

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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INTUITIVE SURGICAL, INC.,  
Petitioner,

v.

ETHICON LLC,  
Patent Owner.

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Case IPR2018-01247 (Patent 8,479,969 B2)  
Case IPR2018-01248 (Patent 8,479,969 B2)  
Case IPR2018-01254 (Patent 8,479,969 B2)

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Record of Oral Hearing  
Held: October 17, 2019

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Before JOSIAH C. COCKS, BENJAMIN D. M. WOOD, and  
MATTHEW S. MEYERS, *Administrative Patent Judges*.

Case IPR2018-01247 (Patent 8,479,969 B2)  
Case IPR2018-01248 (Patent 8,479,969 B2)  
Case IPR2018-01254 (Patent 8,479,969 B2)

APPEARANCES:

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The above-entitled matter came on for hearing on Thursday, October 17, 2019, commencing at 9:04 a.m., on the 9th Floor of USPTO Madison Building East, 600 Dulany Street, Alexandria, Virginia.

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P R O C E E D I N G S

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(Proceedings begin at 9:04 a.m.)

JUDGE WOOD: Good morning.

MR. DESAI: Good morning, Your Honor.

MR. DENNING: Good morning.

JUDGE WOOD: This is the oral argument for IPR2018-01247, IPR2018-01248, IPR2018-01254 and IPR2018-01703.

Will counsel for Petitioner please introduce themselves?

MR. DENNING: Good morning, Your Honors. My name is Roger Denning from Fish & Richardson on behalf of Petitioner, Intuitive Surgical. I have with me today my two partners, Steve Katz and Ryan O'Connor, who will also be arguing. And then I have Eming May (ph), the inhouse IP attorney from Intuitive Surgical.

JUDGE WOOD: All right. Thank you, Mr. Denning.

MR. DENNING: Thank you.

JUDGE WOOD: Will counsel for Patent Owner please introduce themselves?

MR. DESAI: Good morning, Your Honor. Anish Desai, from Weil Gotshal on behalf of Patent Owner. With me is Chris Pepe, who will be arguing as well, and Chris Marando.

JUDGE WOOD: All right. Thank you, Mr. Desai.

According to the hearing order, we will proceed

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1 first with IPR2018-01247, -01248, and -01254, which all involve the  
2 same patent.

3 Both sides will have 60 minutes. Petitioner  
4 proceeds first to discuss its case and may reserve rebuttal  
5 time to reply to Patent Owner's arguments. Patent Owner then  
6 proceeds with its case and may reserve rebuttal time to  
7 sur-reply to Petitioner's reply.

8 Following completion of the oral argument as to  
9 those cases, we will proceed with IPR2018-01703, following a  
10 short break, if the parties request it.

11 Before we begin, I believe Patent Owner has marked  
12 some demonstratives as confidential. I'd like to remind the  
13 parties that this is a public hearing. To the extent that  
14 confidential information is discussed, we will need counsel to  
15 be aware that it's public, and that any information that will  
16 be made public. And to the extent that counsel wishes to keep  
17 that information confidential, we will need to close the  
18 hearing for that information. So in other words, counsel  
19 needs to let the Panel know in advance of discussion of any  
20 confidential information.

21 MR. DESAI: Your Honor, I believe we've discussed  
22 this before the hearing, and there's not going to be any  
23 issue. We're okay. Both sides are okay with proceeding on  
24 the public record.

25 JUDGE WOOD: Okay. Thank you very much.

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1           With that said, Mr. Denning, you may proceed when  
2 you're ready.

3           MR. DENNING: Thank you, Your Honors.

4           I'd like to -- I think we're going to go about 40  
5 minutes and reserve 20 minutes for our rebuttal, if that's  
6 okay with Your Honors. We are connecting to our presentation  
7 right now.

8           So, Your Honors, I plan to address the first issue,  
9 maybe the threshold issue in the case, is as to whether the  
10 Certificate of Correction language, or the original language,  
11 or both should be subject to the Board's determination in this  
12 IPR. And then I'm going to turn it over to my colleagues, Mr.  
13 Katz and Mr. O'Connor, to argue the merits of each of those  
14 three IPRs, I think starting with Prisco, and then going to  
15 Giordano, and then going to Timm Anderson.

16           JUDGE WOOD: Mr. Denning, before you proceed  
17 further, pardon the interruption, but I would like to remind  
18 counsel that we have a judge -- Judge Meyers is remotely  
19 connected to the hearing. So for the benefit of Judge Meyers  
20 and the record, please identify all slides by slide number as  
21 you proceed.

22           JUDGE MEYERS: Thank you.

23           JUDGE WOOD: And you may proceed.

24           MR. DENNING: Thank you. We'll do so.

25           Good morning, Judge Meyers.

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1 JUDGE MEYERS: Good morning.

2 MR. DENNING: So Ethicon is trying the Board from  
3 considering the validity of Claim 24 of the '969 Patent in  
4 either its corrected or its original form. On the one hand,  
5 Ethicon argues that the Board can't consider the corrected  
6 claim language of Claim 24 because a District Court Judge in  
7 an Interlocutory Order found that the PTO never should have  
8 issued the Certificate of Correction in the first place.

9 JUDGE WOOD: Counsel, what was the basis for the  
10 District Circuit finding that?

11 MR. DENNING: So --

12 JUDGE WOOD: Why did they determine that?

13 MR. DENNING: So a little bit of history in that  
14 case. Judge Stark in the District of Delaware, in a Markman  
15 claim construction proceeding, looked at the original claim  
16 language, construed the original claim language. Ethicon had  
17 asked him to construe the claim language consistent with the  
18 Certificate of Correction for the same reasons that they  
19 argued to the Patent Owner, and Judge Stark declined to do  
20 that, and said, No, I'm going to construe it as distal, not  
21 proximal. And distal means distal; it doesn't mean proximal.  
22 And then he entered the claim construction order.

23 JUDGE MEYERS: And that was your position in the  
24 District Court at that time, correct?

25 MR. DENNING: That's correct. And --

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1 JUDGE MEYERS: And you, too, have flip-flopped also,  
2 correct?

3 MR. DENNING: That's not true, Your Honor. We have  
4 always maintained that the Certificate of Correction never  
5 should have issued in the Patent Office, and we believe that  
6 to this day; the Certificate of Correction never should have  
7 issued.

8 It did issue. It was in the claim language when we  
9 filed this IPR petition. So in our petitions, all three of  
10 them, we addressed both the corrected claim language and the  
11 original claim language because we knew that we didn't think  
12 the Certificate of Correction was appropriately entered. That  
13 said, it was in the record, and we felt we had to address it  
14 in the IPR petition, so we did. But we did it both ways.

15 And our argument really is Claim 24 of the '969  
16 Patent is invalid either way. It doesn't matter whether you  
17 consider the corrected or the original.

18 JUDGE MEYERS: Now, in your counterclaim, are you  
19 asserting that Claim 24 is indefinite?

20 MR. DENNING: In the --

21 JUDGE MEYERS: Without the Certificate of  
22 Correction?

23 MR. DENNING: I would want to concur with my  
24 colleagues, but I don't believe so. I'm not counsel in the  
25 District Court case. That case has been stayed pending an ITC

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1 investigation. So I'd want to confer on that, but I don't  
2 believe we're claiming it's indefinite in light of that.

3 JUDGE MEYERS: Okay.

4 MR. DENNING: I think we're taking the position that  
5 the original claim language as construed by Judge Stark to  
6 mean distal will apply in the District Court case.

7 But for exactly the reason I said, the Certificate  
8 of Correction had issued about five months before Intuitive  
9 filed this IPR petition or these three IPR petitions, so,  
10 naturally, Intuitive felt we had to address the Certificate of  
11 Correction. In fact, it's still in the file history today.

12 The District Court order, as I said, related only to  
13 claim construction. It's not a final judgment; it's an  
14 Interlocutory Order. And, in fact, Judge Stark's order on the  
15 Certificate of Correction was not necessary for his  
16 determination of the claim construction. He gave his claim  
17 construction order in December, I believe, of 2018, and then  
18 only in February of 2019 issued the order on the Certificate  
19 of Correction. It was not necessary -- his order on the  
20 Certificate of Correction was not necessary even to his claim  
21 construction order, which certainly is an Interlocutory Order,  
22 certainly not a final judgment.

23 So on the one hand, Ethicon is trying to tell the  
24 Board, well, you shouldn't consider the corrected language.  
25 At the same time, Ethicon is telling the Board that you can't

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1 consider the original claim language either because they say  
2 our petition focused too much on the corrected language and  
3 not enough on the original claim language, but, in fact, the  
4 petition argued both.

5 This is a one-word change in the claim, distal to  
6 proximal, and in each of the petitions, you can see, we've  
7 spent one paragraph discussing how the prior art meets the  
8 distal limitation, and we spent one paragraph arguing how the  
9 prior art meets the proximal limitation, amongst the  
10 discussion of all the other limitations of Claim 24 of the  
11 '969 Patent. They were both treated side by side, one  
12 paragraph right after the other in the original petition. We  
13 focused on it in a fulsome manner in our reply brief, but  
14 building only on the arguments that were in the original  
15 petition. No new prior art, no new arguments; simply  
16 expanding on the arguments that we had made previously.

17 Okay. So if we could go to Slide 3, Mr. O'Connor.

18 So this is just a recap of what I said on the  
19 history relating to the Certificate of Correction. It took  
20 effect six months -- five months and some weeks after the IPR  
21 -- before the IPR petitions were filed, that's why we  
22 addressed the corrected language in the IPR petition, even  
23 though we believed at that time and put in a footnote in the  
24 petition here, and we're arguing in the District Court that we  
25 didn't think the certificate was properly granted. But we

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1 still argued the language because that was in the file wrapper  
2 at the time, and it still is, by the way.

3 Ethicon has filed nothing with the Patent Office to  
4 correct the Certificate of Correction and say it's not right.  
5 They've filed nothing with the PTAB, with the Board, asking  
6 you to invalidate the Certificate of Correction. It's still  
7 there. From a public notice perspective, anybody pulling up  
8 the '969 Patent, pulling up the file wrapper is going to see  
9 the Certificate of Correction in effect in the '969  
10 prosecution history. So that's why we think it's proper for  
11 the Board to consider the corrected language of the '969  
12 Patent.

13 There's no collateral estoppel here in their  
14 sur-reply brief. Ethicon argued that collateral estoppel  
15 should prevent us from considering the corrected language of  
16 the claim. That's not true for two reasons.

17 And Mr. O'Connor, if you can go to the next slide.  
18 One more after that, please.

19 Collateral estoppel requires a valid and final  
20 judgment, Step 2 in this case, cited by Ethicon. It also  
21 requires that the determination be essential to the judgment.  
22 Here, there certainly was no final judgment in the District  
23 Court. At best, it's a claim construction order, an  
24 interlocutory claim construction order, not a final judgment.  
25 That case is stayed. It never really got beyond the claim

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1 construction stage.

2           And as I mentioned a moment ago, the Certificate of  
3 Correction Order is not essential to the judgment. It's not  
4 even essential to the claim construction order. Judge Stark  
5 entered that months before he entered his Order on the  
6 Certificate of Correction.

7           Ethicon may argue that they waived their right to  
8 appeal Judge Stark's Order on the Certificate of Correction.  
9 That's of no moment here whatsoever. First of all, they wait  
10 until after Petitioner filed the reply brief to file a Notice  
11 of Waiver of Appeal in the District Court. But second of all,  
12 that's meaningless. It doesn't change the fact that Judge  
13 Stark's order is not a final judgment or that the order is --  
14 was not necessary for his claim construction order.

15           Secondly, moving to the original claim language, the  
16 uncorrected claim language, Ethicon has filed a motion to  
17 strike and said that the reply brief went beyond the arguments  
18 made in the original petitions, and, therefore, the Board  
19 shouldn't consider the original claim language of the -- Claim  
20 24 of the '969 Patent either. In essence, they're trying to  
21 stop the Board from ever considering the validity of the  
22 original claim language of Claim 24. But, in fact, the IPR  
23 petition addressed both, as I said, side by side in the  
24 petitions, addressed both arguments under the distal and the  
25 proximal.

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1           The reply brief simply expanded on those arguments,  
2 and I think the operative case here is the Ericsson v  
3 Intellectual Ventures case, Federal Circuit case. I can give  
4 you the cite. It's 901 F.3d 1374, and in that case, the  
5 Federal Circuit reversed a Board's decision not to consider  
6 arguments in the reply brief when the Federal Circuit found  
7 the Petitioner had raised the arguments in the petition and  
8 that there were significant intervening events that made those  
9 issues more relevant in the reply, and, therefore, justified  
10 the more attention that they got in the reply.

11           I'd submit that certainly is the case here.  
12 Petitioner's response focused almost entirely on the original  
13 claim language because that came after Judge Stark's order.  
14 And so they focused entirely on -- almost entirely on the  
15 original claim language, so that naturally was the issue that  
16 we responded to in our reply brief.

17           As the Federal Circuit found in the Ericsson case,  
18 Ericsson cites, No new evidence that merely expands on a  
19 previously argued rationale. And that's exactly what  
20 Intuitive Surgical did in our reply brief. So that should not  
21 be stricken and the Court -- the Board should be considering  
22 both the reply brief and the original petition.

23           Unless Your Honors have any additional questions for  
24 me, I'm going to turn it over to Mr. Katz to address the  
25 Prisco petition. Thank you.

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1 JUDGE WOOD: Thank you.

2 MR. DENNING: Thank you.

3 JUDGE MEYERS: Thank you.

4 MR. KATZ: All right. So I'm just going to take a  
5 few minutes to address the Prisco petition.

6 In this threshold matter, everything you just heard  
7 actually doesn't apply to Prisco. Patent Owner has not  
8 disputed that Prisco discloses the element to which the  
9 Certificate of Correction applies. So that only applies  
10 actually to Anderson, Timm, and Giordano.

11 So Prisco, you know, we submit, is an anticipating  
12 reference, and Patent Owner focuses in on the wrist and says,  
13 first of all, that Prisco doesn't disclose the wrist, that  
14 Prisco says don't use the wrist, and that the combination of  
15 Prisco and the incorporated Cooper reference somehow only  
16 applies to one of Prisco's embodiments.

