Date: October 22, 2019

Case: Certain Unmanned Aerial Vehicles and Components Thereof

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Ace-Federal Reporters, Inc. Phone: 202-347-3700 Fax: 202-737-3638 Email: info@acefederal.com Internet: www.acefederal.com

1	UNITED STATES OF AMERICA
2	BEFORE THE
3	INTERNATIONAL TRADE COMMISSION
4	
5	X
6	IN THE MATTER OF: : Investigation Number
7	CERTAIN UNMANNED AERIAL VEHICLES : 337-TA-1133
8	AND COMPONENTS THEREOF :
9	X
10	
11	HEARING
12	
13	
14	
15	Tuesday, October 22, 2019
16	Courtroom C
17	U.S. International Trade
18	Commission
19	500 E Street, S.W.
20	Washington, D.C.
21	
22	The Hearing commenced, pursuant to notice of the Judge, at
23	9:01 a.m., before the Honorable Charles E. Bullock, Chief
24	Administrative Law Judge for the United States
25	International Trade Commission.
	Page 210

²⁰²⁻³⁴⁷⁻³⁷⁰⁰ SZ DJI v. Autel IPR2019-00846 Ace-Federal Reporters, Inc.

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	Page 211	Page 213
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	Page 212	Page 214
1	APPEARANCES (Continued):	
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3	KATHERINE JOHNSON, ESQ.	2 ALSO PRESENT:
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		<u> </u>

²⁰²⁻³⁴⁷⁻³⁷⁰⁰ SZ DJI v. Autel IPR2019-00846 Ace-Federal Reporters, Inc.

202-737-3638 Autel Ex. 2005, p.3

2 (Pages 211 to 214)

