19$ $119:1,3,9,11,29$	
163:8 188:21 narrower 158:15 88:23 89:20 90:1 normally 172:3	
191:15 214:1 narrowly 201·21 109:5,22,23 111:12 206:14	
motivation 125:18 $201:22$ 111:23 113:17,21 north 1:19 2:4	
125:20 127:16,18 navigate 176:22 124:19,21 125:8,10 notary 249:19	
129:1,4,10130:9 necessarily 38.16 $125:16126:10,16$ 250:5	
130:10 131:23     112:16 228:10     126:17 128:23	

Veritext Legal Solutions

## [notation - okay]

notation 178:22	<b>numbers</b> 5:12,18	82:8,23,23 86:13	224:25 225:10,18
<b>note</b> 23:14 91:7	numeral 6:14	86:17 87:24 89:1,1	228:3,24,24 230:8
155:18 240:7,10	numerical 108:9	90:3 94:5,15 96:4	231:4 232:6,18
246:21	109:14 110:4 120:1	102:2 104:22	233:6 234:3,14,15
<b>noted</b> 129:24	120:24 121:12	105:16 106:10	235:1 236:12
<b>notes</b> 250:10	<b>numerous</b> 155:12	107:21 108:17,23	objections 23:18
<b>notice</b> 96:16 236:21	200:3	109:19 110:5,14,24	167:4
240:12,14	0	114:12 115:1	<b>objective</b> 77:15,15
<b>noting</b> 154:14	<b>o</b> 3:1	117:14 118:24	81:2 82:17 86:2
164:14 180:19	oath 3:5 4:4 27:17	119:21 120:4 121:1	97:2 131:18 237:20
<b>novel</b> 193:7 231:1	240:17 249:1	122:19 123:19	238:17 246:4
<b>nozzle</b> 42:24 52:12		130:5 131:16 133:4	objectives 77:11
52:13 54:2 57:3	<b>object</b> 8:17 16:19 116:1 122:25	135:4,19 136:24	obvious 22:13
79:23 80:8,16,21		138:6 139:4,25	136:6 145:15
80:25 81:1 83:5,12	228:14	140:8,25 141:11	153:13 156:19
83:14,15 84:24	objected 246:20	143:1,10 144:24	162:18 188:12
105:15 137:11,21	<b>objecting</b> 21:5	146:2 150:18 154:2	197:17 218:3
142:10 145:1	177:18,19	154:20,23 155:25	231:17 232:8
147:21,24 158:23	<b>objection</b> 8:25 9:6	156:11 158:9 163:3	obviously 114:7
159:13,15 165:9	9:13 10:17 11:3	163:23 164:9 165:2	237:16 243:7
172:13 174:11	13:2,8,15 15:1,15	166:3 168:6,15	247:16
185:4	16:6 17:11,17,25	169:12 170:4,11	obviousness 18:23
<b>nozzles</b> 37:17,22,22	18:7 19:19 20:21	172:5 173:6,20	18:25 112:1
78:21,24 79:3,4,13	21:1 22:14 23:7,7	179:25 184:4 186:1	occur 45:20 46:6
82:7,9,15,22 83:20	24:1,1,18 26:2	188:15,22 189:25	48:22
83:22 84:4 85:1	27:11,23 28:3 29:5	189:25 190:17,18	october 1:15 249:9
137:9,13 139:20	29:24 30:6,17 31:3	191:3,19 194:16	250:16
142:19 157:24	31:10,21 32:1,7,22	195:12 196:5,12	offer 148:21
158:7 168:21 171:6	32:22 33:7,20 34:3	197:24 198:9,20	offered 60:13
171:15,16,19,24	34:7,17,17 35:6,16	199:10 200:8	office 1:1 92:4
173:5	36:5,17 37:19	201:11 202:13,23	96:17
number 5:23 14:8	38:24 39:10 40:2	202:24 203:10	official 249:8
19:4,7,23 21:12	41:5 42:9 43:3 44:4	204:7 205:12	<b>oh</b> 60:19 77:21 93:9
42:20 76:13 84:13	44:15,23 45:8,21	206:16 207:6	136:9 155:6 170:20
108:3 123:7 127:1	46:7 50:9 52:14,25	208:15 209:10	239:20
132:16 159:6	53:6,24 55:11 56:7	210:2 211:3,17	oil 39:18
170:25 187:7	57:25 58:15 59:3	212:19 213:3,19	oils 29:13
226:24 235:10	60:3 62:3,12,25	214:15 215:3 216:5	okay 5:10,19 6:8
236:21,23	64:1,9 65:5 68:20	216:15 217:6,16	8:15 9:25 12:23
<b>numbered</b> 42:2	70:5 74:22 77:1	219:19 220:16	15:21 20:7 21:18
65:14 108:2,4	78:2,23 79:8,24	221:20,20 222:21	22:3,9,9,19 28:19
	80:5,22 81:8,23		

Veritext Legal Solutions

30:11 32:17 35:22	<b>ones</b> 25:6 56:9	167:1,15 170:3	143:8 144:6,20
36:23 38:8 40:13	111:14	177:23 178:12,15	145:16 146:4 147:6
41:21 43:12,18	<b>open</b> 7:20 158:17	179:22 184:1,13	149:20 150:13,20
48:6,19 50:3 56:14	158:25 227:12	195:11 199:6,12,13	153:4 164:19 168:4
57:21 61:13 63:23	<b>opening</b> 159:16	199:13 215:17	168:24 169:7,19
64:17,22 65:12	<b>openly</b> 114:17	218:17 226:9	191:9 195:23
67:24 72:20 73:10	operate 39:9	231:12,20 232:10	197:13 199:17,20
73:16 74:10 75:15	138:24 141:10	232:16 238:22	200:11 203:15
76:7,13,15,23 77:5	142:7 239:10	opportunity 194:25	204:14 205:14
79:13 83:4,13	operated 70:3	<b>opposed</b> 189:2	208:12,17 209:8,14
87:10 88:3 89:9,16	123:12	244:20	209:22 210:9
98:15 100:10,12	operates 86:12	<b>opposite</b> 49:10,12	213:25 214:4,8,11
103:5 105:20 106:3	operating 37:5	optimum 53:8	214:19 216:23
107:2 113:6 115:23	50:4 91:20 129:7	order 145:25 241:6	228:20 231:13,18
117:2,6 124:10	180:13 209:24	orders 246:15	231:21 232:2 237:5
128:9 131:4 132:12	229:9 239:8	ordinarily 34:1	238:4,11 244:6,24
134:12 135:1,11	operation 20:3	45:16	245:14 246:1
140:14 143:7,23	46:6 47:7 51:6	ordinary 8:18 9:16	orientation 230:1
145:12 150:1,7,10	92:17 128:20	15:19 26:24 30:13	237:15,17
156:14 157:22	<b>operator</b> 183:13	32:18 33:14,17	orifice 81:3 83:5
161:17 163:12	<b>opine</b> 86:4	40:4 44:9,14,19	84:4,12 159:19
164:5 165:20	opined 45:2	45:3,15 51:18 58:6	origin 162:25
166:12 167:17	<b>opinion</b> 7:12 11:9	59:20 62:23 63:14	original 212:20
170:2 171:12 172:2	16:25 19:5 21:2,5,7	65:18 66:10 67:5	outcome 7:25 167:6
173:2,14 174:9	30:8,12 44:10 50:4	68:9,13 71:9,22	250:15
179:24 181:1,16	60:14 66:7 69:24	73:10 74:5,25	outcomes 180:20
182:9,15,21 183:1	69:24 71:14 75:23	75:24 77:5,10,19	outfitted 228:1
184:13 186:21	85:17 90:12,21	77:25 83:17 84:3	outlet 172:13
193:1 195:23 202:6	92:22 94:24 95:19	85:7 86:21 87:15	<b>output</b> 137:8
209:14,21 212:14	95:24 96:3,23 97:2	88:10 89:22 98:3,5	outside 21:6 96:12
215:19 216:19	97:3,10 98:1,4,24	98:10 109:16	171:8 180:7,9
222:11 225:8 229:3	100:16 102:1,10,15	110:21 112:8,10,13	222:21 225:3,5
234:7 235:15	103:10,14,19 104:4	112:17,22 114:21	overall 188:10
239:18,20,21	106:8 108:8 109:21	115:13 116:17,23	229:23
240:21 241:9,19	111:3,17,21 112:1	117:11,16,20	overlap 62:5
244:19 247:7	115:12 118:9,16	118:12,16 119:19	179:19
oldsmar 2:5	119:7,8,16 120:6	119:25 120:11	overly 192:10
omissions 91:15	121:22 130:12	124:13 125:12	owner 1:9,14 2:12
<b>omitted</b> 100:23	135:13,13 145:12	130:13 133:1,25	92:5 175:21 176:20
<b>once</b> 206:23 207:4	148:7 149:15 150:2	134:6 135:14,17,20	owner's 5:9 96:17
236:3	150:4,9 165:22	136:1 138:1,20,24	