17 Now, none of those arguments hold any water.

18 So first of all, Prisco does disclose the wrist.  
19 There's no question about it. Figure 2B, for example, we show  
20 here on Slide 7, it shows the wrist. This is a straight  
21 cannula embodiment. But there's no statement in Prisco saying  
22 this is limited to that. And we point to Column 16 where it  
23 says you can include a moveable wrist mechanism. And it gives  
24 the reason why; because it allows an end effector orientation  
25 to be changed without changing shaft position. That statement

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1 is a generic statement, and it applies to both Prisco  
2 embodiments, what we call the push-pull and the pull-pull  
3 embodiments.

4 One way we know that actually is that the quote we  
5 have on the screen here about wrist mechanism is paragraph --  
6 Column 16, Line 38, starting Line 38. The previous paragraph  
7 is discussing Figure 7D and relates to the push-pull  
8 embodiment. And so this statement, far from being limited to  
9 the pull-pull embodiment, is following a description of the  
10 push-pull embodiment. So it is a generic statement. It  
11 applies to both.

12 We also point out that, you know, the Patent  
13 disclosed both; you can have straight and flexible shafts.  
14 And the key here is that the wrist can be used with a flexible  
15 shaft. In fact, most of Prisco is about a flexible shaft.

16 We turn to the next slide, Slide 8. You know,  
17 Patent Owner focuses on the non-wrist embodiment. Says, Oh,  
18 here's a non-wrist embodiment. It says, Don't use a wrist in  
19 the non-wrist embodiment. Well, sure, there are disclosures  
20 of embodiments that don't use a wrist. None of that is  
21 relevant here because Prisco, as shown in Slide 8 and as we  
22 point to in our briefs, clearly shows that a wrist is  
23 optional.

24 And then Patent Owner focuses on the end is not  
25 shown language. Well, why is it not shown? Because it's

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1 incorporated by Cooper. Prisco is saying, We're incorporating  
2 the wrist from Cooper; we don't need to repeat it all here,  
3 that's why we're not showing it. We've already incorporated  
4 it. It would be redundant to show all the information.

5 So it's clearly optional and if it's optional, it's  
6 part of the Prisco disclosure.

7 Go to Slide 9. So on Slide 9, this is now  
8 information from Cooper. And so, here, Patent Owner says,  
9 Well, wait a minute, Cooper needs to bend sharply because you  
10 need to have these five vertebrae. And the simple answer to  
11 that is they're focusing on one embodiment, and Cooper has  
12 many different embodiments. And so all of their arguments  
13 about this bend sharply are, again, irrelevant because they  
14 relate to one particular embodiment and not all of them.

15 So let's see what Cooper says. As we say -- fill on  
16 the top here in Column 4, Line 62, it says, you know, The  
17 wrist member comprises at least three vertebrae. So at least  
18 three. You don't need more. You don't need five. Three is  
19 fine. We then cite Column 22, which shows that when you have  
20 a coupling between two disc segments, the rotation is  
21 typically 45 degrees. So, again, they focus on 180, but,  
22 here, it's 45 in one direction, then if you bend in the other,  
23 you add another 45, so maybe that's a total of 90 at most.

24 And, finally, in Column 24, Line 40 to 47 here on  
25 Slide 9, you know, we cite that Cooper also says you can have

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1 more than five segments. So the idea that Cooper is limited  
2 to a five-segment product that must rotate 180 degrees just  
3 isn't true.

4 Now, in the Figure 19, what we show here, because  
5 this figure does show five segments, but we've highlighted in  
6 yellow three segments, and that will be consistent with the at  
7 least three vertebrae embodiment. And, here, you see, you can  
8 build a device that only can pivot 45 degrees; you know, not a  
9 sharp bend to 180. It's only 45 in pitch, and then the other  
10 two vertebrae would have been 45 in the yaw direction. So  
11 even though there's three vertebrae, it only bends 45 in any  
12 one direction.

13 Okay. So Cooper, you know, clearly does not require  
14 this bend sharply, which they focus on, and, frankly, even if  
15 it did, there's really no evidence that the embodiments can't  
16 handle the sharp bend.

17 So if you go to the next figure -- excuse me -- next  
18 slide, which is Slide 10, here, we show the pull-pull  
19 embodiment and a push-pull embodiment. And the reason why  
20 Figure 8A is demonstrating a shaft with a pull-pull embodiment  
21 is -- you'll see there's 802A and 802B. Those are tension  
22 rods that do connect to the gripper, and it says that those  
23 are used in a pull-pull embodiment, although the Figure 8A  
24 also has just generic information that would be applicable to  
25 both embodiments, right, which is the concept, that you have a

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1 number of tubes, and you can put different things down the  
2 tubes. But in 8A, specifically, because they show the two  
3 cables, that's a pull-pull embodiment.

4 Now, what's interesting is the push-pull embodiment.  
5 They focus on the stainless steel .032 inch OD, which stands  
6 for outer diameter. And they say, Oh, well, you know, that  
7 stainless steel rod can't bend. And, of course, we will  
8 demonstrate in a moment that it certainly can bend. They  
9 disclose it bending.

10 But more importantly here is Patent Owner doesn't  
11 dispute that the pull-pull embodiment can go through the  
12 wrist. And what's interesting here is the pull-pull  
13 embodiment uses not one but two of these tube components that  
14 are each .032 inches and that bends in two directions. And so  
15 you've got the two tubes there that bend pitch to the side,  
16 but they also have to bend up and down. And so the idea that  
17 Prisco disclosing that these two tubes can bend up and down,  
18 even though they're one on top of each other, but yet a single  
19 rod that's .032 inches can't bend, just has no support.

20 Prisco itself clearly is teaching that you have  
21 these bendable components. Now, are they stiff? Yes. And  
22 we'll get to that in a minute. They're stiff and bendable.

23 Prisco at length talks about how it's very important  
24 to add stiffening members to make sure that the various  
25 control components don't kink, but that stiffening member

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1 doesn't preclude using the wrist embodiments, which Prisco  
2 says are optional.

3         Go to the next slide, Slide 11. There's a lot of  
4 text here, but I think what's important about here, which is  
5 Column 14, Lines 50 to 57 and also at Column 60, Lines 44 to  
6 53, is that Prisco here discloses the importance of  
7 stiffening, and this is in the context of the push-pull  
8 embodiment. So what we're showing here on Column 14, Line  
9 about 50, it says the instrument shaft remains flexible, this  
10 is in the push-pull embodiment, so it remains flexible, and  
11 that it does have a design stiffness. And it says  
12 specifically down below, what you see at Line 55, that they  
13 are talking about that you do want to have stiffening along  
14 the -- to isolate the push-pull drive lift. So there's no  
15 question, this is discussing the push-pull embodiment.

16         If we go to Slide 11 -- excuse me -- Slide 12, which  
17 we now bring the text from 16 -- Column 16 forward, and here  
18 it says, you know, it should be understood that the principles  
19 describe EG ways of stiffening. So what's it talking about?  
20 Let's just be sure we knew what the principles are.

21         These are the stiffening principles. How do we  
22 stiffen this device? And the stiffening principles apply both  
23 to the push-pull embodiment and the pull-pull. Right? It's  
24 not just one. These are both embodiments.

25         And then it says specifically that it should also be

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1 understood that these principles, again the stiffening  
2 principles, may be adapted to instrument aspects that include  
3 a movable wrist mechanism. And so even though you do need a  
4 quite a bit of stiffness according to Prisco, Prisco teaches  
5 stiffness doesn't mean you don't have a wrist. This line is  
6 confirming that even though you're adding stiffness purposely,  
7 you can still add the wrist. So the idea that the wrist can  
8 only work with one and not the other embodiment has no basis,  
9 and Prisco is clearly teaching otherwise.

10 In fact, our expert says that you can make this  
11 combination of the wrist with both embodiments. Their expert  
12 says, No, it won't work. But here's the key. Our expert is  
13 relying on the teaching of Prisco. Right? Prisco is presumed  
14 enabling. Their claims call out, you know, the fact that you  
15 can have these embodiments. And so it's presumed enabling.  
16 And so their expert didn't come forth with any evidence. It's  
17 just this conclusory statement, Oh, it wouldn't work. Well,  
18 Prisco says it works, so they cannot rely on just a mere  
19 conclusory statement.

20 So that's the push-pull embodiment. Right? I think  
21 we've clearly shown that it applies to both. And I think Your  
22 Honors, also, in the Institution decision also cited other  
23 passages where Prisco keeps saying wrist is optional, wrist is  
24 optional. I mean, there's a number of statements to that  
25 effect. So the idea that Prisco suggests that you only use a

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1 wrist with one embodiment, there is no basis for that.

2 Nowhere does Prisco say the wrist would only be used in one of  
3 these two type of embodiments.

4 So there's also -- we have the pull-pull  
5 embodiments. So we go to Slide 13. This is an alternate read  
6 because they don't dispute that Cooper works with a pull-pull  
7 embodiment, and, here, the disputed language is operable  
8 communication. And the key here is that the pull-pull  
9 embodiment has a shaft gear, which rotates the shaft, and the  
10 shaft is connected to the jaws. And the claims say you need  
11 to have a gear that controls a selectively movable component.

12 Well, the jaws are selectively movable components.  
13 Why are they selectively movable? Because they move, open and  
14 close relative to each other. That's what makes them  
15 selectively movable.

16 And we say the roll gear does control the jaws  
17 because they control the roll movement of the jaws. Patent  
18 Owner's response is, But they don't open and close the jaws.  
19 And our answer to that is, the claim doesn't require that you  
20 control opening and closing the selectively movable component.  
21 It just says you have to control the selectively movable  
22 component, and one of the controls is absolutely to roll the  
23 jaws.

24 And so, alternatively, we do say that in addition to  
25 the push-pull embodiment, which undeniably has a gear, the

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1 pull-pull embodiment also has the required gear because of the  
2 roll feature that is applied to the jaws for jaws selectively  
3 movable.

4 If Your Honors have no questions, we're going to  
5 turn to Giordano.

6 JUDGE COCKS: Counsel, having just heard everything  
7 you said, what specifically is the limitation in the claim  
8 that you were directing us to?

9 MR. KATZ: The limitation for the gear segment?

10 JUDGE COCKS: Yes.

11 MR. KATZ: It's Claim 24, and it says at least one  
12 gear driven portion that is an operable communication with  
13 said at least one selectively movable component portion of  
14 said end effector.

15 So that's part of it. So it has to be an operable  
16 communication. And then later on, as -- there's a control  
17 element. So at the very end of the claim, it says that the  
18 one -- at least one gear driven portion to apply at least one  
19 controlled motion to said selectively movable component.

20 And so what we're saying is the control motion being  
21 applied to the jaws is the roll motion of the jaws. It  
22 doesn't have to be an open and close control motion. Roll is  
23 a control motion of the jaws.

24 JUDGE COCKS: Thank you.

25 MR. KATZ: So with that, we're going to turn it over

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1 to our colleague, Ryan O'Connor, who is going to address the  
2 Giordano.

3 MR. O'CONNOR: Good morning, Your Honors.

4 So as an initial matter, we want to point out that  
5 Patent Owner does not dispute that the proposed combinations  
6 of Giordano, and Wallace, and Anderson, and Timm disclose  
7 every limitation of the claims, part of the corrected claim  
8 language. And then as explained in the Petitions and as Mr.  
9 Denning mentioned earlier, both combinations also disclose  
10 every limitation of the claims under the uncorrected claim  
11 language. So I'll address the Giordano-Wallace combination  
12 and Mr. Katz will address the Anderson-Timm combination.

13 For the Giordano-Wallace combination, there's only  
14 one disputed limitation. That's the limitation in the  
15 uncorrected claim language that requires a tool mounting  
16 portion operably coupled to a distal end of the proximal spine  
17 portion. Importantly, however, the Patent Owner admits that  
18 Giordano's articulation control, that's Element 16, is  
19 operably coupled to the distal end of the proximal spine  
20 portion. And as explained on Page 27 of the Petition, we  
21 explained that the controls of the manually operated surgical  
22 tool are removed and replaced by Wallace's proximal housing  
23 and driven elements.

24 So like all of the other controls of a manually  
25 operated surgical stapler, the -- Giordano's articulation

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1 control in the primary combination is also a moot to the tool  
2 mounting portion of Wallace's surgical tool, so that it could  
3 be driven by Wallace's driven elements and also to be remotely  
4 controlled.

5 Ignoring the various motivations to combine that are  
6 identified in the Petition and by Dr. Knodel, Patent Owner  
7 argues that Wallace would have deterred a person of skill in  
8 the art from making the proposed combination of Giordano and  
9 Wallace. For example, Patent Owner argues that Wallace  
10 teaches remote control, but the proposed combination features  
11 a manually operated control knob on the shaft.

12 If I could have the next slide, Slide 15. As I just  
13 explained, in the primary combination, the articulation  
14 control is moved into the proximal housing of Wallace's  
15 surgical tool. It does not remain on the instrument shaft.

16 Patent Owner also argues that Wallace would have  
17 deterred a person of ordinary skill in the art from making the  
18 proposed combination because Wallace's alleged objective is to  
19 provide two axis articulation, but the proposed combination  
20 only provides one. However, in the primary combination,  
21 wherein the Shelton stapler is modified to include Giordano's  
22 articulation control and then the resulting device is modified  
23 to be used with Wallace's surgical instrument system, the  
24 manual device already includes an articulation mechanism, and,  
25 therefore, it does not use Wallace's articulation joints.

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1 Instead, a person of skill in the art would have been  
2 motivated to make the combination to obtain the benefits of  
3 robotic assisted surgery, as disclosed in Wallace.

4 And Slide 16. Instead, it's only the alternative  
5 combination of Shelton and Wallace that uses Wallace's  
6 articulation control. But Wallace doesn't deter -- wouldn't  
7 have deterred a person of skill in the art from making this  
8 combination either for a couple of reasons. The first is that  
9 Wallace is not limited to two axis articulation. As shown in  
10 the slide, the specification of Wallace specifically discloses  
11 that the articulation mechanism could include two rods, and  
12 when the two rods are in the same plane, they'll only produce  
13 one axis of articulation. And then further on in  
14 specification, Wallace confirms that second direction of  
15 articulation is optional.