	Page 275	Page 277
1	Q Dr. Alonso, you should have a binder in front of	¹ A That's correct.
2	you entitled Direct Witness Binder of Juan Alonso. Do you?	² Q Okay. So I'm going to sometimes people refer
3	A Yes, I do. I have it in front of me.	³ to the blades as the rotors, but then there is also the
4	Q And if you open that, could you take a look at	⁴ moving part of the motor that's also sometimes called the
5	the document that's been identified as RX-0001C?	5 rotor, right?
6	A Yes, I have it.	6 A That is true.
7	Q And can you tell me what that is?	7 Q Okay. So I'm going to try to refer to the
8	A Yes, it's my direct witness statement for this	⁸ propeller as the blade and the rotor as the part of the
9	case.	⁹ motor that moves. Is that okay?
10	Q And this is the witness statement where you	¹⁰ A That's perfect.
11	discussed the validity of the '013 and '184 patents?	¹¹ Q And if I mess that up, feel free to correct me,
12	A That is correct.	¹² but that's what I'm going to try to do.
13	Q Could you take a look at the last page of the	¹³ A Okay.
14	witness statement?	¹⁴ Q So in a quadcopter like this, it's common to
15	A Page 309.	¹⁵ have two of the rotors spin clockwise and two of the rotors
16	Q And is that your signature?	¹⁶ spin counterclockwise, is that right?
17	A That is my signature.	¹⁷ A I think it's not only common, I think it's
18	Q Does this witness statement contain your answers	18 necessary.
19	to the questions that were posed to you by counsel?	¹⁹ Q You have to do that, right, because if you don't
20	A Yes, it does.	²⁰ do that, you don't balance out the torque, right?
21	Q And are the answers true and correct, to the	²¹ A That's right.
22	best of your ability?	22 Q And you would also agree that propeller blades
23	A Yes.	²³ are designed, such that if they spin in the correct
24	MR. BRITTINGHAM: Your Honor, I move to admit	²⁴ direction, they generate lift, is that right?
25	RX-0001C.	²⁵ A That's correct. And the blades are twisted in a
	Page 276	Page 278
1	Page 276	Page 278
1 2	MR. CUNNINGHAM: No objection.	¹ specific way, so they are rotating in a particular
	MR. CUNNINGHAM: No objection. JUDGE BULLOCK: The Exhibit RX-0001C is received	 specific way, so they are rotating in a particular direction. They actually produce lift in one direction.
2	MR. CUNNINGHAM: No objection. JUDGE BULLOCK: The Exhibit RX-0001C is received in evidence.	 specific way, so they are rotating in a particular direction. They actually produce lift in one direction. They produce lift in the opposite direction, if it rotated
2 3	MR. CUNNINGHAM: No objection. JUDGE BULLOCK: The Exhibit RX-0001C is received	 specific way, so they are rotating in a particular direction. They actually produce lift in one direction. They produce lift in the opposite direction, if it rotated in the opposite direction as well.
2 3 4	MR. CUNNINGHAM: No objection. JUDGE BULLOCK: The Exhibit RX-0001C is received in evidence. (Exhibit No. RX-0001C was received in evidence.)	 specific way, so they are rotating in a particular direction. They actually produce lift in one direction. They produce lift in the opposite direction, if it rotated in the opposite direction as well. Q Okay. So if all four blades of this quadcopter
2 3 4 5	MR. CUNNINGHAM: No objection. JUDGE BULLOCK: The Exhibit RX-0001C is received in evidence. (Exhibit No. RX-0001C was	 specific way, so they are rotating in a particular direction. They actually produce lift in one direction. They produce lift in the opposite direction, if it rotated in the opposite direction as well. Q Okay. So if all four blades of this quadcopter are spinning in the correct direction, then all four blades
2 3 4 5 6	MR. CUNNINGHAM: No objection. JUDGE BULLOCK: The Exhibit RX-0001C is received in evidence. (Exhibit No. RX-0001C was received in evidence.) MR. BRITTINGHAM: And with that, I pass the	 specific way, so they are rotating in a particular direction. They actually produce lift in one direction. They produce lift in the opposite direction, if it rotated in the opposite direction as well. Q Okay. So if all four blades of this quadcopter are spinning in the correct direction, then all four blades
2 3 4 5 6 7	MR. CUNNINGHAM: No objection. JUDGE BULLOCK: The Exhibit RX-0001C is received in evidence. (Exhibit No. RX-0001C was received in evidence.) MR. BRITTINGHAM: And with that, I pass the witness. CROSS-EXAMINATION	 specific way, so they are rotating in a particular direction. They actually produce lift in one direction. They produce lift in the opposite direction, if it rotated in the opposite direction as well. Q Okay. So if all four blades of this quadcopter are spinning in the correct direction, then all four blades are generating lift, right?
2 3 4 5 6 7 8	MR. CUNNINGHAM: No objection. JUDGE BULLOCK: The Exhibit RX-0001C is received in evidence. (Exhibit No. RX-0001C was received in evidence.) MR. BRITTINGHAM: And with that, I pass the witness.	 specific way, so they are rotating in a particular direction. They actually produce lift in one direction. They produce lift in the opposite direction, if it rotated in the opposite direction as well. Q Okay. So if all four blades of this quadcopter are spinning in the correct direction, then all four blades are generating lift, right? A When the vehicle is in hover, for example, where
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2 3 4 5 6 7 8 9 10 11 12 13 14	MR. CUNNINGHAM: No objection. JUDGE BULLOCK: The Exhibit RX-0001C is received in evidence. (Exhibit No. RX-0001C was received in evidence.) MR. BRITTINGHAM: And with that, I pass the witness. CROSS-EXAMINATION BY MR. ABRAMIC: Q Good morning. My name is John Abramic, and I'll be asking you some questions today, Dr. Alonso. It's nice to meet you, sir. A Good to meet you as well. Q I did not expect to have the pleasure of talking	 specific way, so they are rotating in a particular direction. They actually produce lift in one direction. They produce lift in the opposite direction, if it rotated in the opposite direction as well. Q Okay. So if all four blades of this quadcopter are spinning in the correct direction, then all four blades are generating lift, right? A When the vehicle is in hover, for example, where the lift has to counteract the weight, that will be correct. When the vehicle is doing some extreme maneuvers, there is a possibility that there may be, you know, a negative lift, or a lack of lift in some of these propellers. Q Sure.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	MR. CUNNINGHAM: No objection. JUDGE BULLOCK: The Exhibit RX-0001C is received in evidence. (Exhibit No. RX-0001C was received in evidence.) MR. BRITTINGHAM: And with that, I pass the witness. CROSS-EXAMINATION BY MR. ABRAMIC: Q Good morning. My name is John Abramic, and I'll be asking you some questions today, Dr. Alonso. It's nice to meet you, sir. A Good to meet you as well. Q I did not expect to have the pleasure of talking to you this early in the week, but we're moving quickly.	 