# [ownership - patent]

ownership 99:19	98:16 100:13	<b>passed</b> 99:21	126:25 127:1,3,5
99:20,25 100:3,6	104:16 108:2,4,5	passing 99:23,24	127:22 128:5,11
177:5 181:3	121:23 140:20,21	patent 1:1,1,2,9,14	130:1,14,16 131:15
	145:12 147:18	2:12 3:9,11,12,14	133:1,6 135:18
p	151:17 152:22,24	3:15,17,18,20,21	137:10 142:15,16
<b>p</b> 232:13 233:14	174:2 233:20,23	5:9 8:9 12:12,15,17	142:24 143:2 144:7
<b>p.a.</b> 2:10	parameter 239:8	14:11 18:21 19:23	144:19,21,22 146:1
<b>p.m.</b> 1:17 99:10,11	parameters 161:6	19:24 21:1,3,12,16	146:17 147:22
147:13,13 186:23	229:21	27:18 28:17 32:15	149:6 151:8 153:24
186:23 239:17,17	parking 22:23 29:3	33:14 39:3 41:1,6	154:16,25 156:6
240:4,5 248:18	32:20 38:21 43:1	41:11,12 42:1,5,7	159:25 164:5
<b>pacific</b> 100:20	44:12 45:6 50:7	42:10,17 43:8,16	165:14,24 166:16
107:13	56:5 57:15,19	43:21 44:2,3,11	166:18,20 170:25
<b>page</b> 3:2 6:12,13	58:13 61:17 73:7	46:11 56:20 58:10	170:25 171:2,4,5
7:4,4,10 14:8 15:5	73:25 113:13 209:2	60:10,13,18,23,24	172:10,16 173:13
18:11 19:7 21:9,14	part 12:14,15,15,17	61:1,11,25 62:1,10	175:21 176:20
21:17,18,24 22:1	14:2 19:3 35:8	62:17,17 66:9	178:23 179:2,4,16
29:25 30:2 43:11	46:14 47:2 56:21	67:16 68:4,5,18	180:8,10,18 185:2
43:12 65:10 69:12	103:14 110:2	69:3,13,22,24 70:2	185:3,7,8,9 186:18
69:12 86:3 100:11	132:17 133:11,16	70:18 71:11,16,24	186:20 187:6,7,8
108:2,4,5 132:15	180:14 202:16	72:5,14 73:3 74:20	187:12,14,15
140:19 144:21	241:10,15	75:2,22 76:2,5 77:8	188:12,13,14,24
147:18 154:4 155:2	partes 1:12 3:6	77:14,20 79:20	189:5,18 190:10
155:7,10 208:4	4:12 7:13 8:9,13	86:10,12 87:23	191:18 193:15,16
209:17	9:11 19:24 60:14	88:14 90:8,14 91:3	197:4 198:2 199:9
paint 27:5 28:11	167:9 248:18 250:1	91:8,21 92:2,5,18	199:22 200:17
39:15 42:22 43:5	250:8	94:3,6,7,7,8 95:2,9	204:8,16,23 205:7
50:11 56:18 68:23	partial 207:8	95:11,12,24 96:12	205:7,8,16,17
69:14 70:1,4,15	particular 41:11	96:13,17 97:10	211:16 213:1 215:5
76:4 113:18 246:9	42:10 52:2 103:24	98:6,21 100:22	215:8,18,19 217:5
painting 55:14	146:15	101:3,16,18,20,22	219:22 221:7 222:3
paints 54:22	parties 175:8	102:20 108:7,9,16	223:24 226:4,24,24
<b>palm</b> 2:11	250:12	108:22 109:7,14,22	227:25 230:25
papers 11:9	partner 99:17	110:3,13 112:11,23	231:19 232:5,13,17
<b>paragraph</b> 6:14,21 7:8,10 10:21 18:11	parts 85:25 156:7	113:6,14 114:10,21	233:11,19 234:9
22:20 23:23 30:11	229:9 232:4 241:14	117:13 118:15	235:8,9,9,10
	241:16,17	119:20 120:14,17	236:11 237:24
30:20,21 31:8,16 31:19 32:5,10,18	party 8:12 167:8	120:18,23 121:11	238:22 239:4,11
32:19 42:3 45:5	250:13	123:1,6,6,24 124:2	242:9,16,20 244:8
48:9 50:3 65:13	pass 161:18	124:12 125:3,7,8	245:13 246:17
76:14 86:4 91:11		125:11 126:4,18,25	247:19,22
/0.14 00.4 91.11			

patented 151:3	89:22 140:2 192:5	197:13 199:16,17	52:14,25 53:6,24
patentholder 221:7	194:23 195:23	199:20 200:10,11	55:11 56:7 57:25
patents 12:13 14:8	197:12,20,23	203:14 204:14	58:15 59:3 60:3
14:15 15:6,12	198:11,17 200:6,16	207:21 208:11,17	62:3,12,25 64:1,9
211:12 231:10	200:22 201:4,17	209:8,14,22 210:9	65:5 68:20 70:5
232:21,23 235:12	202:2 218:9 219:1	214:3,8,19 216:23	71:25 72:3,22 73:1
<b>pavement</b> 22:22,25	219:14,25 220:4,17	228:20 231:12,13	74:22 77:1 78:2,23
24:5,6,15 25:1,3,8	220:24 233:8	231:18,21 232:2	79:8,24 80:5,22
25:10,15,23 26:25	234:11,20	237:5 238:4,11	81:8,23 82:8,23
27:1 28:7 33:18	<b>people's</b> 202:3	244:6,24 245:14	86:13,17 87:24
38:21 39:4 42:25	<b>perceive</b> 144:16	246:1	89:1 90:3 94:5,15
50:5 52:11 56:21	perceived 95:17	personal 185:24	96:4 99:1 102:2
57:4,18 61:15,21	percent 99:20	186:7 217:11,13	104:22 105:16
63:1 68:19 113:18	100:1 139:17 167:8	218:6	106:10 107:21
133:13 134:18,21	177:5,25	personally 185:13	108:17,23 109:19
135:9 146:13	percentage 99:24	186:13 249:6	110:5,14,24 114:12
159:20,21,24	perform 39:8	perspective 237:18	115:1 116:1 117:14
161:16 163:2,15,16	permitted 176:12	pertaining 176:5	118:24 119:21
163:20 165:15	person 7:19 8:18	176:11 177:18	120:4 121:1 122:19
168:13,24 169:9	9:16 15:19,25	pertains 176:1	123:19 130:5
187:24 188:7,18	30:12 32:3 45:15	<b>petition</b> 60:16	131:16 133:4 135:4
189:8 193:11,13,18	58:6 59:20,23 60:7	93:16	135:19 136:24
193:19 194:1,6,11	64:12,13 65:18	petitioner 1:6 2:6	138:6 139:4,25
194:13,25 195:2	66:10 68:9,13 71:8	175:10	140:8,25 141:11
197:2 198:7 200:13	71:21 77:10,25	<b>pfeifer</b> 2:2 3:4 8:25	143:1,10 144:24
200:19 201:13,16	86:21 91:1 97:8,9	9:6,13 10:17 11:3	146:2 147:10
204:15 205:18	98:3,5,10 109:16	13:2,8,15 15:1,15	150:18 154:2,20,23
212:4 216:17 219:2	112:8,13,22 114:20	16:6,19 17:11,17	155:14,25 156:11
220:6 227:23 228:7	114:23 115:13	17:25 18:7 19:19	158:9 163:3,23
233:1 235:16	116:17,23 117:16	20:21,25 21:4	164:9 165:2 166:3
237:11 238:4,10,15	118:12 119:19	22:14 23:7,20 24:1	167:13,17 168:6,15
<b>pay</b> 52:18	120:10 124:13	24:18 26:2 27:11	169:12 170:4,11
<b>pcs</b> 233:12	125:12 130:13	27:23 28:3 29:5,24	172:5 173:6,20
pending 8:3,8	132:25 133:24	30:6,17 31:3,10,21	174:13 177:16,16
53:19 73:1 177:1	134:5 135:14,20,25	32:1,7,22 33:7,20	182:19,23 184:4
181:7 183:10	138:1,20,24 144:6	34:3,7,17 35:6,16	186:1 188:15,22
penetrate 165:11	144:20 145:16	36:5,17 37:19	189:25 190:6,17,21
<b>people</b> 5:1,6 12:13	146:4 147:5 149:20	38:24 39:10 40:2	191:3,19,24 194:16
12:16 16:20 29:12	150:12,20 151:4	41:5,16,21 42:9	195:12 196:5,12
34:14 41:8 54:9,19	153:4 168:4,23	43:3 44:4,15,23	197:24 198:9,20
71:5 83:16,16	169:19 191:9	45:8,21 46:7 50:9	199:10 200:8

		1	I
201:11 202:13,23	<b>pivotally</b> 187:16	<b>posed</b> 174:13	prepared 94:9
203:10 204:7	244:17	<b>posing</b> 153:21	221:1,2,11
205:12 206:16	<b>place</b> 1:18 116:10	154:14	preparing 70:25
207:6 208:15	157:4 161:6	<b>position</b> 7:7 93:1	108:25 120:13
209:10 210:2 211:3	places 243:6	134:2,5,6 180:15	123:2 221:19
211:7,17,20,25	<b>plan</b> 137:2,4	positions 211:13	<b>present</b> 16:14,22
212:19 213:3,5,19	138:12	<b>positive</b> 36:10,12	74:1,17 115:17
213:22 214:15	plane 59:1	36:24 125:5,6,7	122:4 212:10
215:3,10 216:5,15	planning 180:4	126:5,14 186:14	240:15
217:6,16,22 218:11	181:11,15	203:19	presented 16:14
219:13,19 220:9,14	<b>plastic</b> 28:12 38:14	<b>possible</b> 96:2 129:5	93:16 130:21
220:16 221:20	39:16 42:22 43:6	130:9 210:20 222:7	president 4:20,23
222:21 223:1,4	47:24 50:12 51:13	222:8 228:19	5:1 8:12,14 9:10
224:25 225:10,18	54:1,22 68:23	229:12,13,18	39:7 81:17 176:25
228:3,14,24 230:8	78:20	230:18	press 153:15
231:4 232:6,18	please 15:3 22:15	potentially 26:17	pressure 22:24
233:6 234:3,14,17	23:10 39:1 44:25	29:6 39:20 49:20	24:23 25:1,24 26:7
235:1 236:12	62:14 77:9 87:7	52:17 85:23 100:9	26:8 33:6 35:18,19
239:13,20,22 240:1	<b>plunger</b> 36:8,10,13	115:7 117:4 133:10	36:1,7,11,11,12
240:8,11,23 246:25	37:1,2	184:6 229:7 243:18	37:3,16,23,25
247:1 248:8	plungers 37:1	<b>pounds</b> 26:15,16	38:12,20 39:19
<b>pfeiffer</b> 175:11	<b>po</b> 5:10	123:13 125:1	42:24 43:10,17
<b>pga</b> 2:11	point 18:22 41:18	<b>power</b> 84:17 86:25	46:17 47:5,12,16
<b>phone</b> 35:7 174:20	101:2 104:17	87:4,5,14,19,21	47:22 48:8 49:3
175:6,6	176:22 178:1 181:2	90:25 104:25 105:4	50:16,19,22 51:3,7
physical 96:13	181:18 182:11	105:25 108:3,11,11	52:5 53:8,9,10,11
242:2	pointing 236:24	109:6,10 110:10,22	53:12 54:2,17,18
physically 10:1,3	<b>points</b> 104:8,12	110:25 111:1,19	57:10,19 61:19
223:12	polarity 82:9 171:6	112:12,15,18,21	62:11,24 63:3,17
<b>pickup</b> 191:16	<b>polymer</b> 27:8,12,15	117:22,25 118:4,6	65:3,7,14,19,21,23
<b>piece</b> 20:22 188:5	49:25	118:10,23 119:1,1	65:24,24 66:1,2,2,3
210:16 230:3	polymers 27:5	119:2,9,9,11	66:4,5,7,11,12,15
<b>pierce</b> 247:14	portable 127:14	120:25 127:22	66:16,20 67:6,22
<b>pin</b> 104:7,9	242:22,25	139:22 145:1 150:5	67:23 68:3,5,10,17
pine 2:4	portion 43:23	156:25 192:1 206:8	69:7,9,19,20 71:5
pinpointing 159:14	132:17 133:3	246:11	73:6 74:4 75:10,12
<b>pins</b> 104:11	<b>portions</b> 12:24 16:2	powerful 145:21	75:25 76:20,25
<b>piping</b> 123:17	16:3 113:7	preparation 107:18	77:3,21 78:22 84:5
<b>pit</b> 160:10	posa 65:18 69:18	prepare 10:4 12:1	85:5,11,20,24 86:8
pivotal 235:21	86:6 90:14 154:10	93:20 107:15,20,23	87:6 90:10,24 91:1
_		107:23	91:3,24 95:7 97:22