16 And, finally, on Slide 17, Dr. Knodel, at his  
17 deposition, confirmed that there's nothing in Wallace that  
18 requires two axis articulation.

19 If there's no questions, I'll turn it back to Mr.  
20 Katz.

21 JUDGE WOOD: Thank you.

22 MR. O'CONNOR: Thank you.

23 JUDGE MEYERS: Thank you.

24 MR. KATZ: Okay. So, now, I'm just going to address  
25 the Timm-Anderson combination. And, again, as Mr. O'Connor

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1 mentioned, the Patent Owner actually doesn't dispute that  
2 Timm-Anderson has all the elements under the uncorrected  
3 language. The only -- excuse me -- under the corrected  
4 language. The only question is whether it has the components  
5 under the uncorrected language.

6 And, here, as we show in Slide 18, there's really no  
7 dispute on the operation of Timm, which by the way is a Patent  
8 Owner patent -- prior art patent. And their expert has  
9 admitted, you know, how it operates. I mean, there is no  
10 dispute. What you have is a passive articulation joint with a  
11 locking mechanism that has an actuation thing that is pulled,  
12 and that causes the ball to expand and lock the joint.  
13 There's no dispute about that. And so, in fact, their expert  
14 has said that the control line to that locking mechanism  
15 operably couples to the articulation joint, which only makes  
16 sense.

17 And so what we're showing here are the figures from  
18 Anderson and from Timm on the left-hand side that shows the  
19 locking ball joint, which is on the distal end of the proximal  
20 spine. And then we show how that's combined with Anderson,  
21 which is on the right side of this diagram on Slide 18, which  
22 shows the proximal end of the proximal spine portion.

23 So in the combination the Anderson tool mounting  
24 portion is connected to this spine, and the spine would lead  
25 to this passive articulation joint, which provides the

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1 coupling.

2           And if we go to Slide 19, here, we just have the  
3 testimony from Dr. Awatar, which is Patent Owner's expert,  
4 where we asked him, Is the cable that controls the joint, is  
5 it operably coupled to the joint? He says, Yes, I would say  
6 the cable in this case is operably coupled to the articulation  
7 joint. And the key is this cable comes from the tool mounting  
8 portion, right? Things that you drive this tool from the tool  
9 mounting portion, that's where you get all the robotic inputs.  
10 And so given that the cable comes from the tool mounting  
11 portion, it clearly shows there's operable coupling to the  
12 distal end of that proximal spine portion.

13           If we go to the next slide, 20, it's just a portion  
14 of the claim. There's an argument in Patent Owner's briefing  
15 that somehow the claim requires an active articulation  
16 structure, as opposed to passive. The claim says nothing  
17 about requiring active articulation. It doesn't require any  
18 affirmative control of the articulation joint. What it says  
19 is that you need to have an articulation joint. And so, you  
20 know, that covers active and passive, and there's really no  
21 basis for them trying to read in an active articulation joint  
22 into the product.

23           They also make the argument that while you wouldn't  
24 ever, like, combine a passive articulation joint with a robot,  
25 we cite in our reply brief one of the Patent Owner's own

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1 patent. I think it's the Griggs (ph) Patent. It's one of the  
2 last exhibits we include, which has, as an example -- oh, by  
3 the way, you can -- here's a passive articulation joint that  
4 can be used either in manual or robotic structures. And so  
5 clearly, there's -- it's not as though -- they want to create  
6 this illusion that in the industry, nobody would ever think of  
7 putting a passive articulation joint on a robot, and there's  
8 really just no evidence to that effect.

9 We'll go to the next slide, Slide 21. We provide a  
10 motivation to combine extensively and have a whole bunch of  
11 cites on Slide 21, but we just highlight some small particular  
12 things here. In Anderson, it specifically mentions stapler  
13 probes and -- as one option for the Anderson robot. And  
14 Anderson cites a whole bunch of potential end effectors, and  
15 they keep using the word, probes. I mean, it's unclear why  
16 they're using the word probe, but everything is called a  
17 probe. You'll see we have a gripper probe, a stapler probe.  
18 And, here, Anderson is teaching that you can have, as one end  
19 effector, a stapler probe.

20 Now, is that a disclosure specifically of an  
21 endocutter, as Patent Owner keeps repeating? No. It says  
22 staple. But stapler is a generic umbrella that includes  
23 endocutters, linear staplers, staplers and cutters, staplers  
24 that don't cut. It's a generic statement. So -- but Anderson  
25 says, Oh, by the way, our robot would be great with staplers.

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1 It certainly suggests that Timm, which is undoubtedly a  
2 stapler, one might want to combine those two.

3 And then they say, Well, why would you want to use  
4 Timm? And while Timm says you have articulation, you offer us  
5 dynamic clamping, you can actually control Timm using rotary  
6 motion. And so the fit, as we point out in our briefing, it's  
7 quite a nice fit.

8 Timm uses rotary motion to drive its device;  
9 Anderson provides rotary motion. They talk at length about,  
10 you know, the complexity of making the combination. You know,  
11 Timm has some complexity to it; Anderson has some complexity  
12 to it. That complexity is irrelevant.

13 The key issue is that Timm uses rotary drive motions  
14 to drive its device; Anderson provides the rotary drive  
15 motions. And so the Anderson and Timm working together,  
16 rotary to rotary, makes the connection. And so we say one of  
17 skill in the art would clearly have both the motivation and a  
18 reasonable expectation of success that if I have a robot that  
19 generates rotary motions, and I have a device that accepts  
20 rotary motions, they will work together.

21 Another point that they make --

22 JUDGE COCKS: Counsel?

23 MR. KATZ: Yes?

24 JUDGE COCKS: Before you go on, one question. You  
25 had highlighted the word, probes, there and then questioned

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1 why they called it that. Why did you call out the word, probes?

2 What's the issue there?

3 MR. KATZ: Oh, well, the issue is that it doesn't  
4 just say stapler. It says stapler probe. And Patent Owner  
5 may say, Oh, well, what is a stapler probe as opposed to a  
6 stapler? And what I'm saying is they call all of their end  
7 effectors probes. It's like -- it's another way of saying  
8 stapler end effector. And I think there was some testimony by  
9 Dr. Knodel, saying, Yeah, if they're all just probes, they're  
10 probing things. We can get a cite for that if you'd like, but  
11 I think they ask him about that.

12 So I'm just simply pointing out that you won't find  
13 the word probe in the '969 Patent. And so what I'm saying is  
14 that's really a red herring; that the key is it is disclosing  
15 a stapler that is an end effector. In all their end  
16 effectors, they just call it probes. That's all I'm pointing  
17 out there.

18 If we go to Slide 22. Thank you, Ryan.

19 So one key issue here is that Timm actually  
20 discloses that you can adjust gear ratios. And so they --  
21 Patent Owner makes a big point saying, Oh, well, no one would  
22 know how to generate the necessary forces. And we talked  
23 about this at the last hearing with similar patents. And the  
24 answer is, of course, one with skill in the art knows how to  
25 generate the forces. One thing, Timm says it. Timm says you

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1 can adjust the gears to get the mechanical advantage you need.

2 And so one with skill in the art looking to Anderson saying,

3 Okay, I'm having rotary drive, and then I use the gears in

4 Timm to generate the forces I need.

5 And so Patent Owner says, Oh, well, how would

6 someone know how to do the mechanical advantage? Well, Timm

7 says people know how to do that.

8 And I'll point out that in the '969 Patent, you

9 know, they don't provide gear ratios. They say one with skill  
10 in the art knows how to size gears.

11 And so they're counting an inconsistent position.

12 They're holding the prior art to a much higher standard than

13 their own Patent delivers because their own Patent doesn't

14 teach one of skill in the art the gear ratios needed to drive

15 their endocutter. It says one of skill in the art would know

16 how to do that, and, likewise, that would apply equally to the  
17 prior art.

18 I think we'd like to save the rest of our time for

19 rebuttal. That's all I have for -- yeah.

20 JUDGE WOOD: All right. Thank you, Mr. Katz. You  
21 will have 23 minutes for rebuttal.

22 MR. KATZ: Thank you.

23 MR. DESAI: All right.

24 JUDGE WOOD: Are you ready to begin, Mr. Desai? Do  
25 you wish to reserve surrebuttal time?

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1 MR. DESAI: Maybe ten minutes is fine.

2 JUDGE WOOD: You may begin when you're ready.

3 MR. DESAI: Thank you, Your Honors. Good morning.

4 I just -- I'll quickly start with the Certificate of

5 Correction issue.

6 We understood Petitioner's reply as arguing that the

7 PTAB -- the Board should evaluate only the corrected claim.

8 That's how we understood their reply, and that you should not

9 address the original claim of the '969 Patent. That's

10 obviously wrong. The District Court has validated the

11 Certificate. The original claim exists. The Certificate is

12 not coming back. The Patent Owner has waived its appeal of

13 that issue, so that would obviously be wrong.

14 But, now, I think what we heard from Petitioner is

15 saying that you should consider the original claim, and you

16 should consider the corrected claim. And I suppose that's

17 fine with us, if you want to consider the corrected claim. I

18 don't really understand why there's a reason to do that. But

19 -- so I don't -- I'm not sure that there's actually a dispute

20 here anymore.

21 But as far as whether the Petitions in the -01247 and

22 the -01254 case adequately establish --

23 JUDGE COCKS: (indiscernible)

24 MR. DESAI: Sorry?

25 JUDGE COCKS: So you say that's not a final court

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1 decision --

2 MR. DESAI: Yeah, I think in our --

3 JUDGE COCKS: -- in your waiver of the appeal?

4 MR. DESAI: That's our view. I mean, we cited the  
5 restatement about how that's procedurally definite. I mean,  
6 that decision is not going to be changed.

7 And then it was also pointed out the judicial  
8 estoppel point, that it's -- that doesn't require a final  
9 judgment for Patent Owner to prevent Petitioner from  
10 flip-flopping positions and asking the Board to only address  
11 the corrected claim. I mean, I think judicial estoppel here  
12 is clear, and that would prevent Petitioner from saying, Oh,  
13 well, you know what, we changed our minds. We only want to  
14 deal with the corrected claim.

15 But, again, I think as far as whether the Petitions  
16 adequately addressed the prior art, disclosing the original  
17 claim language, well, our position is it does not, and I'll  
18 get into that as I got through the Petitions. And that's just  
19 an issue of whether the Petition, what they wrote, adequately  
20 described how the prior art discloses the limitation.

21 JUDGE COCKS: When you say the original claim  
22 language, you mean the uncorrected language?

23 MR. DESAI: Yeah.

24 JUDGE COCKS: Okay.

25 MR. DESAI: Yeah.

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1           JUDGE COCKS: And so maybe you can ground me just a  
2 little bit of what you said. What is your position? Should  
3 it -- are you raising an objection to this Panel treating the  
4 Certificate of Correction as valid?

5           MR. DESAI: In our view, the Certificate of  
6 Correction has been cancelled.

7           JUDGE COCKS: Okay.

8           MR. DESAI: And so we don't understand why the Panel  
9 would address the corrected claim. It doesn't exist anymore.

10          JUDGE MEYERS: Could you provide a cite to an  
11 interlocutory order being a valid final judgment.

12          MR. DESAI: I think we'd have to potentially look  
13 that up, and I think, in our sur-reply, we explained how  
14 collateral estoppel applies here because it's procedurally  
15 definite, that decision. That's our view.

16          JUDGE MEYERS: If you could maybe provide us with a  
17 case, that might be helpful.

18          MR. DESAI: Okay. We can do that, Your Honor.

19          JUDGE MEYERS: Thank you.

20          MR. DESAI: So -- but let me get into the merits of  
21 this case, and I just -- there's some context here for the  
22 invention of the '969 Patent that's important.

23          The Patent lays out in detail mechanisms for robotic  
24 stapler that articulates clamps, cuts, and staples tissue. A  
25 number of claims have been challenged, but we have focused our

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1 briefing on Claim 24 and this presentation on Claim 24, and  
2 that's directed to the mechanisms that are shown here on Slide  
3 2.

4           Specifically, we have an elongated shaft for robotic  
5 tool that comprises spine portions coupled in articulation  
6 joint. There's a tool mounting portion that mounts to the  
7 robotic system, and the spine portions at the articulation  
8 joint are operably coupled to the tool mounting portion, and  
9 as shown in this embodiment, that's via those articulation  
10 cables that allow control of the joint from the tool mounting  
11 portion.

12           And then there's also the movable components in the  
13 end effector, such as a knife or a jaw, that are gear driven  
14 by a transmission assembly. And you see those highlighted,  
15 for example, as closure gear assembly and knife gear assembly.  
16 Okay? This combination of features provides for both  
17 maneuverability and high force actuation of a movable end  
18 effector component in a robotic tool.

19           Now, in this case, we have the advantage of evidence  
20 that takes us back to 2011, so we can avoid hindsight bias,  
21 and we can see what both parties were saying about the need  
22 for and difficulty in making such a robotic tool.

23           So I'm on Slide 3. And on the left, we have the  
24 '969 Patent, and there's an excerpt in Column 23, and this  
25 refers to some Intuitive patents. Specifically, there's --

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1 the Anderson Patent is referenced there, the robotic tool with  
2 ultrasound cauterizing, and then there's also the Wallace  
3 Patent platform link wrist mechanism. It's actually a  
4 different patent number, but it's the same exact disclosure as  
5 well. It's just a continuation. So it's the exact same  
6 disclosure as well that's in this case.

7 And it explains here that this -- these ultrasonic  
8 robotic tools and this platform link wrist mechanism in  
9 Wallace are unable to generate the forces required to cut and  
10 fasten tissue. Okay?

11 And then on the right, we have an Intuitive  
12 publication also from 2011 explaining that devices that are  
13 maneuverable, like the one in Wallace, don't generate  
14 sufficient clamping force that you need for a linear cutter.  
15 And they say there's a need for improvement in the  
16 maneuverability of surgical end effectors and a need for end  
17 effectors with high actuation force, for example, high  
18 clamping force.