specific way, so they are rotating in a particular direction. They actually produce lift in one direction. They produce lift in the opposite direction, if it rotated in the opposite direction as well. Q Okay. So if all four blades of this quadcopter are spinning in the correct direction, then all four blades are generating lift, right? A When the vehicle is in hover, for example, where the lift has to counteract the weight, that will be correct. When the vehicle is doing some extreme maneuvers, there is a possibility that there may be, you know, a negative lift, or a lack of lift in some of these propellers. Q Sure. A But in general, yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. CUNNINGHAM: No objection. JUDGE BULLOCK: The Exhibit RX-0001C is received in evidence. (Exhibit No. RX-0001C was received in evidence.) MR. BRITTINGHAM: And with that, I pass the witness. CROSS-EXAMINATION BY MR. ABRAMIC: Q Good morning. My name is John Abramic, and I'll be asking you some questions today, Dr. Alonso. It's nice to meet you, sir. A Good to meet you as well. Q I did not expect to have the pleasure of talking to you this early in the week, but we're moving quickly. A So it seems.	 specific way, so they are rotating in a particular direction. They actually produce lift in one direction. They produce lift in the opposite direction, if it rotated in the opposite direction as well. Q Okay. So if all four blades of this quadcopter are generating lift, right? A When the vehicle is in hover, for example, where the lift has to counteract the weight, that will be correct. When the vehicle is doing some extreme maneuvers, there is a possibility that there may be, you know, a negative lift, or a lack of lift in some of these propellers. Q Sure. A But in general, yes. Q Okay. And to get the vehicles off the ground,
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. CUNNINGHAM: No objection. JUDGE BULLOCK: The Exhibit RX-0001C is received in evidence. (Exhibit No. RX-0001C was received in evidence.) MR. BRITTINGHAM: And with that, I pass the witness. CROSS-EXAMINATION BY MR. ABRAMIC: Q Good morning. My name is John Abramic, and I'll be asking you some questions today, Dr. Alonso. It's nice to meet you, sir. A Good to meet you as well. Q I did not expect to have the pleasure of talking to you this early in the week, but we're moving quickly. A So it seems. Q I don't think anybody is upset about that. So, Dr. Alonso, first, I'd like to discuss the '184 patent. MR. ABRAMIC: If we could bring up JX-0002. BY MR. ABRAMIC:	 specific way, so they are rotating in a particular direction. They actually produce lift in one direction. They produce lift in the opposite direction, if it rotated in the opposite direction as well. Q Okay. So if all four blades of this quadcopter are spinning in the correct direction, then all four blades are generating lift, right? A When the vehicle is in hover, for example, where the lift has to counteract the weight, that will be correct. When the vehicle is doing some extreme maneuvers, there is a possibility that there may be, you know, a negative lift, or a lack of lift in some of these propellers. Q Okay. And to get the vehicles off the ground, the force of that lift has to be greater than the weight of the vehicle, right? A That's right. It needs to be some acceleration
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	MR. CUNNINGHAM: No objection. JUDGE BULLOCK: The Exhibit RX-0001C is received in evidence. (Exhibit No. RX-0001C was received in evidence.) MR. BRITTINGHAM: And with that, I pass the witness. CROSS-EXAMINATION BY MR. ABRAMIC: Q Good morning. My name is John Abramic, and I'll be asking you some questions today, Dr. Alonso. It's nice to meet you, sir. A Good to meet you as well. Q I did not expect to have the pleasure of talking to you this early in the week, but we're moving quickly. A So it seems. Q I don't think anybody is upset about that. So, Dr. Alonso, first, I'd like to discuss the '184 patent. MR. ABRAMIC: Q And if we look at figure I of the '184 patent, figure I shows what's known as a quadcopter, correct?	 specific way, so they are rotating in a particular direction. They actually produce lift in one direction. They produce lift in the opposite direction, if it rotated in the opposite direction as well. Q Okay. So if all four blades of this quadcopter are spinning in the correct direction, then all four blades are generating lift, right? A When the vehicle is in hover, for example, where the lift has to counteract the weight, that will be correct. When the vehicle is doing some extreme maneuvers, there is a possibility that there may be, you know, a negative lift, or a lack of lift in some of these propellers. Q Okay. And to get the vehicles off the ground, the force of that lift has to be greater than the weight of the vehicle, right? A That's right. It needs to be some acceleration in the vertical direction. Q Now, if the blades spin in the incorrect direction, they produce a downward movement, right? A Yes, if by incorrect, we mean the direction it's not designed for, for producing positive flight, then yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 MR. CUNNINGHAM: No objection. JUDGE BULLOCK: The Exhibit RX-0001C is received in evidence. (Exhibit No. RX-0001C was received in evidence.) MR. BRITTINGHAM: And with that, I pass the witness. CROSS-EXAMINATION BY MR. ABRAMIC: Q Good morning. My name is John Abramic, and I'll be asking you some questions today, Dr. Alonso. It's nice to meet you, sir. A Good to meet you as well. Q I did not expect to have the pleasure of talking to you this early in the week, but we're moving quickly. A So it seems. Q I don't think anybody is upset about that. So, Dr. Alonso, first, I'd like to discuss the '184 patent. MR. ABRAMIC: If we could bring up JX-0002. BY MR. ABRAMIC: Q And if we look at figure 1 of the '184 patent, figure 1 shows what's known as a quadcopter, correct? A That is correct. 	 specific way, so they are rotating in a particular direction. They actually produce lift in one direction. They produce lift in the opposite direction, if it rotated in the opposite direction as well. Q Okay. So if all four blades of this quadcopter are spinning in the correct direction, then all four blades are generating lift, right? A When the vehicle is in hover, for example, where the lift has to counteract the weight, that will be correct. When the vehicle is doing some extreme maneuvers, there is a possibility that there may be, you know, a negative lift, or a lack of lift in some of these propellers. Q Okay. And to get the vehicles off the ground, the force of that lift has to be greater than the weight of the vehicle, right? A That's right. It needs to be some acceleration in the vertical direction. Q Now, if the blades spin in the incorrect direction, they produce a downward movement, right?