## [pressure - prosecuted]

98:16,17 102:19	173:1,8,23 199:25	principle 4:24	234:8,11,12,21
104:21 105:8,21,22	203:22,24 204:21	166:23 176:24	237:7 238:8 239:6
105:23 106:24	204:21 205:24	178:23	240:18 241:20
109:5 110:23	209:4 228:1 233:21	<b>prior</b> 10:6,12,13	242:9,9,13,16,16
112:10,14,20	235:23 236:2,3	18:22,24 35:8	244:7,11,25
113:12,17 114:24	237:23 243:8,14	38:18 42:3,6,20	priority 217:23
115:20,21,22,24	244:5 245:9 246:8	44:1,11 47:25	privileged 18:14
116:3,6,15,18,20	247:2,4,9,11,13,13	66:22 74:12,14	<b>probably</b> 51:20,21
116:25 117:1,3,7,8	247:15,18	75:17 88:18 90:23	51:21 63:21 72:18
117:10,16 123:12	<b>pressures</b> 24:17,20	95:14 99:24 107:9	115:11 126:13
123:13 124:9,20	25:7 27:9 34:22	109:23 111:12,24	136:20 165:10
127:23 128:3 129:7	,	113:15,15 120:9	216:9 225:15
129:7,11,14,15,16	38:6 39:9,21 41:10	121:20 122:13	<b>problem</b> 125:13
129:21,22 130:3,4	47:17,17 48:21	123:2,23 124:11	183:19 184:2
132:19,25 133:12	50:4 51:14,14,21	129:20 130:19	192:21
134:8 139:13,15	52:18 63:11 65:20	133:11 140:13	<b>proceed</b> 182:10
140:17,21 141:3,12	66:21,24 69:2,8,9	143:16 153:2	proceeding 167:6
141:14 142:14,20	70:7 71:2 84:9	156:19,19 162:18	<b>proceeds</b> 167:21
142:21,22,23 145:1	91:10,10,20 97:12	163:7 165:17	<b>process</b> 49:14,21
145:1,5,8,9,10,13	97:24 98:12 102:19	166:16 176:6,10,16	50:8 130:20 178:16
145:14,19 146:18	127:8 128:19	178:20 179:8 185:9	<b>product</b> 166:24
147:19,20,20,21,24		185:10,19 186:17	177:21 178:19
147:25 148:2,4,8	142:5,18 160:3	186:19 193:9	179:3,6,13,15
148:11,12,14,15,19		196:20 198:1,22	180:1,5,6 181:11
148:20,22,22,23	180:13 204:1,11,20	199:7 201:1 203:1	181:12,13,20,25
149:1,3,4,6,7,8	204:25 205:20	203:2 204:12 205:9	professional 1:21
150:6,14,16,17,22	210:14 236:5,14	206:1,2 208:21	250:4
150:22,24 151:1,1	246:19	210:17,23 215:9,16	<b>project</b> 47:1 206:18
151:2,3,6,6,8,10,13	-	215:16,22 216:2	210:13,22 243:1
151:14,14,22 153:8		217:1 218:5,15,16	projects 243:18
153:10,12,15,18,19	L V	218:19,20,24,24	<b>propel</b> 141:14
154:7,12,12,13,19	238:24	219:22 220:11,21	propelled 113:25
155:19,20 156:14	previous 17:5	220:23,24 221:5,6	115:23
158:1 162:5 163:2		221:6,9,13,16,24	properties 55:2
163:25 164:1,1,3	228:15	222:1,17 223:6,7	propose 104:14
164:12,13,15,20,22	-	223:22,22,25	proposed 30:2
164:24 165:1,6,7	20:22 21:1 32:11	224:11,13,14,24	110:9 118:22
165:12,21,22 168:8		225:5,9,9 226:13	129:21 153:7
168:21 169:1,24	price 202:4	229:17 230:5	178:14 214:6
170:1,3,6,8,10	prime 76:19 116:13	231:10,14 232:16	prosecuted 92:2
171:7,9 172:7,13	127:17	232:25 233:3,9,20	

			_
<b>protect</b> 183:12	153:18 154:3 155:1	85:16 86:25 87:1	<b>pumped</b> 79:22
proven 232:11	157:4,4 161:11,12	88:20 90:1 95:7	pumping 36:14
provide 72:18	164:11,13,16,24,25	105:9,15,18,21,22	63:16 71:11 80:15
95:25 97:10	164:25 165:5,6,7	105:24 108:3,11,12	84:23 105:14 125:1
<b>provided</b> 11:21,24	165:12,22 168:25	109:5,6,10,11	136:21 164:25
15:17 71:25 72:3	169:9,11,15 170:8	110:10,22 115:21	239:7
98:18 187:16	173:17,23,24,25,25	116:15 118:1,23	<b>pumps</b> 35:15 36:2
198:23	174:1,2,3 189:9	120:19 123:12	36:11,13,14,16,19
providing 7:11	200:5,14,20 203:7	124:21,25 125:3,3	36:24 37:5,12
11:12 69:16 86:5	203:8 204:4,12	125:6,6,7,16,23	38:20,23 54:18,18
90:13 94:12 154:9	205:8,11,23,23	126:3,5,6,10,10,13	77:22 81:21 82:20
155:11	206:2,7 210:5,7,11	126:16,17,17	89:12 102:19
<b>psi</b> 26:7,8,21,22	236:13 237:10,23	127:23,23 128:2,3	110:23 112:12
35:10,12 36:2,15	238:2 239:6,11,12	128:18,19,22,22,23	117:25 126:14
36:19,19,21 37:5	243:20,25 244:1	129:3,3,4,7,14,15	132:5,7 136:11,15
37:12 38:9,10,13	247:9,9,10,12,14	129:15,17,21 130:3	138:16 141:10
38:17,20 39:19,20	247:15,16,16,17,23	130:4,10 132:8,11	170:8 189:9 203:7
40:16 47:23 48:1	<b>public</b> 249:19	133:18 136:14,17	203:8,8,17,19
50:15,17 51:16,22	250:5	136:19,21 137:1,2	205:11 228:1,2
51:23 52:10 53:21	publicly 221:8	137:5,19 138:5,9	punishable 7:2
57:13 63:3,3,7,13	pull 98:15 199:7	138:14,16,22,25	purported 178:10
63:22 65:8 66:16	pulling 87:12	139:3,6 140:17,22	<b>purpose</b> 19:15
66:20,24 68:6 69:2	<b>pulverize</b> 46:5,8,21	141:2,3 143:9,14	179:8 226:8
69:2,23 70:3,20	47:2,5,9,18 49:20	143:20,24 144:9	purposes 5:20
71:12 76:21 77:22	50:7,11,20	145:13,21,21 146:8	129:18 153:10
78:18 79:5,9,22	pulverized 42:22	147:5,6 155:20,23	178:20 230:25
80:15 81:6,22	43:5 46:4,16,22	156:3,14,22,24	pushes 37:2
82:20 84:22 85:16	47:6 48:13,15,25	157:4,4,14 161:10	<b>put</b> 16:12 19:4
88:20,22 90:1	49:2,5,18 50:21	161:12 162:11	25:16 53:15 79:23
91:22 95:10 97:24	68:21 79:21	164:23,25 165:1	80:14,16 119:13
98:21 109:23	pulverizing 46:17	168:5,17,18 169:9	134:1 144:9 147:5
116:16 117:2,12,15	53:20	169:11,16,20,22,23	147:6 165:23
124:18 125:4,16,23	<b>pump</b> 36:2,3,8,10	170:1,3,6 171:13	169:22,23 182:14
126:11 130:3,8	36:16 37:12 39:25	180:14 189:9,10	191:15 192:13
133:2 136:15,20	40:5 46:17 51:19	202:21 203:6,7,18	196:3,6 198:21
138:16 142:8,9,13	52:9,12 53:13,14	203:20,23,25 206:7	199:15 202:21
142:25 143:3,24	53:21 57:11,12	206:8 209:6 236:4	233:4 236:3
144:9 145:6,7,14	70:2,19 76:21	236:15 237:3,10,19	<b>putting</b> 126:16
145:18 146:8 147:6	77:21 78:17,22	237:22 243:14,20	195:6
148:3,13,16,21,25	79:21 80:2,15 81:6	243:21 246:2,14	
150:15,23 153:12	81:21 84:22,22		
	1		1

## [qualifications - rearranging]

	104 17 105 11	• • • • • • • •	4 50 4 00 00
q	134:17 135:11	quick 147:11	rate 53:4 83:20
qualifications	142:17 143:7	quotations 100:23	139:19 160:21
15:22 16:3 21:11	146:21 147:1,3	<b>quotes</b> 108:2	209:5
qualify 153:5	148:5 149:11,18,25	r	<b>rates</b> 81:12
qualifying 87:17	151:4 152:14	<b>r</b> 2:2 187:7	rating 84:15
qualitative 69:17	153:21 155:14	radius 169:4,6	raw 161:5
86:6,10 87:22	158:17,25 159:9,12	245:19	reaching 73:17,18
88:17 96:18,25	164:16,18 166:12	<b>raise</b> 168:8,21	read 17:5 21:10
97:11 108:10	167:13,14 172:15	raising 178:17	43:18 50:10 61:24
109:15 120:25	172:15 174:13	ramp 194:3	68:4,7 69:3,4 73:24
154:10 200:4	175:25 176:16	ramps 187:16	74:16 77:20 95:6
quantify 117:2,3	183:7,10 185:12,12	192:3	95:22 96:22 97:14
quantitative 69:17	186:3,4 196:23	range 25:25 35:10	97:20 98:6 101:9
86:5 88:13 90:6,6	197:1,20 198:14	49:3 53:9,13,21	102:15,16 112:24
90:13 94:2,12,14	201:19 202:16	67:6,9 68:8,16	113:7 120:14
95:7,23,25 96:1,10	203:1,13 204:18,19	69:22 70:3,9,19	121:15 129:9,9
96:11 97:13,19	205:3 209:11 212:1	77:21 81:14,22	187:10 199:21,23
98:7,18,19,23	215:13 216:8,11	82:21 83:2 84:11	200:2 219:10 224:6
108:10 109:16,17	217:18,20 218:9,12	84:12 88:3,5,11,16	224:13,14 232:15
110:11,15 120:2,24	219:6,9,10,12,20	88:19 89:25 91:4	232:21,23
121:12 129:25	220:2 221:2,15	91:21 97:13,19	reading 4:17 32:19
153:8 154:9 155:11	225:13 228:15	110:23 116:18	41:1 43:14 44:10
155:17	231:20 243:23	117:12 125:3 130:2	90:14 112:11,23
<b>question</b> 11:17	244:10 246:16	133:1 148:2,12,19	114:21 118:15
13:9 15:3,17 16:7	questioned 4:4	150:14 154:18	119:20 121:10
17:4,5,6 18:1,6,15	questioning 23:19	160:5 200:14 204:3	133:1 219:8 222:11
19:21 23:9,12	176:7,12 177:19,23	205:11 209:4 247:2	222:16 232:3 237:6
31:20 38:25 40:25	240:18	247:3,20,22,24	reads 45:5
43:18,19 44:24	questions 27:21	ranges 25:24 51:19	<b>ready</b> 237:10
53:19 56:13 58:3	31:8 53:18 55:23	52:9 68:5 69:17	<b>real</b> 177:17
62:13 64:2,15,20	112:2,6 119:17	86:5,11 88:13	realize 27:4
66:25 67:1 73:1,23	146:22 154:14	90:13 91:7 92:16	really 5:16
77:9,18 78:19 80:9	167:2,3,4,11 173:3	94:14 95:23 96:1,2	<b>rear</b> 227:5
81:15 89:16 90:5,5	176:5,11,14 177:7	96:11,12,19 97:11	rearrange 138:11
95:18 96:9 97:25	177:9,17,20 178:6	98:8 108:9 109:14	138:13 143:17
99:14 104:18	180:1,5,6,22,23	110:4 120:1,3,16	210:25
105:21 107:18,20	181:10,11,19,24	120:24 121:12	rearrangement
103:21 107:10,20	214:24 217:25	150:8 154:9 155:11	86:1 95:16 124:23
112:2 113:8 117:19	239:19 246:21,23	155:17 180:12	128:24 193:6 217:8
112:12:113:0 117:15	248:9,14	205:7 239:5	rearranging
129:6,18 134:4,7			126:16 144:13,15
127.0,10 134.4,7			