19 So we have Intuitive acknowledging in 2011, there's  
20 a need for maneuverable end effectors that also have high  
21 clamping force. Well, this definitely, I believe, contradicts  
22 Mr. Katz's statement that it's no problem to generate a tool  
23 with high clamping force. You can see Intuitive saying the  
24 opposite in 2011.

25 And then on Slide 4, I still have the same quote up

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1 from the '969 Patent, but, now, I have another Intuitive  
2 publication from 2012, and this confirms, again, the  
3 difficulty of providing both maneuverability and high force  
4 actuation. It's a generating desired clamping force, while  
5 also providing the desired maneuverability for use within  
6 size-restricted minimally evasive surgical tools, has proven  
7 to be quite difficult. Transferring the advantages available  
8 from surgical staplers, linear cutters, and clamping tools to  
9 robotic surgical settings may involve even more challenges.  
10 Okay?

11 So as you can see here, and we'll get into the  
12 grounds, that providing a tool with both maneuverability,  
13 articulation, and clamping is not as simple as Patent Owner --  
14 Petitioner has made it seem.

15 And then on Slide 5, just a little more evidence  
16 here of the state of the art, with respect to robotic tools,  
17 and this is Exhibit 2009. It's a 2011 paper from the Journal  
18 of Endourology comparing grip forces for then existing robotic  
19 tools. And these are all low force instruments in comparison  
20 to a linear cutter.

21 The forces here on the left, they're in neutrons,  
22 but they're all less than 10 pounds. Right? In comparison  
23 for clamping and firing, we're talking about 70 to 120 pounds  
24 force clamping and 40 to 100 pounds for cutting. So this is,  
25 sort of, the state of the art.

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1           And then at the core of Petitioner's case are a  
2 handful of patents that disclose prior art robotic tools. And  
3 there is a common theme for these tools. They lack the  
4 combination of maneuverability and gear driven actuation of an  
5 end effector component provided by the '969 Patent. Okay? So  
6 I'm on Slide 6 now, and I'll quickly run through these four  
7 references on Slide 6 and 7.

8           Anderson, this is a harmonic tool. Okay? It's an  
9 ultrasound tool, and it is -- it has a low grip force, as you  
10 can see by that, sort of, little gripper, and it has no  
11 articulation. And Dr. Awtar explained that the principle  
12 operation of an ultrasound tool actually prohibits  
13 articulation because you're propagating sound waves down a  
14 shaft, and you can't have a band. That's at Paragraph 79 and  
15 80 of Exhibit 2006 in the -01247 IPR.

16           So, next, we have Prisco, and this is a curved  
17 cannula tool. Okay? So you have a long cannula, and it has a  
18 slight curvature to it. And even though Prisco does -- we  
19 acknowledge, it mentions the word, wrist. It says wrist, but  
20 it does not disclose a wrist mechanism. Okay? It mentions  
21 the possibility of a wrist, but omits any wrist mechanism from  
22 its instrument. Okay? And that's why we have to go to  
23 Cooper, right? And so this is the other two references.

24           JUDGE COCKS: But, Counsel, I have a question. I  
25 think your opposing counsel has suggested that Prisco

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1 discussed a wrist through, I guess, incorporation by  
2 reference, and that it was optional.

3 MR. DESAI: That's absolutely correct.

4 JUDGE COCKS: Okay. So what would you have me take  
5 from that disclosure that's opposite from what they're asking  
6 me to take from that disclosure?

7 MR. DESAI: Right. And I will get to that.

8 JUDGE COCKS: Okay.

9 MR. DESAI: But to answer your question right now  
10 just quickly is that if POSITA were to go to that  
11 incorporation by reference, they will go to Cooper, and they  
12 will see that Cooper discloses a multi-disc wrist, but they  
13 will also see that Cooper discloses that multi-disc wrist in  
14 conjunction with cables for pulling grip. Okay?

15 So if you're POSITA and you go to Cooper, you're  
16 going to see a wrist and it's being combined with pull cables.  
17 That does not fall within the scope of our Patent. Okay? And  
18 what they want to do is they want to ignore Cooper. They want  
19 to take the wrist, ignore the fact that it's made to work with  
20 cables and use it with a drive rod. And that, we would  
21 submit, is not disclosed in Prisco, and it's not disclosed in  
22 Cooper.

23 So, again, going to Cooper -- again, and Cooper and  
24 Wallace are sort of the two articulating tools that they rely  
25 on -- Petitioner relies on, and Cooper is a multi-disc wrist,

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1 and it has cable actuated grip. That is clearly  
2 unquestionably the combination that's disclosed in Cooper.  
3 Okay?

4 And then Wallace, also an articulating tool, but he  
5 uses a different kind of articulating mechanism. Instead of  
6 the multi-disc wrist, it has this platform that you can  
7 maneuver. But as their expert admitted, there is absolutely  
8 no grip mechanism disclosed in Wallace that can be used with  
9 that platform link wrist. It's just a black box. It doesn't  
10 tell you how to do it. Okay?

11 So you can see from these four references the  
12 challenges associated with providing both articulation and  
13 high force grip. Okay?

14 JUDGE COCKS: Where did their expert admit that?

15 MR. DESAI: It's on one of our slides, and I'll get  
16 into that when I start talking about Wallace.

17 So I'm going to start with the -01248 IPR. I'm going  
18 to skip a little bit ahead. Just go in a different order,  
19 since that's the order that Petitioner went in.

20 So, here, again, this is a Petition that deals with  
21 Prisco and Cooper. As I mentioned --

22 JUDGE MEYERS: Excuse me, Counsellor, what page are  
23 you on?

24 MR. DESAI: I'm sorry. I'm on Slide 35 now.

25 JUDGE MEYERS: Thank you.

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1           MR. DESAI: This is the Prisco, the curved cannula  
2 tool that employs either pull-pull cables for grip or a push-  
3 pull solid drive rod for grip. Two options.

4           There is no wrist mechanism disclosed in Cooper. So  
5 to say that Prisco discloses a wrist is misleading in a way  
6 because to meet the spine and articulation limitations of the  
7 claim, Petitioner relies entirely on the multi-disc wrist in  
8 Cooper. Okay? Cooper does disclose a multi-disc wrist, but  
9 it specifically and only describes it in conjunction with  
10 pull-pull cables for grip. Okay?

11           So I will summarize our view as to this combination.  
12 And the first -- again, the combination of a wrist and the  
13 pull-pull cables is disclosed in Cooper, but this combination  
14 does not satisfy the claim limitations that require a gear  
15 driven portion that applies a control motion to an end  
16 effector component.

17           Second, Prisco's disclosure of a gear driven  
18 push-pull rod, drive rod, the solid rod, does not anticipate  
19 because Prisco never disclosed it in combination with the  
20 multi-disc wrist of Cooper. That's a combination that  
21 Petitioner is making in this IPR. It's not something that a  
22 POSITA would take reading Prisco. Right? It's not an  
23 anticipation. When you have to combine distinct embodiments,  
24 we are no longer in the world of anticipation. We are in the  
25 world of obviousness.

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1           And a POSITA would not immediately envision this  
2 arrangement of a solid drive rod with the multi-disc wrist of  
3 Cooper because if the POSITA goes to Cooper, they see and they  
4 learn that the multi-disc wrist is made to work with pull-pull  
5 cables for grip. That's the teaching they get from Cooper.  
6 It's only by ignoring what's in Cooper do you arrive at this  
7 combination of a solid drive rod with a bending wrist.

8           And then I think the third point is that the solid  
9 push-pull drive rod, a solid steel rod, is not compatible with  
10 a bending wrist of Cooper. Okay?

11           So let's move on to Slide 36, and these are just the  
12 two illustrations of the different embodiments for grip.

13           In Prisco, you have the pull-pull cables on the left  
14 that's mated with that tool assembly on the left, and then the  
15 push-pull drive rod is -- it belongs with that -- a different  
16 tool base on the right. So they have different tool bases,  
17 right? And the key being that the grip for the pull-pull  
18 cables involves tension elements that are spooled on a spool  
19 and twisted back and forth, and there is no gear involved in  
20 driving the pull-pull cables.

21           JUDGE COCKS: Counsel, as you discuss this, just,  
22 could you maybe summarize why a pull-pull cable arrangement  
23 does not provide the control motion required by Claim 24?

24           MR. DESAI: So that's the next slide, 37, right  
25 here.

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1           So -- and it's a little small up there, but what  
2 you'll see is the pull -- and so I have the pull-pull  
3 embodiment shown on the Slide 37, and you'll see there that  
4 the claim requires a -- that the top portion of the claim in  
5 red, very top portion, requires a movable component of the end  
6 effector that moves -- and this is key -- relative to another  
7 end effector component. Okay? So that would be, like, a jaw  
8 if it was relative, okay, or a knife sliding through the end  
9 effector, moves relative to another end effector component.  
10 But rolling the shaft does not involve moving any end effector  
11 component relative to another end effector component. Okay?

12           So that's why the shaft roll, shown in green, does  
13 not meet the limitation of the claim because when we're  
14 talking about a gear driven portion that applies a motion to  
15 the selectively movable component, we're talking about a  
16 motion where that movable component is moving relative to  
17 another component. And you can see that if you sort of go  
18 through these three red aspects of the claim. Okay? We're  
19 talking about relative motion of an end effector component  
20 driven by a gear.

21           JUDGE MEYERS: So then a control motion cannot be  
22 rotation of the end effector?

23           MR. DESAI: I would say in this case, it is not  
24 because the claim specifically says that control motions are  
25 ones where the selectively movable component is moving

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1 relative to another end effector component. Okay?

2 And then, obviously, because there is an end  
3 effector component in this embodiment that does move, there is  
4 a jaw that moves, but in the cable grip embodiment, it is not  
5 driven by a gear; it is cables that are spooled and wrapped  
6 around a spool. So that that wouldn't satisfy the limitation.  
7 Okay?

8 So that sort of establishes -- and then we have Dr.  
9 Knodel's cross-examination testimony at the bottom here, where  
10 he -- you know, we had asked, Does -- the gear mesh for the  
11 shaft roll does not control a motion of a movable component of  
12 the end effector, right? He says, I don't see how that would  
13 happen. Right?

14 So he agrees. Right? That's not moving an end  
15 effector component, the shaft roll.

16 So I think it's clear that the pull-pull cable  
17 embodiment does not fall within the scope of the claim. So  
18 then that brings us to the push-pull drive rod embodiment.  
19 Okay?

20 And so the question is, is this something that's  
21 being combined with a multi-disc wrist in Cooper? And while  
22 we start with Prisco on Slide 38, and it tells us that, Well,  
23 you can't have a wrist, but omitting the wrist simplifies  
24 everything. And it says, specifically, for this embodiment,  
25 that you have mechanisms used to control a wrist have been

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1 eliminated. Okay? So they couldn't put together the  
2 mechanisms in this Patent to make the drive rod work with a  
3 wrist, so they just left it out. Okay?

4 So then let's go -- we have to go to Cooper because  
5 that's where Petitioner is getting the limitations for the  
6 spine portions of the claim. And, again, on Slide 39, we see  
7 clearly that Cooper's wrist is made to work with grip cables.  
8 Okay? That is how it's made to work.

9 You can see in the top picture on Slide 39, you see  
10 those two red grip cables going through the joint, and then  
11 you're going to use -- you're going to pull one to open, pull  
12 the other to close. And it even discloses a back end, so the  
13 bottom picture on the left. That's the tool mount in Cooper  
14 for controlling that cable pull-pull. And, again, it's the  
15 same thing. You have a spool with the cables tension around  
16 it, and you can twist it back and forth to pull the cable, so  
17 it will manipulate the jaw.

18 And there's a reason why Cooper doesn't disclose the  
19 multi-disc wrist in combination with a solid drive rod,  
20 because it wouldn't work. It's not meant to work that way. A  
21 solid drive rod is not meant to bend sharply with a wrist.  
22 Okay? You wouldn't use that. And we have our expert's  
23 testimony explaining why a POSITA would understand that a  
24 solid steel rod does not have the properties to allow it to  
25 flex around a sharp bend while also being rigid enough

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1 longitudinally to transmit force when being both pushed and  
2 pulled.

3           Remember, pulled cables are tension, and they  
4 only need to transmit force when they're pulled because you  
5 have two cables. Right? But a rod that's pushing and  
6 pulling has to be stiff enough so that when you push it, it  
7 doesn't flex. Right? And -- but if you want it to bend  
8 around a corner, it's going to have to flex. Well, that's  
9 going to present a problem when you're trying to push on it  
10 to make it transmit force. Okay?

11           So how did Petitioner respond? The first thing  
12 they say is, Well, Cooper doesn't require a wrist that bend  
13 sharply. Well, on Slide 42, those are the images of Cooper  
14 that were included in the Petition, on Slide 42. And it  
15 clearly looks like a wrist that bends sharply.

16           And then I think there was the suggestion during  
17 the argument here that Cooper discloses a risk that only  
18 involves a 45 degree angle, and that 45 degrees is not a  
19 sharp bend. Well, that's just not true. And it is, I  
20 think, very telling that you can scour their expert's  
21 declaration. And he did not submit expert declaration on  
22 this point. There's nowhere that any one expert has said,  
23 Well, 45 degrees is not a sharp bend or that Cooper's wrist  
24 only bends 45 degrees.

25           The idea that you would only use three discs?

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1 Yes, that's fine, but that means two 45-degree bends.

2 Okay? So you would not use three discs to just bend 45  
3 degrees.

4 And then the idea that 45-degree bend is not a  
5 sharp one is simply -- it's not believable because if you  
6 compare it to the curved cannula -- so, remember, Prisco's  
7 drive rod is made for that curved cannula tool, and that  
8 has a slight curvature over a long length. Right? That's  
9 not a sharp bend.

10 But, here, in Prisco -- I mean, sorry -- in  
11 Cooper, the wrist has 45 degree angles at a point. Right?  
12 Not over a long distance. Right? Now, you're talking  
13 about with two discs, you're talking about two consecutive  
14 45-degree bends spaced just slightly apart. A solid steel  
15 drive rod is not made for that.

16 JUDGE COCKS: Counsel, does Dr. Awtar testify  
17 that a 45-degree bend would be regarded in the art as a  
18 sharp bend or something to that effect?