## [rearranging - removal]

144:18	180:18 182:17	233:4 237:7 238:12	relevance 81:23
reason 101:17	183:10 200:2 214:6	239:6	82:8,24 89:2
103:7 122:21	233:19 234:8 240:7	referencing 131:8	101:23 102:23,25
128:16 160:18	240:24 241:24	241:14	164:9 166:17 190:1
166:19 178:1	242:4 247:7 250:9	<b>referred</b> 25:19 43:2	202:13,23 206:16
211:18	recording 175:16	48:25 54:19 55:20	213:3 216:5 217:16
reasonable 28:16	recordings 250:10	<b>referring</b> 12:12,17	222:21 228:3,15,25
65:15	recreate 135:17,21	24:15 28:21,22	232:19 234:14
recall 68:4 96:20	<b>redirect</b> 3:4 239:23	35:15,17 38:4 39:3	235:1
96:21,21,22,24,24	240:22	39:14 41:11,25	relevant 18:11
101:2,3,5,7,8,10,13	refer 26:25 27:1	44:2 45:18 46:22	92:13,14,25 93:4,8
101:14,16,20 102:5	34:15 43:10 44:20	46:25 57:5 58:10	94:24 95:4 96:15
102:17 103:3,3,5,9	55:3 163:25 227:9	60:17 71:16 134:17	109:2 120:5,8
103:12,13,15,18,21	reference 29:17	144:5 154:7 174:15	212:22 213:9,22,23
103:22,24 107:5,7	47:25 102:12	201:7 202:16,17	215:6
107:16 121:10	124:17 125:1,15	215:21 219:17	relies 151:17
141:12 142:11,14	128:17 129:8 131:7	223:25 224:1,1,3	<b>rely</b> 156:2 211:12
224:15 248:4,7	131:14 132:15	226:23 241:13	<b>remain</b> 37:17
<b>recess</b> 41:22 99:10	134:13 138:5,22,23	<b>refers</b> 28:20 73:12	remains 7:8 218:1
147:13 186:23	140:13,15,22	reflect 202:4	remember 102:7
239:17 240:4	143:21 147:4,7	reflected 12:5	102:10 247:21
248:13	151:22 153:25	reflectivity 55:1,2	removably 76:18
reciprocate 36:25	155:23 158:20	regarding 241:1,25	116:13
37:3	162:21 165:17	regardless 204:11	<b>removal</b> 26:4,5
reciprocating	168:11 169:2 176:7	registered 1:21	28:2 41:7 45:20
36:10,13	195:10 212:18,25	250:4	46:23 47:3,4 49:1
<b>recognize</b> 6:9 122:7	215:23,24 218:2	reinvent 168:2	49:13,21 55:8
171:2 187:8 226:4	227:25 228:9 236:6	<b>related</b> 95:22,24	56:18,18 58:22
recollection 40:10	236:21,23 237:9	96:12 98:8 101:21	59:7,10,19 60:5
72:10	245:15,16,17	102:18,20 103:10	63:11,19,20,23
<b>record</b> 4:15 5:15,20	referenced 88:18	164:18 167:15	67:10 68:1,2,22,23
6:3 13:1 17:21 21:6	101:24 102:24	177:8 187:14 213:2	68:23 69:13,14
21:9,10 23:14	125:23 198:1	<b>relates</b> 73:5 94:13	70:1 75:14,16 76:2
99:14 108:15	204:12 219:21	113:12 122:22	76:4 77:12 86:22
121:25 123:5	references 122:13	relating 65:20	89:15 111:13
149:24 151:7	135:18 204:4 211:6	134:10	112:25 113:3 114:3
155:12 166:6,8,9	215:2 216:25	relation 52:12	121:17 123:25
166:11,13 167:19	217:13 218:3	164:23,24	133:7,10,13,16
167:22 174:22,24	222:12 224:6,23	relative 250:13	134:10 135:10
174:25 175:1	226:13 228:17,21	relatively 145:8	159:20,21,25 163:2
178:23 179:5,15,23	231:14,22 232:3,16	164:25	163:15,17,20,25

			-
165:15,15 168:14	141:5 167:1 179:21	representation	result 49:5 196:21
168:25 187:24	206:23 207:4,8,9	136:11 200:15	<b>return</b> 41:23
188:9 193:11,13,19	207:10 210:6	representative 23:5	167:23
194:1,6,11,13,13	236:10	96:18	returning 99:11
195:1,2 197:2	removes 73:22	representing 88:23	<b>reveal</b> 18:14
198:8 200:13,19	removing 22:25	175:7,18,20	<b>review</b> 1:12 3:6
201:13,16 204:15	25:18 38:21 39:4	requested 175:23	4:12 7:14 8:9,13
207:8 208:7,10	39:24 40:7 42:12	require 28:2 38:15	9:11 19:24 60:14
210:13 216:17	43:9,17 47:10,22	38:16 59:10 121:19	73:2 92:8,10,15
219:2 220:6,7	49:7 50:5 51:12,17	158:14	93:12 94:3,23 97:6
235:17 236:1 238:1	52:7 53:25 54:16	required 6:16 19:5	107:9,12 108:15,21
238:10 246:7,7,10	55:17 57:9,22	38:19 113:4 139:18	167:9 248:18 250:1
removals 74:21	61:20 62:18 63:24	143:20 146:7 189:8	250:8
114:25 158:4	64:6 70:20 71:20	requirement	reviewed 19:23
161:15,16 169:9	74:3,18 75:2,9,10	146:19 160:15	20:4,5,5 60:10
188:18 189:9	77:18,23 108:12	requirements	72:12 74:12 92:12
227:23,24 235:16	113:18 115:19	84:21 139:15 140:6	93:18 94:6,7 95:1,3
235:17	125:13 132:18	140:9	96:14 100:24 101:4
<b>remove</b> 22:22 24:5	133:21 135:2 144:8	requiring 205:17	101:13,14 107:14
24:17 25:1,7,22,25	146:10 199:24	researched 221:18	109:1,1 121:14
26:10 27:10 34:23	205:18 207:14,16	resemblance	123:1 224:11 226:6
35:23,25 38:9	207:21 209:3 212:4	114:19 206:5	228:18 248:3
39:15,25 40:11	219:2 228:7 233:1	reservoir 115:21	reviewing 92:21
42:25 47:18 49:4	237:11 238:3	127:15 140:17	229:17 230:5
49:16 50:25 52:20	rendered 21:7	192:2 227:18	reworking 99:22
52:21 53:22 56:3	177:24	230:15,16 244:23	<b>right</b> 21:9 22:7,18
56:21 57:3,14	<b>repeat</b> 31:4,7	<b>resolve</b> 176:5	25:16 65:22 73:21
58:11 61:15 63:5	report 11:18 12:1	181:18	75:22 76:13 77:15
63:15,17 65:4,6	18:17 120:13 250:8	respect 27:22	84:25 87:8 88:9
66:18 67:12 68:18	reported 1:21	respectfully 7:4	89:19 90:16 101:2
70:4,6,10 77:6 82:2	<b>reporter</b> 1:21 3:5	23:20	106:15 108:1 109:4
124:15 138:2	5:23 6:1,4 17:5	respond 102:6	114:22 116:11
146:13 160:21	174:21 175:12,15	103:25 107:23	119:10 122:5,12
197:4 204:1 206:10	175:17 176:15,17	<b>response</b> 103:16	131:12 132:14
207:15 209:15,23	182:18 183:4	205:5	146:23 149:14
235:18 236:8 238:6	219:11 249:1 250:5	responses 92:5	152:14 153:21
238:15 246:12,15	reporter's 3:6	<b>restate</b> 13:9 15:2	161:7,10 162:4,5,6
<b>removed</b> 7:22 9:12	250:1	19:20 44:24	162:7 175:18,23
24:10 45:17 49:14	<b>repower</b> 156:21	restricting 217:23	179:10 182:1,21,23
58:19 62:21 74:19	represent 18:20	restriping 71:1	183:5 185:23
93:25 112:4 119:15			193:23 198:14
		1	1