19 MR. DESAI: I think he -- what he testifies to is  
20 that Cooper is disclosing a wrist that bends sharply.

21 You know, I think there was this -- there's a  
22 sentence in Cooper that we relied on, which is at Column  
23 13, Lines 55, and it specifically says that the wrist --  
24 the grip mechanism needs to bend sharply.

25 Now, I think Petitioner is trying to argue, Well,

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1 that doesn't apply because what it says at Cooper -- at  
2 that specific sentence, it says, Because there are only  
3 five discs, the grip mechanism needs to bend sharply.  
4 That's how it says it. But that doesn't mean that fewer  
5 discs would mean no sharp bends. What it's really saying  
6 is that if you want to eliminate sharp bends, you would  
7 need more discs because then you want to distribute the  
8 bending over a longer length. But if you reduce the number  
9 of discs, you're not eliminating sharp bends.

10 So the notion that Cooper, when it says, Because  
11 there are only five discs, the grip mechanism needs to bend  
12 sharply, that doesn't mean that if you have fewer discs,  
13 there's no bending sharply. It just means that if you want  
14 to eliminate the sharp bends, you need to put more discs  
15 in.

16 Okay. Some other arguments in their reply on  
17 this issue, they say that, Well, the push-pull drive rod is  
18 nearly identical in structure to the pull-pull tension  
19 elements. Well, that's not correct. They're clearly  
20 described differently. One is called a hypotube, not a  
21 solid drive rod. And I think this is entirely -- this is  
22 Slide 43. This is entirely attorney argument.

23 Petitioner's expert did not submit a declaration  
24 supporting this statement in the reply. Okay? You can see  
25 here, they are described differently. A hypotube and a

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1 solid steel drive rod are not the same.

2 The next argument is Slide 44. And we see  
3 Petitioner reply saying, Well, if the drive rod isn't so  
4 great, well, a POSITA could choose the appropriate  
5 thickness material; they can make it work. They could  
6 change everything and make it work.

7 And the key here is what they've cited. They've  
8 cited Knodel Declaration, Paragraph 112. And I've pasted  
9 Knodel, Paragraph 112, up on the screen. And I can tell  
10 you, from reading that, it provides absolutely no support  
11 for what's been stated in the reply. It's not as generic  
12 and conclusory of a paragraph, you'll find, in an expert  
13 declaration.

14 And then the last point they made in their reply  
15 was Patent Owner's incompatibility arguments are premised  
16 on the physical combination of specific embodiments of  
17 Prisco and Cooper. That's correct because that is the  
18 specific combination of embodiments that Petitioner  
19 proposed in the Petition to arrive at the specific  
20 limitations of the '969 claim.

21 I'm on Slide 45. And you'll see here that, at  
22 the Petition on Pages 54, and 59, and 60, when trying to  
23 show how the prior art meets the limitations of the claim,  
24 they relied explicitly on the multi-disc wrist. They  
25 annotated it, shown on the right there, and they relied

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1 explicitly on the push-pull drive rod, and that's also  
2 annotated as it was in the Petition. So the physical  
3 combination here is one that Petitioner chose, not Patent  
4 Owner.

5 So unless there're any other questions, I will  
6 move on to the -01247 IPR.

7 Okay. This is the IPR where we're combining  
8 Anderson's robotic harmonic tool, on the left on Slide 9,  
9 and Timm's handheld endocutter on the right. And there are  
10 independent reasons here to deny the challenge of Claim 24  
11 as well.

12 First, as I'll get into, there's a failure in the  
13 Petition to establish that this combination meets the  
14 limitation of a tool mounting portion operably coupled to a  
15 distal end of the proximal spine portion. The evidence,  
16 second, shows that a POSITA would not have been motivated  
17 to combine Timm's passive articulation joint with a robotic  
18 tool, as Petitioner has proposed. And, third, there would  
19 not have been a reasonable expectation of success in making  
20 this combination, given the fundamental differences between  
21 those two pieces of prior art that you see up there.

22 Because time is somewhat limited, I'm going to  
23 cover the first two points and rest on the briefs for that  
24 third point.

25 I'm on Slide 10. And this is the Timm passive

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1 articulation joint that is relied on in the Petition. It's  
2 clear that this is what they were relying on for their  
3 combination.

4 To understand a passive articulation joint, Your  
5 Honors, it would involve a tool you're holding in your  
6 hand, at least in Timm, and you have to push it up against  
7 something in order to make it articulate. Okay?

8 So it's really not -- it's not intuitive control.  
9 It's pushing it up against something in order to make it  
10 articulate. And you -- basically, it says you can bring it  
11 into contact with another tool or you can bring it into  
12 contact with a part of the -- you know, of the patient in  
13 the body.

14 Now, going to Slide 11. This is the claim  
15 limitation, you know, the language that's at issue with the  
16 correction in the original claim language.

17 In red is the original claim language on the  
18 screen, a tool mounting portion operably coupled to a  
19 distal end of the proximal spine portion. And what I've  
20 shown on Slide 11 is the totality of the argument that was  
21 made in the Petition with respect to this limitation.

22 And on the right, at the top, is the Petition,  
23 and on the bottom is the associated expert declaration.  
24 And, actually, we've given them the benefit of the doubt  
25 because they cited the wrong paragraph of the expert

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1 declaration. They cited 105. I think they clearly were  
2 trying to cite to 104.

3 And what you'll see here is the argument in the  
4 Petition that's, Well, it's satisfied because the proximal  
5 it's -- the operable coupling is via the structure of the  
6 distal spine portion itself. That's what it says in the  
7 petition.

8 But then look at the expert declaration. It says  
9 something different. It says, The operable coupling is via  
10 the proximal spine portion itself.

11 So the expert declaration and the Petition don't  
12 even match up. There's never been a correction made here  
13 by anyone to provide what is the right argument they were  
14 relying on. And I can say with certainty, there is nothing  
15 in here that argues about a locking cable being the  
16 operable coupling.

17 You could search the Petition, and you will not  
18 find an argument that a locking cable is what satisfies  
19 this claim limitation. And that's why any argument in the  
20 reply that makes that argument is improper because if they  
21 had made that argument in a petition, we would've responded  
22 to that argument.

23 But we cannot respond to arguments that are not  
24 in the petition, and that's why it will be improper to  
25 allow it to be made in a reply. But what you see here on

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1 the Petition, on Slide 11, clearly fails to establish the  
2 required operable coupling.

3 And I think that's why Petitioner, to be honest,  
4 is focused you -- was trying to focus, Your Honors, on the  
5 corrected claim language because they recognize that they  
6 didn't provide the proof in their Petition on the  
7 uncorrected language.

8 So let me go to slide --

9 JUDGE MEYERS: Counselor, excuse me for a moment.

10 MR. DESAI: Yes.

11 JUDGE MEYERS: So in the uncorrected language,  
12 where does the tool mounting portion connect to the  
13 articulation joint?

14 MR. DESAI: So it's at the -- there's probably a  
15 good slide here. I'll show you. It's -- go back.

16 Slide 2. And you see there, the proximal spine  
17 portion has a distal end that is coupled to that  
18 articulation joint, and then you have the cables that are  
19 coupling to the joint right there at the (indiscernible).  
20 And so that's where you have the distal end of the proximal  
21 spine portion; it's where you're coupled at the joint, and  
22 that is controlled by the cables.

23 JUDGE MEYERS: Okay. Thank you.

24 MR. DESAI: So let me go to the second reason why  
25 this Petition should be denied, and it's that a POSITA

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1 would not have been motivated in combining the passive  
2 articulation joint with a robotic tool.

3 The -- we have the unrebutted testimony of Dr.  
4 Fegelman, a surgeon with experience using both robotic  
5 tools, and passively articulating handheld tools. And his  
6 testimony is definitive on this issue. Intuitive did not  
7 cross-examine Dr. Fegelman or present any competing  
8 testimony from a similarly experienced surgeon.

9 I think, first, Dr. Fegelman explained that he  
10 was not aware of any passively articulated robotic tools at  
11 the time of his retirement, and he's not aware of any that  
12 exists today. I assure you, if Intuitive knew of a  
13 passively articulated robotic tool, they would've brought  
14 it up in their reply brief. But they don't exist because  
15 no one would do it. And the reason you wouldn't do it is  
16 because you need real-time tactile feedback to perform  
17 passive articulation safely.

18 You're talking about a tool, in the body of a  
19 patient, and you're pressing it up against something, and  
20 if you don't know how hard you're pressing, you can damage  
21 the tool itself. You could damage a part of the body.  
22 It's simply not something a person would want to do without  
23 the appropriate tactile feedback. Okay?

24 And as confirmed by Dr. Awtar, I'm on Slide 14,  
25 it was well-known that robotic systems at the time were not

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1 capable in providing haptic feedback concerning the forces  
2 applied to the exterior of an end effector. That  
3 technology did not exist. Okay? So that's a reason why  
4 you would not fundamentally change the operation of a  
5 passive articulation joint and put it in a robotic tool  
6 because it requires something that doesn't exist, and it  
7 wouldn't -- wouldn't be in the possession of a POSITA.

8         There's a second reason why you wouldn't use  
9 passive articulation in a robotic tool aside from the  
10 safety issue, which I think is a compelling reason not to.  
11 In Slide 13 is that Dr. Fegelman explained that passive  
12 articulation sort of negates the very perceived benefit of  
13 robotic surgery, which is this intuitive control over the  
14 device. Okay.

15         If you're -- in a robotic surgery -- and you'll  
16 read in all of the robotic patents, Wallace, Cooper -- the  
17 point being that the surgeon has the complete control over  
18 the tool at the console. Okay? But if you now require an  
19 exterior force to be applied, it's no longer an intuitive  
20 control. So that's kind of antithetical to the very  
21 purpose of robotic surgery.

22         But, nonetheless, here's the reply on this  
23 passive articulation point. And I'm on Slide 15. And the  
24 first response from Petitioner was, Well, Anderson  
25 discloses tactile feedback, so it's no big deal. Okay?

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1 Well, we asked Dr. Knodel -- I'm on Slide 15. Are you  
2 aware of any prior art that describes a system for feedback  
3 associated with a passive articulation tool? I'm not aware  
4 of that, no. And then do you agree that Anderson does not  
5 disclose tactile feedback for passive articulation? Not  
6 that I recall. Right? Okay. So Anderson doesn't disclose  
7 that.

8 So let's move to Slide 16. The next thing  
9 Petitioner says is, Well, Dr. Knodel says a skilled surgeon  
10 can just choose a resilient part of the body to press up  
11 against or -- and they also know -- they're good enough to  
12 do it without the tactile feedback. It's not a big deal.

13 Well, this is Slide 16, and here is what we asked  
14 him at his deposition. Have you ever been involved in the  
15 design of a passively articulating tool? No, I have not.  
16 Okay. Have you ever used a passive articulating tool in a  
17 surgery? You're not that kind of doctor. He's like, Yeah,  
18 not that -- I haven't done that. Then, of course, the key  
19 here. Have you ever had any discussions with any surgeons  
20 about passively articulating tools? The answer, No.

21 Dr. Knodel simply is incapable of opining on this  
22 issue, and he was willing to say whatever he needed to.  
23 But it's not believable and it should be disregarded.

24 So let me go to Slide 17. And then the last  
25 point, I think, Petitioner made was that if tactile

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1 feedback was a requirement, well, a POSITA would just add  
2 it to a robot. But on Slide 17, we have some articles from  
3 the 2011 timeframe. Okay? And they say, Exhibit 2017 and  
4 Exhibit 2018, Lack of haptic feedback is the most important  
5 drawback of currently available in robotic systems. And  
6 the second one says, The lack of effective haptic feedback  
7 is often reported by surgeons and robotic researchers alike  
8 to be a major limitation of robotic systems. Okay?

9 This is all in the 2011 timeframe. It's simply  
10 not believable that if a POSITA would simply add a tactile  
11 feedback to a robot -- because, clearly, that was a problem  
12 with robots and people didn't have an answer.

13 So that covers the -01247 IPR.

14 I'll move onto the -01254 IPR. And this is the  
15 combination, again, of a handheld stapler. Giordano,  
16 Shelton, that's shown on the left side on Slide 20, and  
17 then Wallace, which is the platform wrist robotic tool on  
18 the right.

19 To quickly summarize the points I'm going to  
20 cover here, just like in the -01247 IPR, the Petition failed  
21 to establish the limitation of a tool mounting portion  
22 operably coupled to a distal end of a proximal spine  
23 portion.

24 Second, Petitioner has proposed this alternative  
25 combination where you would have Wallace as articulation

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1 joint used with Shelton's stapler, that stapling mechanism,  
2 but that would be inoperable, as I'll explain.

3           And then the third issue is that the motivations  
4 to combine Giordano, Shelton, and Wallace are flawed. And,  
5 again, loss of tactile feedback is a clear reason why a  
6 POSITA would not have been motivated at this timeframe to  
7 convert Giordano-Shelton handheld stapler to a robotic  
8 stapler. There's also the reasonable expectation of  
9 success issue, but, again, I'll rest on the briefs on that  
10 issue.

11           So starting with the failure of proof on the  
12 limitation about the operable coupling. I'm on Slide 21.  
13 And, again, the Petitioner has asked, I think, that the  
14 Board should focus on the corrected language. Again, I  
15 think it's because they recognize the problem in the  
16 Petition. And, here, it couldn't be more clear from the  
17 Petition that they were relying on Giordano's articulation  
18 mechanism; they put it in quotes there. And they say that  
19 includes articulation control 16 and articulation pivot 14.  
20 And you can see this on Pages 81 and 82 in the Petition.

21           And this is the analysis of Claim 11, which is  
22 the dependent claim. But as you'll see, and I'll go to the  
23 next slide, Slide 22. Again, they kind of double down  
24 Petition at 83. They say, Motivated to add Giordano's  
25 articulation mechanism to the Shelton stapler.

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1           So -- and you understand, there's a two-step  
2 analysis here from Petitioner. They're saying you add  
3 Giordano's articulation to Shelton's stapler, and then you  
4 convert Shelton's stapler to a robotic. Okay?

5           That's the analysis here. But the beginning was  
6 using Giordano's articulation, and they say right there,  
7 you would add Giordano's articulation mechanism including  
8 an articulation control 16, okay, pointed out by number.

9           And then when we get to the analysis of Claim 24,  
10 they say, again, you're using the Shelton's stapler adapted  
11 for use with Giordano's articulation mechanism. And they  
12 say see Ground 1, Claim 11. So they refer to everything I  
13 just talked about, where it was clear that they're relying  
14 on the articulation control 16. Okay.

15           Now, when it comes to analyzing the limitation  
16 that's specifically at issue, I'm on Slide 23, again, we  
17 have the Petition at Page 90 and Dr. Knodel's declaration.  
18 And, again, it's this conclusory statement that doesn't  
19 establish how the articulation control 16, which is on the  
20 shaft itself, would involve an operable coupling to the  
21 tool mounting portion. It just says, Via elongated shaft  
22 assembly -- it would be operably coupled via the elongated  
23 shaft assembly to the distal end of the proximate spine  
24 tube.

25           There's no explanation. There's no basis for

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1 saying that with the articulation control 16, you would  
2 have an operable coupling further proximally to a tool  
3 mounting portion. Okay?

4 But, now, during Petitioner's presentation, you  
5 heard an argument about how the articulation control 16 of  
6 Giordano would be moved into the tool mounting portion.  
7 Okay? That argument does not exist in the Petition. Okay.  
8 It is an improper reply argument and subject to a motion to  
9 strike.

10 And I think, again, you can look here on Slide 23  
11 and see the arguments that they made. And it doesn't  
12 involve any discussion of moving the articulation control  
13 into the tool mounting portion.

14 Now, if that's what they want to argue they  
15 should've put it in the Petition because then, we could've  
16 responded to them.

17 The idea here now that they can cobble together  
18 different parts of the petition and say, Oh, look I can  
19 cite to this; I can cite to that. But that's not making  
20 the argument. I mean, in order for a Patent Owner to be  
21 able to appropriately respond, the argument needs to be  
22 made clearly, and it was not. So it shouldn't be in this  
23 case.

24 So Slide 24. This is Petitioner's first  
25 alternative combination. Okay? So we're talking about

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1 combining Shelton with Wallace's platform wrist. And you  
2 see the Wallace platform wrist in the bottom; Shelton's  
3 stapler on the top.

4 And, now, the key here is what they said in the  
5 Petition. They said the motivation to do this, you would  
6 modify Shelton's stapler to add Wallace's articulation  
7 wrist, and the reason why you would do it is because  
8 Wallace teaches, it's desirable to provide surgical tools  
9 that have three degrees of rotational movement, okay, to  
10 mimic a wrist. And then they keep going, and it says,  
11 Wallace further teaches that it gives you a 360-degree  
12 movement, which improves upon Giordano. Okay?

13 So that was the only bases they had in the  
14 Petition for why you would take Wallace's wrist and pop it  
15 into the Shelton's stapling mechanism. Okay?

16 But, of course, the problem is Shelton's stapler,  
17 you could see it has this firing bar, long thin firing bar.  
18 Okay? That cannot bend in two directions. Okay? There is  
19 no way that firing bar can be twisted 360 degrees. Right?

20 And Dr. Awtar explained that. It's just not -- I  
21 mean, it's visually apparent. You don't even need an  
22 expert to say this to you. It's visually apparent that  
23 that long thin firing bar -- it can bend this way, like  
24 this, but there's no way it's going to be able to do this  
25 and still function as a firing bar. Okay? And that was on

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1 Slide 25; that's Dr. Awtar's testimony.

2 So in the reply brief, they come back, and they  
3 recognize now that the firing bar is inoperable with the  
4 Wallace wrist. And so what do they say? Well, okay, a  
5 POSITA would just use one axis of articulation with  
6 Wallace's wrist. And this is Slide 26.

7 But the problem there is that that's exactly the  
8 opposite of the reasons why they said you would do it in  
9 the first place, at the Petition at 85. I mean, I've  
10 highlighted here in yellow the reasons they gave in the  
11 petition for using the Wallace wrist in the first place,  
12 was that it gives you 360 degrees rotation. It gives you  
13 three degrees of movement.

14 And then when they find out that that's  
15 inoperable they say, Okay, let's just -- we'll just change  
16 our argument.

17 Again, that's not how a POSITA would behave. A  
18 POSITA would see the Wallace wrist, and they would see that  
19 it's not meant to work with the Shelton firing bar. Okay?

20 So I'm quickly getting through some of the  
21 motivations to combine. Slide 27. This is -- now, we're  
22 talking about the motivation here to combine Giordano with  
23 Wallace. We're not talking about the alternative  
24 combination of Wallace's wrist anymore.

25 And they said, Well, you would do it because

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1 combining Shelton's stapler and Wallace system, that  
2 increases dexterity and intuitive controls. Of course, it  
3 doesn't in this situation because Wallace is a patent  
4 that's dedicated to this platform wrist. The whole benefit  
5 of it is to provide more degrees of movement, and what  
6 they're doing is they're taking a tool that has fewer  
7 degrees of movement and putting it on that robot.

8         And then they say in Slide 28, in the Petition,  
9 Wallace contemplates a use of its robotic surgical system  
10 with surgical staplers. I can assure you, you can read  
11 Wallace, and you will not arrive at that conclusion  
12 because, first of all, we asked our expert, Does it even  
13 include a mechanism -- is it designed to drive an  
14 endocutter that clamps and fires? He says, No, it's not.  
15 That's correct. It's not.

16         All right. The figures that show the tool base  
17 don't disclose something that can drive an endocutter. It  
18 can't clamp and fire.

19         And it gets even worse because we asked him, does  
20 it even disclose a mechanism for actuating the jaws through  
21 the platform wrist? He goes, The figure is not clear as to  
22 show the internals of that mechanism. I said, Okay, well  
23 does the text provide any information about the internals  
24 of a mechanism to clamp jaws or grip jaws through the  
25 wrist? No, not that I recall.

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1           Okay. So, clearly, Wallace is not a patent about  
2 stapling because it doesn't even tell you how you would  
3 clamp jaws through a wrist. All right?

4           So, now, the last point I'll make about this  
5 Giordano combination is there is a clear reason, if you can  
6 go back to 2011, the timeframe at issue, why a POSITA would  
7 not have combined a handheld endocutter with a robotic  
8 tool.

9           And on Slide 29, we've -- what we've put up here  
10 is some evidence about how tactile feedback is something  
11 that's particularly important for an endocutter, okay, as  
12 opposed to maybe some other types of robotic tools, like a  
13 clip applicator or some of those smaller tools, like a  
14 harmonic tool.

15           Because with an endocutter you have to clamp on  
16 the tissue, and you want to make sure that you haven't  
17 clamped too much tissue because a severe problem with  
18 clamping too much tissue is if you have too much tissue in  
19 there when you fire, the staples will not form. Okay?

20           It's essential when you're cutting through tissue  
21 with an endocutter that the staples form properly because  
22 if you don't do that, you're cutting tissue without sealing  
23 it, and that can involve a lot of bleeding.

24           And so what surgeons had in their -- with  
25 handheld endocutter's is they can feel. They can feel the

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1 tissue. Okay? And that was essential to their operation.

2 And not only was it essential to clamping, it was important

3 to firing too. Because they need to know if there's firing

4 they can feel some feedback in their hand, that it's not

5 firing, and they need to stop firing. Okay?

6 So these are -- this is on Slide 29 and Exhibits

7 2015, 2016. They are referenced in our POR, and they sort

8 of -- and then also we have some testimony from Dr. Awtar

9 about how this is an important aspect of a handheld stapler

10 that would deter a POSITA from fundamentally changing that

11 operation and putting it on a robotic tool.

12 And the reason why is, and we've already talked

13 about this -- this is on Slide 30, is that robotic tools

14 did not have that kind of tactile feedback available at

15 this time. It just wasn't available. And, frankly, it's

16 not available today.

17 And on Slide 31, this is Dr. Awtar's testimony

18 about how tactile feedback is an important aspect of

19 operating an endocutter.

20 But -- so how did Petitioner reply on this

21 tactile feedback issue?

22 First, I'm on Slide 32, they argued that, Well,

23 tactile feedback can't be necessary because the Petitioner

24 developed the stapler in 2013 that doesn't have tactile

25 feedback. Okay? But that's not the full story.

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1           The reality is that Petitioner's engineers  
2 understood that tactile feedback was actually very  
3 important to the operation of an endocutter. And that  
4 because it wasn't available, tactile feedback on robotic  
5 systems, they had to develop something to act as a  
6 substitute. Okay?

7           So this is the testimony on Slide 32. And this  
8 confirms, one, that tactile feedback is significant to the  
9 operation of an endocutter. And second, it confirms that  
10 converting a handheld endocutter to a robotic tool, which  
11 is something Patent -- Petitioner didn't even do until  
12 2013, involves a fundamental change in the principal of an  
13 operation because you need to develop something new to make  
14 it something that you can use.

15           That is not a combination involving ordinary  
16 skill. Okay? There's cases that we've cited to talk about  
17 how, if you -- if you're changing the fundamental principal  
18 of operation, that's not really obviousness anymore.

19           And so this testimony here, I think, establishes  
20 that converting a handheld device to a robotic device,  
21 specifically with respect to an endocutter, is not  
22 something a POSITA would do.

23           And then in their reply brief, they -- again, on  
24 Slide 33, they said, Well, don't worry about it. Wallace  
25 and Tierney, they disclose tactile feedback. It's no

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1 problem.

2 Well, we asked Dr. Knodel about this again. And  
3 so Wallace and Tierney, actually, if you look at Dr.  
4 Knodel's declaration -- so this -- the reply at 8 cites Dr.  
5 Knodel's declaration at Paragraph 16 and 17. And then Dr.  
6 Knodel, at Paragraph 16 and 17, points to the incorporation  
7 of US Patent 6,132,368 that are incorporated in Wallace and  
8 Tierney. And he said, This discloses tactile feedback.

9 Now US 6, that's an old patent. We're talking 25  
10 years ago. Right? We asked him, Does it actually tell you  
11 how to accomplish tactile feedback; the guts of it, how  
12 does it work? He goes, No, it doesn't tell you how to do  
13 it. Okay?

14 And that's because it just -- it's a bare  
15 statement in this Patent about, oh, tactile feedback would  
16 be nice. But, again, we know from the contemporaneous  
17 documents in 2011 that it wasn't something that was  
18 available for robotic systems, even though we were  
19 specified as being a major problem, a major limitation.

20 And we asked Dr. Knodel, Well, you saw that Dr.  
21 Fegelman and Dr. Awtar reference these studies that talked  
22 about the need for feedback, and how it wasn't available;  
23 you know, what did you think about those? Well, I didn't  
24 read them, he said.

25 Unless, Your Honors, have any other questions, I

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1 have nothing more.

2 JUDGE COCKS: I do have one brief question.

3 Not to belabor this Certificate of Correction,

4 but there's nothing in office records that suggest that it

5 shouldn't be credited. We have -- but for what we now have

6 is an Interlocutory Order from the District Court for now

7 State proceeding saying it's invalid. Are you suggesting

8 that that somewhat binds our hands? That there's no

9 discretion to consider that -- whether it's valid or not,

10 for this Panel?

11 MR. DESAI: I believe the District Court decision

12 invalidating a certificate that's not subject to appeal is

13 a final decision on whether that certificate is valid. I

14 mean, in other case, I would say -- let's pose a

15 hypothetical here.

16 Suppose a District Court invalidates a

17 certificate; it's done. It's -- does something need to be

18 filed with the Patent Office to effectuate that

19 invalidation of the certificate? I don't believe so.

20 I think once that happens, it's -- the District

21 Court that has the authority, I think, by statute to

22 address this certificate. And once they do, and it's not

23 subject to appeal, that's basically the law of the -- I

24 would say the law of the case, in a way.

25 JUDGE COCKS: Yes, I understand your positions.

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1 Thank you.

2 MR. DESAI: Thank you.

3 JUDGE WOOD: Mr. Desai, you have 12 minutes for  
4 rebuttal.

5 MR. DESAI: Thank you.

6 JUDGE WOOD: You may begin when you're ready, Mr.  
7 Denning. You have 23 minutes.

8 MR. DENNING: Thank you, Your Honors. I will be  
9 brief.

10 I think it sounds like we're in agreement; that  
11 the Board should be considering both the Certificate of  
12 Correction language, as well as the uncorrected language  
13 shown, so I don't know that there's anything else for me to  
14 get to. And I know my colleagues are eager to get to the  
15 substance of the merits of the arguments.

16 I will say one thing. Judge Cocks, you mentioned  
17 the point, there's nothing in the final history, in the  
18 prosecution history, the file reply of this Patent that  
19 says the Certificate of Correction that's there shouldn't  
20 be there; that it's been corrected again, pulled out,  
21 invalidated, withdrawn. There's nothing there. So think  
22 it is important for the Board to exhibit the Patent as it  
23 exists in the Patent Office right now.

24 The order from Judge Stark in the District Court  
25 certainly is an Interlocutory Order. It's a -- it's not

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1 even a Markman Order.

2 He entered a Markman Order, and then later, he  
3 entered this Certificate of Correction. But the Markman  
4 Order didn't even rely on the Certificate of Correction.  
5 So not only is it not a final judgement; it's not a  
6 judgement at all. It's an Interlocutory Order. And the  
7 decision on the Certificate of Correction was not essential  
8 to that Interlocutory Order.

9 So I don't think that collateral estoppel  
10 applies, prevents us from making the argument. I don't  
11 think that we can ignore the corrected claim language.

12 Counsel mentioned briefly judicial estoppel also  
13 as an argument. And, you know, it's the same rationale  
14 applies. Our positions aren't inconsistent. We've always  
15 said we don't think the Certificate of Correction should  
16 have issue, but it's there, so we have to deal with it, and  
17 that's what we've done in the Petition.

18 And, you know, if it has displayed to Intuitive's  
19 advantage. I think to the opposite, Ethicon is trying to  
20 play these two, the Certificate of Correction and the order  
21 invalidating the certificate of correction off each other  
22 to keep the Board from considering the corrected language  
23 or from arguing that we weren't as fulsome as we should  
24 have been in the Petition, the original Petition, about the  
25 original language, even though that wasn't in effect at the

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1 time.