202:9 209:21	44:21 45:20 50:11	40:12 41:3 58:23	98:1 104:5 124:25
210:16 215:4 216:1	52:8 58:23 59:5,7	59:5 60:5 61:21	125:5 130:12
223:10 224:6 225:7	59:10,11,12,15,19	63:6 64:7,8,21	131:22 134:15
225:21 248:8,16	60:5 61:22 62:21	68:19 69:8 70:12	138:20 142:9 149:2
rigidity 30:14	62:22 63:6,10 64:7	77:7 82:3 125:14	149:4,5 150:11,21
road 27:2 28:2	64:21,24 65:4	206:11,23,24 207:5	154:8,13 162:13
49:23 50:6 71:3,10	66:19 67:14,17	207:5,10,11,16,20	169:7,14,15,18
191:5 215:5	68:19,23 70:12,14	207:25,25 208:3,8	173:22,24 174:17
roads 22:23 29:3	70:22 71:20 75:2	208:14,22 209:16	196:10 197:1
32:20 34:6 43:1	77:6,24 82:3	209:20 210:22	198:21 199:20
44:12 45:5,18	124:16 125:14	211:1 219:2 220:7	200:10 202:15,19
49:13 56:4,22 57:4	132:22 144:8 158:6	227:24	203:7,8 204:14
57:14,19 58:13	197:2 204:1 206:11	<b>runways</b> 23:2 29:4	208:3 213:25
61:16 62:18 70:25	206:23,24 207:4,7	29:13,14 34:6,23	215:20,22 220:12
132:21 209:2	207:10,16,17,21	40:1 41:4 43:1	221:2 222:8 223:21
roadway 63:16	208:6,7,10 209:15	44:12 45:6,18 50:6	231:12 233:25
67:2 243:1,18	209:17,19,23 210:5	54:17 56:4 57:18	244:12
roadways 67:15	210:13 212:5 219:3	58:2,3,13 59:17	says 6:21 21:14
70:22 124:15 144:9	220:7 227:24 233:2	61:22 62:19 63:2	22:5,7,20 38:18
208:25	235:17 236:9	64:25 67:14 70:22	42:21 43:4,5,22
robust 28:10 67:2	237:11,21 238:1,3	73:7,25 75:3 78:5	56:21 57:1,1 71:18
203:21	<b>rule</b> 176:1	113:13 124:16	74:2 75:8 76:10
<b>rock</b> 183:23,24	<b>rulings</b> 182:3	132:21 144:9	77:21 86:24 88:4,6
<b>roman</b> 6:14	<b>run</b> 26:6,21,22	206:14 208:25	88:8 90:12 97:10
room 35:7 240:15	35:25 37:20 38:10	212:6 233:3	109:9 111:18
244:16,22	38:13 54:2 69:8	S	120:18 128:11
<b>root</b> 101:12	85:5 90:24 97:23	s 3:8 187:7	132:16 146:14,17
<b>rotating</b> 160:13	98:12,22 130:7	safe 57:11	147:19 153:24
<b>rotation</b> 160:25	139:22 143:3,23	<b>safer</b> 187:19 189:1	164:11,12,16
rotational 54:3	146:8 157:14	245:11	172:12 174:2,3
roughening 78:4	158:16 161:23	safety 244:17	176:2 199:23
roughly 136:20	173:25 205:22,24	sat 92:9 161:8	236:24
192:7	205:25 206:1	saved 178:4	scale 137:3,4
<b>rpm</b> 37:15 244:1	209:12 235:24	saw 68:7 96:5,6	139:10 237:13,17
246:18	236:2 238:2 243:24	233:16	<b>schrunk</b> 187:6
<b>rpr</b> 1:21 249:18	243:25 246:18	saying 5:14 17:22	188:14 191:17
250:25	<b>running</b> 176:20	18:18 26:14 36:15	193:10,20 194:2,3
<b>rubber</b> 23:1 34:23	237:18	37:4 39:15 57:17	194:7,15,18 195:18
34:25 35:1,3 38:22	<b>runs</b> 157:6 204:11	65:15,25 72:10	196:17 197:7,15
39:5,15,24,25 40:7	<b>runway</b> 23:1 34:25	73:11,14 87:25	198:7 201:3 202:8
41:3,7 42:22 43:5	38:22 39:5,24,25	90:7 95:20 96:8	215:20 216:21
		20.1 23.20 20.0	

217:4 218:22 219:4	seeing 248:7	184:10,14,14,16,18	230:19,23,25
219:22 222:12,17	seen 40:9 194:24	185:2,5,8,10,15,18	238:17
244:9,13	select 210:10 238:5	185:18,22,25 186:5	simplest 229:8
<b>scope</b> 21:6 23:7,18	selecting 128:17	186:9,11,14,19	<b>simply</b> 24:21 69:16
24:2,18 32:23	self 113:25 115:23	245:4,6,8	71:15 76:5 85:23
33:13 59:3 83:10	132:3 242:22,25	<b>shut</b> 237:9	125:8 126:15
85:16 89:1 164:9	sell 13:14 14:2,5	<b>sic</b> 61:11,12 123:5	127:11 132:13
166:3 167:15 176:2	55:8 173:22	144:5 218:2	145:20 236:15
176:3 177:23 180:7	selling 13:24	side 105:23 175:19	244:4
180:10 189:25	163:24 167:14	181:17 187:17	<b>single</b> 17:23 83:1,4
206:18 216:4,7	sense 18:25 223:10	191:17	<b>sir</b> 4:13
219:19 220:16	243:16	sides 182:10	site 127:13 192:11
221:21 222:22	sentence 22:11	sideways 192:14,16	sitting 175:21
224:25 225:10,18	48:2,4,5 56:25	194:8,14 201:25	situation 12:22
228:15 230:8 231:4	108:5 155:12	sign 152:12	38:11
232:18 233:6	174:10 209:12	signatory 11:1	situations 11:12
234:15 235:1	separately 29:21	signature 7:5	12:3
<b>scott</b> 1:12 4:2,16	186:18	249:16 250:23	<b>size</b> 38:23 54:2
7:5 21:19 176:23	<b>service</b> 127:18	signed 10:18 12:7	79:23 80:18,24
<b>scratch</b> 136:2	set 161:6 168:1	12:16,18 16:15	81:1,3 83:12 84:4
156:18	seven 159:7,21	152:5,12 153:6	136:19,20,21,25
seal 173:9,10 249:8	<b>shape</b> 177:10	241:11	137:1,5 159:21
<b>second</b> 6:12 56:25	<b>shoes</b> 199:16	<b>signee</b> 171:6	160:5 189:13,14
108:4 164:8 166:7	<b>shoot</b> 165:9	significantly	sizes 52:13 79:15
174:19,23 182:15	<b>shorter</b> 244:15	237:22	79:16,17 159:19
246:17	<b>show</b> 6:8 20:19	<b>similar</b> 114:18	<b>skid</b> 59:1
section 7:3 29:18	22:15 102:13 122:5	124:11 125:2	<b>skill</b> 8:18 9:17
39:21 54:13 55:3	130:23 155:1	136:21 162:20	15:19 26:25 30:13
61:9 229:10 238:8	<b>showed</b> 130:18	177:22 178:19	32:19 33:15,17
238:25	131:4	184:12 185:17,18	34:15 40:4 44:9,14
<b>see</b> 22:9 39:14 42:4	shower 66:6	211:15 212:17	44:19 45:3,15
47:6 57:1 71:24	showing 226:1	219:3 233:9,23	51:18 58:6 59:20
72:5 74:4 76:10,15	<b>shown</b> 121:19	234:1,5,12 235:19	59:23 60:7 62:23
76:17 96:14 110:6	123:10 130:22	236:16 239:1	63:15 65:18 66:10
111:21 123:14,21	shows 98:20 220:25	245:17	66:17 67:5 68:9,13
133:6 136:11 146:3	237:13	similarities 62:4	71:9,22 73:10 74:5
164:10 174:9	shrink 244:20	163:4 193:16,17	74:25 75:24 77:5
179:14,15 181:1	<b>shroud</b> 53:2 171:7	similarity 102:5	77:10,19,25 83:16
236:22 238:19	171:13,14,18,22,23	203:18 227:11	83:17 84:3 85:7
243:9	172:3,7,12 173:4,9	simple 27:5 80:14	86:21 88:11 89:22
	183:12,14,16	84:17 85:3,4 136:5	91:2 98:3,5,10

100 1 4 1 10 21	1 40 40	150 00 1 51 00	150 5 100 10
109:16 110:21	<b>smaller</b> 169:10	158:22 164:23	159:5 188:18
112:8,10,14,17,22	smart 136:1	193:1 204:5 230:6	190:12 191:12
114:21 115:13	smith 2:3	sound 48:16	193:1 200:19 202:6
116:17,23 117:11	soft 35:1	sounded 64:3	219:17 235:16
117:17,20 118:12	<b>softer</b> 50:15 54:15	sounds 180:4 182:4	237:25
118:16 119:19,25	67:21 158:14	source 123:10	specification 39:25
120:11 124:13	204:21	127:12 143:13	128:11 153:24
125:12 130:13	<b>sold</b> 78:15 164:6	242:21	154:1 200:1 206:12
133:1,25 134:6	166:1 212:8	southern 8:3	208:6 247:21
135:14,17,20 136:1	<b>solely</b> 12:19 91:16	<b>space</b> 187:19 188:4	specifications 40:6
138:1,20,24 143:8	199:6	189:1,2 192:19	41:2 191:12 208:4
144:6,20 145:16	solicits 178:12	sparring 154:14	specifics 101:7,8
146:4 147:6 149:20	<b>solids</b> 42:12	speak 195:11	111:22,23
150:13,20 151:4	solutions 1:18	speaking 34:14	specked 79:4
153:4,4 164:19	solve 125:13	78:7 125:22 131:20	<b>specs</b> 40:9
168:5,24 169:7,19	192:21	137:25 164:25	<b>speed</b> 54:3 84:14
191:9 195:23	somebody 12:9	168:10,23 231:20	137:23 160:25
197:13 199:16,17	29:9 31:18 33:17	<b>spec</b> 53:10,11,12,21	<b>spills</b> 155:10
199:17,21 200:11	33:22 34:1 44:14	207:8 208:8	<b>split</b> 30:3
203:15 204:14	62:10,23 84:3	<b>specific</b> 35:2 38:8	<b>spoke</b> 60:6 205:8
205:14 208:12,17	88:10 89:21 117:8	38:15 42:14 53:12	sporting 85:15
209:8,15,22 210:9	117:20 119:25	61:6 66:23 68:25	<b>spot</b> 160:11,12
213:25 214:4,8,11	135:25 155:22	81:3 82:10,19 96:9	161:8
214:19 216:23	164:19 168:4	103:3,15 104:18	spray 53:9
228:20 231:13,18	183:16,23 191:15	120:19 134:3	sprayed 53:8
231:21 232:2 237:5	202:19 208:11	159:10,14 167:3	sprays 142:12
238:4,12 244:6,24	209:14 214:4,9,11	176:14 178:11	<b>spread</b> 24:8 41:15
245:14 246:1	227:8 232:21	184:17,25 185:22	67:20
skills 7:19	235:15 238:7 242:8	185:24 191:13	square 26:15,16
skimming 97:7	244:12	197:19 198:1	40:10 123:14 125:1
<b>skin</b> 165:11	somebody's 227:19	202:10 214:23,24	stainless 79:12
slavin 2:10	somewhat 247:5	215:14,17 219:6	stand 216:20,22
slight 62:5	sorry 6:2 11:23	221:9 234:8 248:4	238:9
<b>sloan</b> 226:24	58:18 99:23 175:2	specifically 19:17	standard 189:12
227:25 228:8	181:22,23 205:18	20:6 24:25 46:23	<b>standards</b> 18:12,16
<b>slope</b> 41:12	240:1	47:3 55:21 57:14	standpoint 167:25
<b>sloped</b> 14:14 42:11	sort 25:25 27:9	57:17 59:18 67:25	168:2 203:14
61:2 230:15	36:3 45:18 48:11	69:14,25 76:3	stands 65:16 135:8
<b>small</b> 14:2 157:7,17	48:13 49:24 60:1	77:16 79:2 102:6	135:9
169:17 187:17	64:23 65:3 78:1,21	111:23 131:13	<b>starjet</b> 113:18
212:25	84:2 93:12 146:7	135:15 156:15	114:18 115:3

233:22 235:19	stenographic	63:18,23,24,25	subsequent 100:3
245:17,23,24	250:10	66:24 67:2,10,25	substance 24:8
start 18:18 30:2	stenographically	68:1 69:13 75:13	54:10 67:19 75:11
54:5 57:3 67:6	250:7	75:16 76:2 77:12	substances 108:13
111:16 118:3 136:2	<b>step</b> 12:9 49:16	89:15 111:13	substituting 145:20
174:8 212:24	<b>stick</b> 5:11	112:25 113:3 114:3	<b>substrate</b> 48:17,20
224:17 228:8,10,21	<b>stipe</b> 246:7	121:17 123:25	49:4,24 50:1 51:5
237:11	<b>stop</b> 51:4,6,6	133:7,10 134:10	59:12 63:21 160:22
<b>started</b> 66:25 108:6	stopping 41:18	135:10 163:25	161:3,6
113:10 162:23	straight 124:6	165:14 236:1	substrates 59:13
212:8,16 233:14	169:5 189:12,15	stripejet 113:23	<b>success</b> 139:1
starting 109:8	235:22	114:18 115:3	155:24 232:4,8
113:16 115:16	straightforward	233:23 245:24,24	238:14
123:9 156:18 167:5	135:23 136:6	striper 55:14	successful 238:20
200:2 212:7	171:11	<b>stripes</b> 25:5 28:6	successfully 232:10
starts 76:16 115:18	strategy 30:7	47:10 52:7 54:17	suction 105:19
state 1:22 23:9	street 1:19 25:10	55:9 61:3 67:15	suctioning 171:25
38:25 43:13 58:3	25:23 63:24,25	69:15 70:1,4,6 71:1	<b>sued</b> 167:9
62:13 77:9 81:15	84:18 127:3,8	73:20,22,22 76:4	sufficient 30:15
108:18 110:19	140:23 141:17,24	78:3,20 158:5	70:4
111:23 148:5,6,23	142:3,6,19 183:20	162:11	suggests 211:21
164:2 186:4 221:16	183:22 184:2,6,11	striping 49:24	suitable 123:10
249:3,19 250:2,5	184:19 185:1,13	188:8	134:21 135:2
stated 81:19 111:18	186:8,16 193:16	stronger 199:3	<b>suite</b> 1:19
111:21 120:6 121:5	200:24 202:21	structure 22:21	<b>summary</b> 22:5,7
121:6 197:25 198:3	246:5,12	24:4 32:11 61:14	61:10 74:1,8,17
200:18 248:3	streets 127:6,7	structures 34:9	115:17
statement 16:24	strength 87:20	209:1	<b>sump</b> 86:24 109:9
64:3 88:18 90:15	111:2,6,20 119:3	<b>stuck</b> 47:19 51:1	127:14 189:14
95:5 120:23 150:21	119:11	<b>stuff</b> 193:9 214:1	192:2,20 227:17
164:11 207:18	<b>strike</b> 28:1 77:18	<b>subject</b> 6:15 31:1	230:15 244:23
231:8	248:7	166:21 177:14	<b>sun</b> 73:12
statements 6:22,24	striking 114:19	178:25 179:3,6,17	supplied 123:9
6:25 7:1	206:4	subjective 64:12	<b>supply</b> 127:12
states 1:1 6:14 7:11	stripe 27:2,15	229:6,15 247:6	131:25 242:20
98:20 106:11 123:6	38:14,15 46:23	<b>submittal</b> 12:15,18	<b>support</b> 20:10,11
235:9	47:3,4,24 48:17,19	submitted 7:5	28:23 30:15 73:14
stating 150:23	49:1,9,10,13,16,21	12:25 21:11 27:17	194:10 210:18
stays 48:23 49:17	50:2,14 51:12,13	33:15 106:13 112:7	supporting 19:14
<b>steel</b> 59:9,24 65:1	54:1,25 55:13	177:2 198:15	supposed 40:11
79:12	56:18 58:18 63:16		51:4,4,6,6
1	1	1	

sure 23:12 36:8	55:5 57:23 58:11	130:7,9,10 131:18	242:11,15,23 243:3
41:10 64:2 77:2	58:17,25 59:6,14	131:22,23 132:2,17	243:6,19,19,25
81:25 134:16	59:17 60:1,6,8	132:18 133:8,9,10	244:8,13 245:1
147:12 149:12	66:19 67:20 73:7	135:25 136:12,18	systems 46:13
166:12 167:19	73:12 113:1,14	139:20,21 140:4	75:18,20 124:1
171:5 183:4,24	132:21,22 133:22	141:10,13,14,15,15	134:3 135:10,12,24
186:10 191:24	197:3,4	142:2,2 143:12,13	158:7 162:14 168:5
194:22 208:1 214:3	surfwaves 100:21	143:18,22 144:3,4	201:7,9 212:8
217:9 219:7 220:23	107:16	144:4,4,17,23,25	213:7 223:18 233:9
223:19 225:12	suspension 42:13	145:7,17 146:9,11	237:1 238:16 239:7
240:3,9,11 241:6	sweeper 84:18	147:2,9 148:23	239:10 242:19
246:25	127:3 142:6 183:20	151:13,14 154:11	t
surely 210:25	183:22 184:2,19	154:11,25 155:1	t 3:1,8
211:25 220:24	185:13 186:8	156:23 157:9,16	tackle 210:22
surf 100:20 107:13	200:25 202:21	161:21 162:8,9,10	take 35:24 41:3,17
107:16	sweepers 140:23	162:12,15,17,20,24	41:19 49:8 52:19
<b>surface</b> 19:8,13,13	141:17,24 142:19	163:9 168:12,18,19	67:2 72:22 85:7
20:8,9,10,13 24:9	184:11	169:8,10,10 180:14	99:6 104:17 120:1
24:13 28:20,22,25	sweeping 184:6	185:1,1,7,10,13,14	129:25 132:16
29:9,15,19,23	185:1	185:18,19 186:8,8	134:21 146:16
30:12,14,14 41:15	sworn 4:4 249:7	188:5,10 189:5,20	147:2,11 158:13
43:9,17 44:17 45:3	system 43:8 46:14	194:3 195:1 196:21	161:18 162:11
48:11,12,16 49:20	46:20 57:12 69:13	199:23 200:19	165:8 169:9 176:17
50:1 53:4,9 54:10	69:14,16,16,18,19	201:14,16,18,20	183:2 186:21 188:4
55:13 57:9,23	69:25 70:13 71:5	202:15 204:25	190:13 193:14
58:19 59:12,23	71:11,15,15,18	205:19 206:2,4	203:21 204:10
64:12,23 73:15	72:11,13 74:2,13	207:13,14,16	206:7,13,20 239:14
74:3 75:9,12	75:8,17,19,20 76:2	208:20 209:3,6,24	239:15 240:13
108:13 115:20	76:3,4,5 77:12	211:15 212:12,17	243:16 246:6
132:19 134:8	78:12,15 79:19	212:20,21 213:14	taken 1:14 41:22
147:25 160:14	83:4,8 84:17 85:22	213:18 222:4,6,7,9	54:4 99:10 147:13
185:4 199:24	85:22 86:7,7 87:12	222:19 223:23	178:13 186:23
209:20	95:14,17 97:23	224:10,12,17,18	239:17 240:4
surfaces 19:15	105:14,14,20	228:7,19,23 229:4	248:13
20:13 24:12,12 29:2 32:21,25,25	111:13,16,19 112:25 113:17,22	229:5,6,7,7,8,8,12 229:14,18,21 230:7	takes 25:7 113:2
33:1,19,23 34:5,11	112:23 115:17,22	230:11,18,19,23	153:23 187:19
34:15,20 39:14	114.3 115.19,20	230.11,18,19,23	talk 29:8 34:1,11
44:13,17,21 45:7	124:20 125:21	232:1 233:22	35:14 119:2 130:19
45:11,12,14,19,24	124.20 125.21	236:13 238:22	133:8 156:13
45:25 46:2 47:21	129:2,5,10,13,14	241:25 242:2,2,3,6	159:19 201:4 208:7
43.23 40.2 47.21	127.2,3,10,13,14	241.23 242.2,2,3,0	

## [talked - term]

talked 32:11 64:25	223:11 233:19,21	17:23 19:16 23:16	technically 34:14
89:25 93:21 95:9	talks 69:3 73:4	27:18,21,25 28:19	37:24 64:6 125:22
95:10 96:18 116:2	113:15 117:8	30:21 31:9,16,19	131:20 137:25
136:14 158:11	tampa 1:18,20	31:25 32:3,5 33:16	146:24 153:24
160:6 204:18 210:3	25:14,21 250:16	34:13 40:20,25	168:10,23 188:20
233:18 236:17	tank 46:11 79:19	45:4 48:3 50:4	191:21 207:3,17,23
237:6 245:4	87:2 105:19 106:1	51:11 53:5,16,18	208:2 229:20
talking 27:8,10	106:1 108:14	56:2 58:7 59:2	231:20
28:24 29:1,3 30:11	109:12 127:14	64:18 78:16 81:20	technicals 119:14
33:3,4,8,9,9 34:6	129:2 226:21,21	83:18 87:3 91:6,15	138:23 156:13
36:18 39:6 47:23	227:13,18 242:23	91:19 93:23,24	167:11 230:5
48:7,11,12,20	244:22	94:21 97:1,5,6	technique 172:7
51:25 52:2,7,9 55:6	tanks 127:11,14,17	112:4,6,7 119:5,6,7	techniques 47:9
55:21,22 56:6,11	128:2,18 131:25	119:8,14 120:12,16	156:20
56:12,17 58:1,2	132:1,2 168:20	121:21 122:1	technologies 4:11
59:19,21 60:4	189:14	124:14 130:15	13:19 15:9 89:11
63:10,19,20 67:10	tape 39:16 42:22	131:12 133:21	95:13 114:17
67:11,12,25 68:1,6	43:6 50:12 54:24	134:4,7 135:11,13	144:11 164:7 166:1
68:24 70:10,21	54:24 68:23	138:19 140:23	246:9
73:23,25 74:18	task 71:9	141:6,8 142:17	technology 14:25
75:22,23 76:1	tasked 77:11 85:14	146:21,22 147:1	22:25 23:3 27:19
77:17 83:19 84:1	taught 147:22	148:18,24 149:15	33:4 42:7 44:3
87:5,6,11 88:9,25	150:15 151:5,6	149:17 151:16	61:20,23 68:11
89:17 94:1,1	<b>taxis</b> 43:1 44:12	152:3,16,18,22	91:2 114:16,18
100:13 104:19	45:6	153:25 155:21	115:8 156:16
108:7 109:3 111:14	taxiway 57:15	159:4 163:14	171:11,12 172:23
112:11 113:16	<b>taxiways</b> 23:2 50:6	166:22 167:2,4,10	198:15,16,17 203:3
114:20 115:24	57:18 58:13 61:22	167:11,14,25 168:2	220:8 221:6,8,10
117:25 118:6	62:19	168:3 172:20 173:2	232:11 233:15
130:14 132:7,8,20	teach 148:13	173:3 177:2,6,8,13	243:12,17
133:12,14,15 134:9	<b>teaches</b> 147:23	177:15 178:9,13,15	tell 87:7 103:25
135:6 138:3 144:1	166:16	178:24 179:20	104:2 113:9 137:2
150:5,14 157:11	teaching 151:10	180:12,23 188:17	137:4 138:11
158:5 159:9,15,20	teachings 243:3,4	188:19,20 191:11	139:10 165:3
161:15 162:21	244:9 245:1	195:3 197:21	temporary 28:11
166:13 168:24	<b>team</b> 12:16	203:14,16 204:3	54:22,24
173:5,16 174:6	<b>technical</b> 7:13,17	205:2,4,4 206:22	<b>ten</b> 159:7
181:13 188:17	8:16 9:5 10:8,14,22	208:9,12 211:11	tense 224:9
203:15 205:10	11:9,18,21,24	214:12,18 223:13	term 27:13 30:14
207:15 208:13,24	12:18,24 15:23,24	227:9 229:20 230:4	53:5 54:7,9 59:2
213:1 215:9 218:16	16:10,17,25 17:9	241:7,19 246:22	62:21 65:19 66:11
1			