2 And I'll make one point, and then I'll turn it  
3 over to Mr. Katz, which is, it is important to know that  
4 Patent Owner had a sur-reply after our reply, in which they  
5 could've responded to any of the arguments that they  
6 mentioned weren't adequately made in the original petition.

7 You know, things did change over time. There was  
8 the order. Their reply relied almost entirely on the  
9 original language, so that's what our reply addressed.  
10 They had a sur-reply to address any of those arguments that  
11 they want.

12 Without any additional questions, I'll turn it  
13 over to Mr. Katz to -- next. Thank you.

14 JUDGE WOOD: Thank you.

15 MR. KATZ: Thank you, Your Honors.

16 I guess threshold issues, I think we heard a lot  
17 of attorney argument, a lot of statements that are not in  
18 the record; can't address them all.

19 Also another threshold issue, if you look at  
20 every time they said Dr. Knodel admitted something, go and  
21 read the context a little more around where Dr. Knodel made  
22 the statement on their slide, and he didn't actually say  
23 what they claimed he said. And they used that repeatedly.  
24 And you'll see that for yourself. If we have time, we'll  
25 address them, but I'm not sure we will.

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1           Specifically, on Prisco, you heard Counsel  
2 repeatedly again say, We're mixing different embodiments,  
3 and you can't do that in an anticipation analysis. That's  
4 not what we're doing. We already covered it in our opening  
5 statement, and I can repeat it.

6           Prisco absolutely says you can add a wrist to all  
7 the embodiments it has, and we've pointed out why the  
8 statements about adding a wrist are not limited to  
9 pull-pull. So by definition, Prisco says, you can add a  
10 wrist, and then you go to Cooper for the details. And so  
11 we're definitely not mixing different embodiments.

12           Also, interestingly I heard Counsel for Patent  
13 Owner make an interesting statement with regard to  
14 Giordano. He said, You have a firing bar, you know, that,  
15 you know, can bend, which is true. I'm glad to hear them  
16 admit it.

17           A firing bar is something that pushes and pulls.  
18 It is a push-pull device. So a firing bar can bend, but a  
19 push-pull rod in Prisco can't bend. It doesn't make much  
20 sense. Clearly, you can make a bending structure that can  
21 push-pull.

22           So you heard Counsel make statements, Oh, you  
23 just can't push-pull and bend. You can't mix those two  
24 concepts. Firing bars do it all the time. There's no  
25 reason why a push-pull rod can't.

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1           JUDGE COCKS: Counsel, do we have in the record  
2 an illustration or disclosure of a firing bar that is  
3 bending?

4           MR. KATZ: They -- Prisco does not mention the  
5 words, a firing bar bends. But what Prisco does do is say,  
6 as I pointed it out, they discuss a push-pull embodiment  
7 which has a push-pull structure, and then they say you can  
8 add a wrist.

9           So that teaching tells you that the push-pull  
10 structure can bend. Prisco is teaching that. And that's  
11 what a POSITA would take away from Prisco; that I can add a  
12 wrist to both the push-pull and the pull-pull. There is  
13 no basis in the record --

14          JUDGE MEYERS: Counsel --

15          MR. KATZ: Oh, I'm sorry. Judge Meyers?

16          JUDGE MEYERS: I'm sorry. Excuse me. Yes.

17          Do you have a cite that you can point to for  
18 showing that a wrist can be added to either embodiment?

19          MR. KATZ: Yeah. So it's actually on our --  
20 these slide we used at Column 16. If you read the entirety  
21 of Column 16, you'll see the reference to wrist, and it  
22 follows a discussion of the push-pull embodiment. So  
23 there's no basis to read Prisco as excluding push-pull from  
24 that additional risk.

25          You would expect them to say, Oh, by the way,

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1 we're now going to discuss a wrist. This would only be  
2 added to the pull-pull and not the push-pull, and there's  
3 no statement like that in Prisco.

4 Prisco never suggests it's a limited thing. It's  
5 a generic statement that they make.

6 And as I pointed out, they specifically talk  
7 about the principals of stiffening, which certainly applies  
8 to push-pull, and both parties agree, to push-pull, you  
9 need to definitely have stiffening. And we pointed out in  
10 Slide 11 how the principals of stiffening can be adapted  
11 using a wrist. And we pointed that out on Slide 11 and 12.

12 JUDGE MEYERS: Thank you.

13 MR. KATZ: Regarding Cooper, the sharp comment  
14 you heard Counsel now say, Oh, all wrists are sharp. I  
15 don't want to -- I'm paraphrasing. But that was the gist  
16 of, I think, what their argument was.

17 There's no support for that.

18 Prisco mentions bend sharply in the passage cited  
19 by Dr. Awtar for a single embodiment that is five discs and  
20 bends 180 degrees. There is no requirement that the Cooper  
21 wrist always have five discs to bend 180 degrees, and there  
22 is no -- so all of Dr. Awtar's statements, which they say  
23 we didn't rebut. But our rebuttal is, his assumptions are  
24 all wrong. There is no requirement in Cooper to always  
25 have five discs that can bend 180 degrees.

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1           In fact, I heard Counsel for Patent Owner admit  
2 that if you have more discs, that -- it makes the bend more  
3 gradual. And as we pointed out in our opening statement  
4 that's in the slides, Cooper discloses you can have more  
5 than five discs, so you can add more discs if that's what  
6 you would want to do.

7           In Slide 37, if we could bring up their Slide 37,  
8 or if you have it, this is Patent Owner's Slide 37. This  
9 is the alternate embodiment. So I think we've covered the  
10 push-pull embodiment ad nauseam. There's not much more to  
11 say there.

12           For the pull-pull embodiment, they say, We don't  
13 meet the claim language. Well, what's interesting is if  
14 you look at Slide 37, the claim says you have to have  
15 control motions that act in or that you have to -- you do  
16 have to open and close in response to control motions.

17           At the bottom of the claim, it says you have to  
18 have at least one control motion to the selectively  
19 moveable component. It doesn't say, Said at least one  
20 control motion. Right. This is not -- there's no  
21 antecedent bases issue. There's no reason why the last  
22 control motion has to be the same as the prior control  
23 motions. These are two different statements. There's no  
24 said referring back.

25           And so we submit that claim does not require that

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1 the control motion at the bottom of the claim has to  
2 perform opening and closing, which is what Patent Owner's  
3 position is.

4 As for the Knodel transcript, I was going to put  
5 it up, but we don't have time. You can read it yourself.  
6 I just want to say the key language is not what they  
7 highlighted in yellow. The key language of the Knodel  
8 transcript is the first three words of the question. In  
9 other words, if you look at the prior question, the prior  
10 question was about, Does it move relative to one another?  
11 In other words, the question to Dr. Knodel was, Does this  
12 control motion cause opening and closing? And Dr. Knodel  
13 said, No, it doesn't. In fact, I believe they chopped off  
14 the answer. You'll have to go look at the transcript. I  
15 believe that's not the complete answer. Okay.

16 Let's -- can you bring it up? Okay. I don't  
17 want to use too much time flipping back and forth. I don't  
18 think that's what we were just looking at. You know what?  
19 We don't -- just -- yeah. Okay.

20 But you can read the transcript yourself.  
21 Suffice it to say, Dr. Knodel certainly did not admit that  
22 the claim is not met.

23 Slide 41. Okay. We already talked about that.  
24 Oh -- and oh, and then there was a discussion whether  
25 Cooper only discloses a cable embodiment, and so Cooper has

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1 to be limited to cables. That's not correct.

2 Now, let's bring up the Cooper reference.

3 Cooper absolutely discloses a more generic  
4 structure, and what Cooper says at lines -- at Column 39,  
5 Line 32, if we can zoom in a little more on that.

6 Can we zoom in on that? Can you just highlight  
7 -- where is it? Okay. We'll get to the cite anyway.  
8 Here's what -- on fly is a little more difficult than to  
9 having pre-canned demonstratives.

10 Cooper has a statement that absolutely says you  
11 can have -- oh, there it is. Right. You have a space in  
12 the wrist.

13 So, remember, Cooper is about the wrist; it's not  
14 about the controls. And what they say is, Oh, in most of  
15 the exemplary embodiments, they are discussing pull-pull  
16 cables going through the wrist. But it says right here at  
17 Line 42, right, that you can have -- you have these  
18 openings through the wrist that can provide a conduit for  
19 any one of a number of alternative elements or  
20 instrumentalities associated with the operation of the end  
21 effector.

22 So what does that tell you in Cooper? It's not  
23 limited to the pull-pull cables. You can put anything  
24 through the wrist you want. And if you want to put a  
25 push-pull rod through, you can put a push-pull rod through.

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1 There is no reason they'll say Cooper is somehow limited to  
2 cables.

3 So you have Prisco saying you can add a wrist,  
4 it's an optional. Go look at Cooper. Cooper says, Here's  
5 a wrist; oh, by the way, we have conduits that you can put  
6 anything through. Sure. In our examples, we're showing  
7 two cables. Cooper never says it only works if you just  
8 put two cables through, as opposed to a single push-pull  
9 device.

10 Switching now -- so that's Prisco. I'm done with  
11 my Prisco rebuttal.

12 Turn to Anderson very quickly. You know, they're  
13 arguing that we have new arguments in our reply. And I  
14 think, tellingly, what they said in their Anderson  
15 discussion, I think I got a direct quote here, regarding to  
16 -- and let's bring up their Anderson -- this is their  
17 Anderson by the way. The first slide on Anderson. Oh, I'm  
18 sorry. Not the first slide, there's -- Slide 10. Slide 10  
19 of Patent Owner's demonstrative. Right. There it is.

20 There's the passive articulation joint, Figure  
21 52, which is in our Petition. And I believe this is a  
22 direct quote from Mr. Desai. It is clear this is what they  
23 are relying on in their combination; this, being that  
24 figure, passive articulation.

25 In their reply, it says, their -- Patent Owner's

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1 response says that they recognize that we're relying on the  
2 passive articulation joint for the combination. And so  
3 there's no question that we are relying on the passive  
4 articulation; that they go at length to say that we're not  
5 relying on the active articulation joint. Were only  
6 relying on the passive articulation joint.

7 And so you have the situation where the material  
8 we're relying on is admittedly very clear to them. They  
9 know what our argument is, and their expert admits that  
10 that provides a coupling. So there's no issue here.

11 Mr. Desai stated that had they known, they  
12 would've responded. There's nothing to respond to. Their  
13 expert admitted there is a coupling to the distal end by  
14 the control cable that makes the ball freeze and lock.

15 So there's no dispute that there's a coupling  
16 there, and they understood we're relying on the passive  
17 articulation joint. You know, the argument is clearly  
18 there, and we spell it out in the Petition.

19 They make the comment in their sur-reply, I  
20 believe, that we don't provide citations, constant  
21 citations, back to previous discussions.

22 The bottom line is we started the analysis with  
23 Claim 23. They disclaimed Claim 23. But their disclaimer  
24 of Claim 23 doesn't mean all of our arguments for Claim 23  
25 go away. That was the first claim, and Claim 24 built on

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1 the material in Claim 23.

2 So we already discussed this structure, and there

3 would be no reason why we would have to repeat it because

4 they simply, out of fear, they might disclaim a claim.

5 That would have been made highly redundant, and there's no

6 way you could write a petition in 14,000 words, I submit.

7 I'm not sure -- I feel wasting time on tactile

8 feedback is truly a waste of time.

9 This PTAB Board has to rely on the patents and

10 publications. That's the prior art at issue. They keep

11 talking about what happened with actual systems. That's

12 irrelevant, whether an actual system has tactile feedback

13 or not.

14 So the fact that they say that Intuitive's actual

15 systems, I believe, he said, like, to this day don't have

16 tactile feedback, even though we have an endocutter now,

17 you know, is irrelevant. The point is, what does the

18 disclosure in the Patent say? And I --

19 JUDGE WOOD: Wouldn't that be relevant as

20 evidence of objective indicia of non-obviousness?

21 MR. KATZ: It would not be because the references

22 discussed the tactile feedback.

23 First of all, tactile feedback isn't a claim

24 term. I just got to always remind the Board of that.

25 They're just saying, Oh, well, a person of ordinary skill

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1 in the art wouldn't want tactile feedback. It would be  
2 important to see it. And the fact is -- and our product  
3 today, they're pointing to Smart Clamp (ph), which is not  
4 tactile feedback. It's a video feedback, which is  
5 admittedly in the prior art.

6 So the key is our patents do disclose that you  
7 could add tactile feedback. The fact that our product did  
8 not have the type of tactile feedback being discussed in  
9 the patent is irrelevant. The disclosure of tactile  
10 feedback is there.

11 And, again, they say Knodel admitted that there's  
12 no disclosure of the guts of tactile feedback in one of our  
13 references. That's not true. It actually goes at length.  
14 There's a discussion again.

15 If you look at the transcript, they asked him,  
16 Oh, so it mentions feedback sensors; it mentions servo  
17 motors. Okay. But the implication was, but does it show  
18 you how to put it all together. It's like, well, that  
19 discussion isn't there.

20 But what you have in Anderson is it says you have  
21 feedback sensors. And so you have a sensor, you can get  
22 the information to the computer, and then the computer can  
23 control the handles. I'm not sure what more it would have  
24 to say. All right. That's enough to disclose tactile  
25 feedback.

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1           And they keep saying that tactile feedback  
2 requires detailed disclosure because no one would know how  
3 to do it. Well, their patent doesn't describe how to do  
4 it. They discuss tactile feedback in a sentence. They're  
5 the patent. The '969 Patent has the one sentence.

6           Our patents actually say that you can use  
7 feedback sensors, for example, and you want to get the  
8 information to the computer. So we have more than they  
9 have.

10          So the idea that their patent needs this  
11 requirement of tactile feedback but somehow ours doesn't  
12 doesn't make any sense.

13          Regarding Dr. Fegelman, his testimony is not  
14 rebutted. Look at what his testimony actually says. His  
15 testimony says it wouldn't be clinically acceptable. He  
16 never says a person of ordinary skill in the art would  
17 never make this combination because it's not clinically  
18 acceptable. That -- he never makes that leap.