67:5 86:6 91:25	228:20 240:17,18	221:17 222:14,19	213:11 217:23
92:4,8 98:8,15	thank 6:1 182:8,21	225:1,19 227:11	221:11,13,18
100:13,16 102:10	182:23,24,25	229:5,10 233:12,13	224:14,17 234:2
103:10 104:14	theories 152:15	234:10 237:12,14	244:7,25 245:12
108:10,11 120:25	thereof 250:10	242:4 243:23 247:3	times 49:19 93:19
145:13 148:1	thermal 28:12	thinks 223:7	107:14 139:15
153:11,22 154:10	38:14 39:16 42:22	<b>third</b> 216:10	155:13 200:3 242:4
174:16 202:5	43:6 47:24 50:12	thought 224:6	247:19
206:22	51:13 54:1,22	248:1	title 7:3
terminology	68:23 78:20	thousand 142:8,9	<b>titled</b> 69:13 76:2
207:24	<b>thick</b> 35:4	142:13 247:8	today 6:17 7:7,21
terms 19:4 29:21	thicknesses 34:24	thousandth 84:2,6	67:8 92:9 93:19
30:5 45:2 54:20	thing 15:10 71:4	84:7,12 85:1 159:7	102:9 103:20
91:1 96:10 102:5	74:13,15 230:18	159:7,8,16,16,22	107:10,15,20 109:3
163:20 179:19	240:24 244:20	159:22,24	122:4 163:2 182:15
180:12,17 181:9,10	245:23	<b>three</b> 57:2 60:6	240:18 243:24
199:8 218:5	things 15:11 41:8	135:18 159:16	tool 174:1
<b>testified</b> 4:5 15:24	52:4 54:4 58:12	216:9 239:10	top 22:19,19 42:2
59:22 62:20 69:21	60:25 61:3 67:15	throttle 24:21,22	43:14 48:18 69:12
95:20 104:16 106:9	73:19 75:5 78:12	26:9,9,15 37:10,10	105:2 243:9
106:15,18 108:20	89:15 101:4 121:18	37:24 52:4,4 85:10	tractor 19:14 20:11
112:2 128:16	134:9 142:4 144:8	85:16 161:24 162:8	22:21 24:4 28:23
140:15 141:5	144:14 160:25	162:9 244:2 246:14	42:25 57:3 61:15
149:10 157:22	222:14 229:11	<b>throttled</b> 35:10,11	73:15 105:3,6,9,23
166:25 167:7	230:2 232:9	37:7 243:21	105:25 106:2
172:10,22 177:4	think 8:1 9:7 33:22	throttling 26:22,22	113:25 114:1 124:6
179:21 196:23	38:17 40:14 42:19	35:14 37:13 85:19	124:6 125:24,25
197:6 214:21 220:4	46:22,25 54:23	243:24 244:4	128:3 129:1 144:22
222:25 228:18	62:21 72:19 75:4	thursday 1:15	168:20 169:3,5,16
testify 102:9	88:11 92:12 95:9	tight 243:5 245:21	169:17,21,23,25
testifying 90:3	97:20 101:23	tilt 227:19	187:18,20 188:3
112:1 116:1	102:22,22 118:6	tiltable 226:14,18	192:15,16 193:21
testimonial 9:13	120:5,8 137:3,3	227:4,14,16 230:15	194:4,8,9,14 195:6
11:3 13:2 27:23	150:19 155:12	tilts 226:18,19	201:24,25 206:3
29:24 165:2	158:2 169:20	227:18	210:18 212:22
testimony 10:16	170:19 173:21	time 1:16 9:4 38:10	213:8,12 235:20,25
17:20 29:1 56:10	176:20 181:3 182:7	48:20 49:20 58:4	243:4,6,10 245:15
73:13 94:5,15	182:15 185:6	81:15 103:23	245:19,24,25
154:20 162:23	186:10,11 199:11	105:21 114:5 148:6	trade 11:10
170:10 176:2,4	199:12,14 214:5	160:14 206:19	trademark 1:1
195:8 203:9 217:20	220:22,25 221:1,16	209:11 212:11	

## [traditional - unit]

traditional 47:8	245:18,24	<b>turn</b> 21:24 37:15	235:9
traffic 27:2	<b>trucks</b> 25:22	226:25	<b>uh</b> 81:18 136:16
trailer 76:10,16,18	160:20 190:9,12	<b>turning</b> 169:4,6	236:7
76:19,20 116:12,14	191:10 206:7 211:2	245:18	<b>ultimately</b> 160:11
116:15 128:6,7	213:6 227:22,24	<b>two</b> 16:14,21 57:2	231:25
191:14	true 6:23,25 7:8	104:8 106:5 122:3	<b>ultra</b> 26:7 54:18
trailering 144:22	28:15 30:3 52:11	122:3 127:14	115:22,24 116:3,6
144:25	74:4 80:24 86:9	151:19 217:25	116:18,19,24 117:1
transcript 182:16	88:12 90:8 98:23	240:15 242:23	117:16 159:17
182:17 250:9	117:13 145:23	245:21 248:10	164:1,12,15
transverely 188:4	160:18 182:9	<b>type</b> 10:1,2,3 22:21	<b>unaware</b> 233:7
transverse 192:18	194:22 250:9	24:4 31:12 42:15	234:18
193:20 244:22	truly 8:23	49:23 50:13 61:15	<b>unbiased</b> 7:20 8:20
transversely	try 5:17 159:6	78:24 79:2 112:20	underlying 160:22
187:15 192:3	202:2 222:2	130:4 141:9 158:7	166:15 176:8
194:23	trying 15:21 16:1	159:13 172:3	<b>underneath</b> 49:11
travels 105:22	27:13 54:23 65:6	176:14 178:6	49:21 108:3
tread 178:7	73:18 81:2 82:11	184:10,14,16	undersigned 249:5
treading 177:12	82:18 95:10,11	187:18,23 188:3	understand 6:15
trial 1:1 100:22	112:21,24 125:13	235:18	7:11 15:2,21 16:1
truck 20:10,11	137:25 138:2	<b>types</b> 14:19 24:9,12	28:15 66:11 67:5
28:23 81:5 105:23	158:12 159:2,3,5	25:3,4,6,7,13,15	69:18 75:1 86:6,22
124:5,6 126:1,1	162:9,10 169:8	28:6 29:12 41:9,13	87:21 90:14 91:20
127:17,18,24 128:1	173:22 177:7,8	51:15 55:24 70:16	101:5 112:8,9
128:4,6,8,11,12,15	178:9,15 179:18,22	160:24 172:8	134:16 148:17
143:9 157:8 162:24	179:24 180:17,22	typical 26:3 60:7	154:10 179:11,25
163:1 168:19 169:5	181:1 192:22 220:3	63:2,11 64:25 65:2	182:2 197:5 200:12
169:23 187:19	222:2,3,6 243:14	118:10 173:18	205:15 223:22
188:3 189:6,7,12	<b>turf</b> 85:9 122:22,24	typically 36:9	understanding
189:15,23 190:15	134:24 137:7,13	38:12,23 39:9,23	6:19 18:16 43:20
191:1,6,16 192:9	139:8,12,24 140:7	40:5 48:23 49:17	64:15 93:7,9 182:4
192:10,14,23,25	144:10,23 155:21	53:11,12 60:5	184:10 221:4,12
193:3,21 194:9,10	157:6,24 161:19,20	63:12 66:14,16	understood 17:20
194:14,20 195:7	162:1,3,13,25	139:17 173:23	30:13 65:19 97:15
196:8 198:12	163:5,13 183:20,24	205:25 207:7 210:4	unfamiliar 241:18
210:18,25 212:21	184:3,7,10,19	210:5	unfulfilled 22:12
213:7,8 226:15,16	185:1,14 186:8,15	u	<b>unique</b> 172:12
226:17,18 227:4,10	193:15 200:24	<b>u</b> 187:7	<b>uniquely</b> 145:19
227:21 228:8,11	202:20 204:17	<b>u</b> 187.7 <b>u.s.</b> 7:3 14:11	<b>unit</b> 104:25 105:4
230:12 235:22	208:18,22 210:10	126:25 156:6	105:25 192:1,1
237:14,15 245:17	210:12 243:15	170:24 226:24	229:8 237:20

## [united - want]

<b>united</b> 1:1 123:6	229:9	201:23 206:8 209:6	version 227:9
235:8	<b>usually</b> 24:4 44:20	209:25 228:1	versus 4:11 18:24
unloading 244:18	53:10	235:24 243:8	100:20 107:16
unreasonably	<b>utility</b> 20:11 105:2	vacuumed 46:24	<b>vertical</b> 104:10
180:16	124:5 126:1 129:1	47:11 49:2,6	<b>viable</b> 229:5,6
unrelated 102:20	168:13,20 169:17	vacuuming 46:16	<b>vice</b> 5:1
102:22	187:18 193:21	61:3 171:20 209:5	<b>view</b> 137:2,4
upgraded 236:18	194:9 210:18 213:8	vacuums 111:8	138:12 242:17
upwards 70:3	213:12 235:20	121:5 189:10	violating 223:24
<b>use</b> 37:14,20,22	utilization 238:17	230:11	virtually 37:9
38:1,2,5 46:20 47:4	utilize 125:10,15	value 109:24,25	visual 136:10
47:7,16 49:11	129:10 131:24,24	179:15 205:21	<b>volume</b> 78:22
50:14 51:21 52:1	136:3 168:20 246:8	248:2	136:22
54:3 57:20 63:21	utilized 132:1,1	values 110:16	<b>vs</b> 1:7
65:4,8 66:21 67:21	172:23 195:20,21	120:12	vulcanize 59:15
67:22 68:2 69:6	196:7 205:20 213:9	<b>valve</b> 38:2	vulcanized 59:22
71:5 77:25 78:14	216:14 220:6	variables 189:13	62:21 63:6 64:7,21
78:16 83:17,18	utilizing 132:8	229:13 230:17	65:4 66:19 67:13
88:20 113:5 124:19	211:5 237:8	variations 158:16	67:17 70:12,22
127:16 129:2	V	159:4 161:2 202:1	75:2 77:6,24 82:3
130:10 132:9,10	<b>vacuum</b> 14:13	various 25:13,14	124:16 125:13
133:10,18 139:20	22:12 42:18,21	28:13 35:2,23	132:22 144:8 158:6
139:21 141:2,2	46:10,25 48:4,5	39:21 41:13 61:5	204:1 206:10 207:4
142:15 159:5,6	79:19,20 86:24,25	81:12 172:6 197:4	209:19,25 212:5
160:2 162:5,9,10	87:2,3,4,5,12,12,14	211:13	219:2 227:23 233:2
162:12 168:17	88:15,19 90:25	<b>vastly</b> 84:16	236:9
169:15,16 171:21	102:19 104:25,25	<b>vehicle</b> 19:14 20:2	vulcanizes 59:11
187:22 189:6,14	105:1,4,4,5,18,19	20:11 25:17 28:23	vulcanizing 59:11
200:14 204:16,19	105:25,25 106:1,22	30:15 73:14 127:6	W
204:20,25 206:3,3	108:3,11,12,14	127:7 169:17	<b>w</b> 2:9
206:3 210:12,14,21	109:6,9,10,12	187:17,18 194:12	wait 183:8
210:21 212:17	110:10,22 112:12	velocities 80:25	waiting 167:22
230:15 237:1 238:7	112:19 113:5	84:8 137:18 157:24	want 5:11 6:2
238:7,9 242:20	117:19,25 118:1,4	158:8 172:2 173:5	23:14 35:25 38:5
243:17 244:13	118:7,10,23 120:19	<b>velocity</b> 80:20	41:20 52:5,17 54:1
245:3,5 246:11	121:19 124:8	137:13,16 139:23	72:22 76:5 80:8,11
useable 242:24	127:22 128:2,19,22	158:1,2,11 159:14	81:4 82:17 85:20
<b>useful</b> 22:13 134:13	145:2,2 150:6	159:17,18	99:2 103:25 111:22
230:25	157:16,17 160:20	<b>verify</b> 241:2	134:16 135:21
uses 35:9 88:15,19	171:9,25 173:1,1	veritext 1:18	160:15 162:5,8,12
124:8 157:1 186:11	185:4 189:10 192:1		165:10 168:1

Veritext Legal Solutions

173:25 174:21	20:20 23:5,25	willfully 7:1	168:7,16 170:5
177:17 183:2,6,7	24:10 29:10 32:13	wise 42:14 210:15	172:6 173:7,21
202:2 203:21 206	5:1 41:25 46:19 54:8	witness 7:20 8:18	179:20 183:6,11
212:12 230:14	55:15 61:11 68:14	9:1,7,14 10:18 11:4	184:5 190:4,24
240:16 241:2,24	68:16 89:10 95:13	13:9 15:2,16 16:20	191:4,23,25 195:13
244:12 246:7 247	7:7 114:16 164:7 166:1	17:12,18 18:1,8	196:6 197:25
wanted 73:2 85:1	4 167:14 171:24	19:20 22:15 23:9	198:10,21 199:11
224:8,10,16 240:	25 172:23 173:19	24:3,19 26:3 27:12	202:25 203:11
243:16 246:6,6	175:20 176:25	29:6,25 30:7,18	204:8 206:17 207:7
wants 177:24	<b>way</b> 5:12,16,17	31:4,11,22 32:2,8	209:11 210:3 211:8
201:23,24,25	11:4,6 15:3 18:2	32:24 33:8,21	211:19,21 212:20
<b>washer</b> 84:18	20:5,12 26:16	34:19 35:8,17	213:4,6,21 216:16
water 22:24 33:5		36:18 37:20 38:25	217:7 218:12
37:2 38:3 42:13,2		39:11 41:6 42:10	219:12,14,20
42:24 47:5,13,16		43:4 44:5,16,24	220:15,17 221:22
48:8 50:11,22 51		45:22 46:8 50:10	225:1,11,19 228:4
61:19 66:6,20 71	:5 96:6 97:15 104:4	53:1,25 55:12 58:1	229:1 230:9 231:5
104:21 112:20	105:2,19 111:2	58:16 60:4 62:4,13	232:7,20 233:7
113:12,17 115:22		63:1 64:2,10 65:6	234:4,16,18 236:13
117:8 123:9,13,1	6 140:13 157:2	68:21 70:6 72:2,5	240:14,16,20
124:9 127:9,12,1	2 158:19 162:19	73:4 74:23 77:2	248:15 249:6,8
128:2,17 131:25,	25 165:4 174:1 177:10	78:3,24 79:9 80:3,6	<b>wl</b> 100:22
136:21 142:12	187:22 189:1 200:6	81:24 82:9,25	wondering 239:14
143:13 171:21	202:4 216:10 231:9	86:18 87:25 89:3	<b>wood</b> 175:6
172:25 173:16	237:15	94:6,16,19 96:5	work 89:23 141:3
183:21 189:13	ways 38:5 211:25	102:3 104:23	169:21 192:11
192:1,2,19,20,20		106:11 107:22	206:18 211:1
209:25 210:11	70:21 134:9 135:6	108:18 109:20	226:15 230:24
226:12,22 233:22		110:6,15,25 115:2	231:23 233:16
242:20 244:22	242:11	116:2 117:15	workable 190:14
245:7	<b>weight</b> 30:15	118:25 119:22	191:4,4,5,7,11
waterblast 171:1		120:5 121:2 130:6	192:7,8,24 229:7
230:11	166:13 190:3 203:4	131:17 133:5	238:15 242:25
waterblaster 24:2		135:20 136:25	worked 10:6
128:7 157:11 163		139:5 140:1,9	working 152:9
waterblasting 1:8		141:1,12 143:2,11	243:5
2:13 3:9 4:11,11	wide 80:8,10 82:17	144:25 146:3	works 11:5,6 46:13
9:20 13:5,7,10,14		150:19 154:3,24	230:11
13:18,19,25 14:1		156:1 158:10 163:4	world 71:7
14:18,21,25 15:9		163:24 164:10	worlds 245:22
19:17 20:3,7,15,1	16	165:3 166:4 167:5	

[worn - zero]

10.10	
worn 49:19	Z
wound 183:19	<b>zero</b> 37:9
wraps 182:15	
write 9:25 10:1	
31:11,12 43:23	
91:11	
<b>written</b> 33:11	
149:6	
wrong 157:23	
208:2 220:3 224:9	
wrote 10:7 93:14	
93:14,15,19 107:15	
109:13 152:24,25	
153:1,5 241:1,2,4	
241:11,23	
x	
<b>x</b> 3:1,8 6:14 159:6	
У	
yeah 22:9,9 29:6	
32:24 36:22 43:15	
49:7,16 52:17 57:7	
57:17 58:16 65:12	
72:24 76:9 79:11	
85:11 87:14 92:2	
100:9,9 106:21	
111:18 130:17	
140:11 146:10	
148:5 154:24 155:9	
157:21 165:6,7	
174:9,17 192:6	
197:12 216:1 217:9	
220:22 221:14	
222:15 234:4,4	
238:1 239:24 240:8	
241:15,17 243:24	
246:16	
vears 8:19 115:11	
211:14	
yield 19:2 231:25	
232:8 246:9	
L	

#### Federal Rules of Civil Procedure

#### Rule 30

(e) Review By the Witness; Changes.

(1) Review; Statement of Changes. On request by the deponent or a party before the deposition is completed, the deponent must be allowed 30 days after being notified by the officer that the transcript or recording is available in which:
(A) to review the transcript or recording; and
(B) if there are changes in form or substance, to sign a statement listing the changes and the reasons for making them.

(2) Changes Indicated in the Officer's Certificate. The officer must note in the certificate prescribed by Rule 30(f)(1) whether a review was requested and, if so, must attach any changes the deponent makes during the 30-day period.

DISCLAIMER: THE FOREGOING FEDERAL PROCEDURE RULES ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE ABOVE RULES ARE CURRENT AS OF SEPTEMBER 1, 2016. PLEASE REFER TO THE APPLICABLE FEDERAL RULES OF CIVIL PROCEDURE FOR UP-TO-DATE INFORMATION.

#### VERITEXT LEGAL SOLUTIONS COMPANY CERTIFICATE AND DISCLOSURE STATEMENT

Veritext Legal Solutions represents that the foregoing transcript is a true, correct and complete transcript of the colloquies, questions and answers as submitted by the court reporter. Veritext Legal Solutions further represents that the attached exhibits, if any, are true, correct and complete documents as submitted by the court reporter and/or attorneys in relation to this deposition and that the documents were processed in accordance with our litigation support and production standards.

Veritext Legal Solutions is committed to maintaining the confidentiality of client and witness information, in accordance with the regulations promulgated under the Health Insurance Portability and Accountability Act (HIPAA), as amended with respect to protected health information and the Gramm-Leach-Bliley Act, as amended, with respect to Personally Identifiable Information (PII). Physical transcripts and exhibits are managed under strict facility and personnel access controls. Electronic files of documents are stored in encrypted form and are transmitted in an encrypted fashion to authenticated parties who are permitted to access the material. Our data is hosted in a Tier 4 SSAE 16 certified facility.

Veritext Legal Solutions complies with all federal and State regulations with respect to the provision of court reporting services, and maintains its neutrality and independence regardless of relationship or the financial outcome of any litigation. Veritext requires adherence to the foregoing professional and ethical standards from all of its subcontractors in their independent contractor agreements.

Inquiries about Veritext Legal Solutions' confidentiality and security policies and practices should be directed to Veritext's Client Services Associates indicated on the cover of this document or at www.veritext.com.