19          His testimony is about clinical acceptability.  
20 And what he focuses on is that because in a passive  
21 articulation joint, you might have to go against tissue,  
22 you got to be real careful, and people wouldn't want to do  
23 that.

24          And so what does Dr. Knodel say in rebuttal? He  
25 says, Well, you wouldn't have to use tissue.

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1           Now, they focused on that, and he said, Well, you  
2 could. But Dr. Knodel first lead -- was saying you would  
3 use one instrument with another instrument. So you have a  
4 grasper and your stapler, and you can push the stapler into  
5 position, which is --

6           And they say, Well, you wouldn't want to give up  
7 full control to a robot. That's another -- what Dr.  
8 Fegelman said.

9           And as we pointed out in our reply brief, you  
10 don't give up full control. If the surgeon operating the  
11 robot takes a grasper and moves the stapler into position,  
12 he's got full control of where that passive articulation  
13 joint is moving to. And that's what our briefing says, and  
14 that fully rebuts everything Dr. Fegelman has to say.

15           JUDGE COCKS: Counsel, you didn't cross-examine  
16 him though; is that correct?

17           MR. KATZ: We did not cross -- there was no need  
18 to. His statements really don't get the Patent Owner where  
19 they think they're getting. I mean, he -- so there's a  
20 doctor out there who says he thinks it would be clinically  
21 unacceptable.

22           And that comes back to our citation of the Griggs  
23 Patent, which is their own patent. Right?

24           Even assuming it's true that most surgeons would  
25 find something clinically unacceptable doesn't mean a

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1 POSITA wouldn't think of creating a device and trying to  
2 sell it.

3 And so their Griggs Patent, their very own  
4 Ethicon Patent, suggests putting passive articulation in a  
5 robot; something they claim might be clinically  
6 unacceptable.

7 So, again, clinical unacceptability is not the  
8 test, but may be a factor that can be considered, but  
9 certainly isn't the test.

10 And what you have -- and they say, Well, Dr.  
11 Knodel has no business testifying about what someone, a  
12 user, may use. That doesn't make any sense.

13 You got to remember who Dr. Knodel is. He's not  
14 some just hired gun off the street. He was an Ethicon  
15 engineer, and he designed their staplers. He has intimate  
16 knowledge of stapler design. The fact that he hasn't  
17 designed one with passive articulation doesn't mean he's  
18 not qualified to testify about what staplers do and don't  
19 do and how the various ways to articulate that. So the  
20 idea that somehow we had to have a surgeon to talk about  
21 how a device would work doesn't make any sense.

22 Dr. Knodel, if you look at his credentials, is  
23 fully qualified, and we would submit is the, kind of, true  
24 expert of these proceedings who actually knows how these  
25 devices work and how they fit together and what's possible.

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1           Again, you heard the discussion that, Oh, people  
2 didn't do passive articulation or didn't do tactile  
3 feedback because they didn't have the answer. That's  
4 attorney argument. There's no basis to believe it was  
5 technically impossible to have a feedback sensor, send a  
6 signal to a computer, that people didn't know how to do  
7 that. All right. That whole idea that somehow it's  
8 difficult doesn't make sense.

9           And the reference they cite, the one they  
10 criticize Dr. Knodel for reading -- for not reading --  
11 excuse me -- didn't say tactile feedback is too impossible  
12 to do.

13           What they said is nobody has done it, so we're  
14 going to do an experiment. We're going to add tactile  
15 feedback to this robotic device, and were going to test it  
16 out ourselves. And that's what they did. And we pointed  
17 that out in our reply brief.

18           In the very document they're relying on, their  
19 solution to the fact they couldn't buy a commercial robot  
20 with tactile feedback is they just added it to do their  
21 test. There's no idea in that article that it's impossible  
22 to do.

23           And in turn I think I might turn over -- how many  
24 minutes do we have left? Do you --

25           JUDGE WOOD: You have a little over two minutes

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1 left.

2 MR. KATZ: I'm going to turn over to Mr.

3 O'Connor.

4 Can you say something in two minutes?

5 MR. O'CONNOR: I'm not sure.

6 MR. KATZ: Say something. I'll blame it on the

7 lack of a clock.

8 MR. O'CONNOR: That's okay.

9 Just real briefly, if we have a look at Patent

10 Owner Slide 28, and this goes to partially what Mr. Katz

11 was referring to in terms of mischaracterizing Dr. Knodel's

12 testimony.

13 There's a disconnect in this slide that was

14 mentioned a little bit earlier. But the Petition never

15 says that Wallace discloses an endocutter that clamps and

16 fires. The Petition explains that Wallace incorporates, by

17 reference, Tierney, which was Exhibit 109. The cite is six

18 -- Column 6, Lines 20 to 28, which confirms that the end

19 effector can be a stapler.

20 And then I'll also point the Board to Exhibit

21 1008, which is the Wallace Patent at Column 7, Lines 47 to

22 56, which confirms that Wallace end effector can be, quote,

23 unquote, any suitable end effector. This is clearly

24 broader than what Patent Owner's presenting.

25 And I don't think I have time for much else.

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1 Thank you very much.

2 JUDGE WOOD: All right. You only have half a  
3 minute.

4 MR. O'CONNOR: I don't know if I'll have time to  
5 go on that one.

6 JUDGE COCKS: You don't have to use your full  
7 time.

8 MR. O'CONNOR: Yeah. It's okay.

9 MR. KATZ: Well, in that case, I will use 15  
10 seconds of our remaining time just to point one other fact.

11 You know, they keep harping on the point that,  
12 Oh, well their patent, their wonderful patent is about  
13 mixing a wrist movement with high forces. And that -- and  
14 they point to our own patents that say that's difficult to  
15 do.

16 The bottom line is in the Anderson-Timm  
17 combination, the wrist in high forces is provided by Timm.  
18 Right? Timm is teaching that. And Timm isn't discussed in  
19 our documents.

20 So we're not saying it's the combination that  
21 creates this wonderful wrist with high forces; that Timm  
22 referenced itself, discloses wrist with high forces. We're  
23 saying you connect it to a robot.

24 JUDGE WOOD: All right. Thank you.

25 And you have 12 minutes, Mr. Desai.

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1 MR. DESAI: Okay. Thank you.

2 First point, I think the idea that we're trying  
3 to use the invalidation of the Certificate of Correction to  
4 our advantage is there's just no bases for that. We went  
5 to District Court. District Court validates the  
6 certificate, and we, accordingly, put in our POR addressing  
7 the claim as we thought it stood.

8 We -- I think the argument that, Well, we had a  
9 sur-reply, so we could address new arguments in the reply.  
10 I just -- I don't think that's a road that we should be  
11 going down in IPR proceedings. I mean, sur-reply is not --  
12 first of all, you're not permitted to put it into evidence  
13 without permission. You know, and the fact is --

14 JUDGE COCKS: Let me just say this to both  
15 parties a second.

16 MR. DESAI: Yeah.

17 JUDGE COCKS: This is an issue that comes up in  
18 many cases.

19 MR. DESAI: Yeah.

20 JUDGE COCKS: And the Panel is equipped to  
21 determine if that argument is improper, so --

22 MR. DESAI: All right. Thank you, Your Honor.

23 So let's go to -- I think the idea that Prisco  
24 says, you know, you can add a wrist to the drive rod  
25 embodiment.

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1           You know, Column 16, it's a generic statement.  
2    If a POSITA wanted specificity about what a wrist looks  
3    like in combination with a grip mechanism, they go to  
4    Cooper. And Cooper tells you, Here's how you do it. And  
5    you do it with cables for pulling.

6           The disclosure at Cooper at Column 39, Line 42,  
7    that is categorically not a disclosure of a wrist in  
8    combination with a solid drive rod. And I think the idea  
9    that you could put anything you want through the wrist of  
10   Cooper is simply not true.

11          I don't think any expert would ever say something  
12   like that; that you could put anything you want through the  
13   wrist and make it work. You need something that would  
14   work. And that's not a solid drive rod.

15          And the only expert who said anything about this  
16   is Dr. Awtar. Dr. Knodel has been silent on this issue,  
17   other than generic statements about you can combine all of  
18   these things and do anything you want.

19          So that's -- and then let me bring up this new  
20   argument about the firing bar. Okay?

21          The firing bar in Shelton is not a push-pull  
22   device. Okay? It is also not a solid steel drive rod.  
23   There's no testimony supporting what Mr. Katz just said  
24   about a firing bar. But I will tell you this, a firing bar  
25   transmits force during firing to eject staples and cut

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1 tissue, and then it is retracted, but the retraction does  
2 not involve applying force. Okay? It is retracted, unlike  
3 a push-pull steel drive rod in Prisco, where you are  
4 pushing it to open it -- either open or close, and then  
5 you're pulling it to either open or close. Okay? A firing  
6 rod is not a push-pull device.

7         And, again, the fact that the firing bar could be  
8 made of material that allows it to bend in a certain  
9 direction and still be able to push to apply the forces for  
10 firing is immaterial to whether a solid drive rod of Prisco  
11 can do its pushing and pulling action to open and close a  
12 jaw. They're not the same thing.

13         So let me go to Slide -- sorry -- 37, and address  
14 this claim language about the selectively moveable  
15 component, and whether it covers rolling the shaft.

16         So there's two reasons, and I think I covered  
17 them both, but I'll just quickly repeat them, which is the  
18 control motion is referred to as being one that moves the  
19 component relative to another. And it says control  
20 motions, and then it says at least one other control motion  
21 is driven by gear. Now, remember, because a control motion  
22 in this context in the patent is referring to the  
23 disclosure in the patent of the jaw or the knife. Right?  
24 So you're going to have controlled motions because you've  
25 got a jaw you're going to open and close, and a knife,

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1 you're going to send down and retract. Okay?

2 And then there's a second reason too. Even if  
3 you buy into this anteceded basis argument, it says, One  
4 gear driven portion that is in operable communication with  
5 at least one selectively moveable component, where that  
6 selectively moveable component is something that moves  
7 relative to another end effector component. That's clear.  
8 That can't be debated.

9 But how is a gear that rolls a shaft -- it's not  
10 communicating with one of those jaws. It's communicating  
11 with the shaft to roll the shaft. There's no operable  
12 communication between a gear that's rolling a shaft, right,  
13 and a jaw. It's rolling a shaft and that's all its doing,  
14 in contrast to a gear that would be opening and closing a  
15 jaw. That would be an operable communication with the jaw.  
16 So there's two reasons here, actually.

17 The next, let me go to this -- the passive  
18 articulation issue. And I'll start with, right, the idea  
19 that the locking cable was disclosed in the Petition as  
20 being the basis for why this limitation is met.

21 It's simply not there. And the key being -- one  
22 key being is that where in the -- I would look in the  
23 Petition for the explanation for how a locking mechanism  
24 would look in a robotic tool. Okay? It's not there. Is  
25 it locked by hand, like it is in Timm? Is it locked by the

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1 robot? It's not discussed because if it was discussed, we  
2 would have been able to respond on that point.

3 Now, as to the passive articulation and whether a  
4 POSITA would combine a passive articulation joint with the  
5 robotic -- sorry. I'm in the wrong place here. Oh, here.  
6 Whether a POSITA would combine -- it's not about whether  
7 the claim requires tactile feedback or not or haptic  
8 feedback.

9 The issue here is that the Petitioner, in order  
10 to arrive at the claims, is proposing the combination of a  
11 passive articulation joint with a robotic tool. And if  
12 that combination would require a POSITA to have tactile  
13 feedback, that becomes relevant to the issue of motivation  
14 to combine.

15 So it doesn't matter if our claim doesn't require  
16 tactile feedback. It's because the combination they're  
17 proposing is something a POSITA wouldn't, do and it's  
18 because of the feedback issue. That's why it's relevant.

19 I think I heard that -- something about Smart  
20 Clamp, which is the video technology that's being used.  
21 That's not prior art. There's no suggestion here that  
22 that's -- that's not in the prior art, so I don't even know  
23 why that's relevant.

24 There's also a discussion of this Griggs Patent.  
25 Okay? That was mentioned in their reply brief, and I think

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1 a sentence without any expert discussing it. It's not  
2 prior art either. Okay? That Griggs Patent is not prior  
3 art, so it doesn't matter what it says about what a POSITA  
4 would do in 2011.

5 I'll also tell you it's an ultrasonic tool. It's  
6 not an endocutter. And the fact that a patent that is not  
7 prior art poses the possibility of a passive robotic tool  
8 clearly does not mean that a POSITA would be motivated to  
9 make one in 2011. It's really irrelevant to the issue.

10 And then let's see. There was also the point  
11 about Dr. Fegelman, Dr. Fegelman saying his testimony about  
12 why it would be unacceptable to a surgeon and the argument  
13 that that was never translated into what a POSITA would do.  
14 That's incorrect.

15 Dr. Awtar reviewed the testimony of Dr. Fegelman  
16 and explained in Paragraph 73 of his declaration that a  
17 POSITA would be aware of the prevailing opinions of  
18 surgeons regarding passive articulation, and because they  
19 would be aware of that, they would not have made this  
20 combination.

21 So the connection between Dr. Fegelman's  
22 testimony and a POSITA was clearly a made in the evidence  
23 that has been submitted.

24 Your Honors, unless you have any questions, I  
25 have nothing further.

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1 JUDGE MEYERS: No further questions. Thank you.

2 MR. DESAI: Thank you.

3 JUDGE WOOD: Thank you, Mr. Desai. That  
4 concludes the oral argument for IPR2018-01247 -- excuse me  
5 -- IPR2018-01248 and IPR2018-01254.

6 I'll leave it to the parties to decide whether or  
7 not we need a break before proceeding into IPR2018-01703.

8 MR. DESAI: I think a five, ten-minute break  
9 would be fine. I think we'll have plenty of time.

10 MR. O'CONNOR: Can we make that five minutes?

11 MR. DESAI: Five. Sorry.

12 MR. O'CONNOR: We'll be fine. Okay.

13 JUDGE WOOD: All right. We're adjourned for the  
14 moment. Thank you.

15 (Proceedings concluded at 11:07 a.m.)

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