²⁰²⁻³⁴⁷⁻³⁷⁰⁰ SZ DJI v. Autel IPR2019-00846 Ace-Federal Reporters, Inc.

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18 (Pages 275 to 278)

	Page 279	Page 2	81
1	A You don't want when you're on the ground, you	¹ to the wrong rotor.	
2	mean?	² Q Can we go to your witness statement? Do you	
3	Q Let's say you're flying, and you've got three	 ³ have that in front of you? 	
4	blades spinning in the correct direction and one blade	4 A I do.	
5	pinning in the wrong direction, your vehicle is not going	⁵ MR. ABRAMIC: Can we call up question 63 fr	om
6	to fly very well, is it?	⁶ Dr. Alonso's witness statement? It's RX-0001C.	
7	A Yes, it would not be a good day.	7 BY MR. ABRAMIC:	
8	Q Thank you. Now, clockwise blades and	⁸ Q Do you have that, sir?	
9	counterclockwise blades have a different pitch, is that	9 A Yes, I do.	
10	right?	¹⁰ O So what I'd like to focus in on is the second	
11	A So the blade pitch, meaning the twist of the	11 sentence of that answer. Second sentence. Sorry. The	re
12	actual blade, the total pitch is the same on both. It's	¹² is a "sure," which is the first sentence. The second	10
13	just the orientation of it is different.	 sentence starts with "the '184 patent specification." 	
14	Q Correct. So if I was holding a clockwise blade	 "The '184 patent specification teaches at column" 	n
15	and a counter clockwise blade in my hand, you would notice	¹⁵ 1, line 55, through column 2, line 7, a lock mechanism	
16	that they are not exactly the same, right?	¹⁶ attaching blades to rotors in a UAV that prevents the	101
17	A That's correct.	¹⁷ clockwise rotor blade from being attached to the	
18	Q Now, you would agree with me that the focus of	 counterclockwise driveshaft and vice versa." Did I read 	d
19	the '184 patent is the mechanism for connecting the rotor	¹⁹ that correctly?	u
20	blades to the UAV, is that right?	²⁰ A You did.	
21	A That's part of it. Making sure you can attach	²¹ Q And that was your answer, correct?	
22	and detach relatively easily.	22 A That was my answer, correct.	
23	Q Okay. So I want to talk briefly about one	²³ Q And then in that answer, you cite to column 1,	
24	particular feature of the blade attachment mechanism that's	 ²⁴ line 55, through column 2, line 7 of the patent, is that 	
25	shown in the '184 patent. If we could pull up claim 1 of	²⁵ right?	
	Page 280	Page 2	82
1	Page 280 the '184 patent. And we are going to look at a particular	Page 2 A Please repeat that? I was looking. Column 1,	82
1 2		5	82
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²⁰²⁻³⁴⁷⁻³⁷⁰⁰ SZ DJI v. Autel IPR2019-00846

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²⁰²⁻⁷³⁷⁻³⁶³⁸ Autel Ex. 2005, p.5

19 (Pages 279 to 282)

1	Page 283		Page 285
	Q Thank you. And would you agree that that	1	as avoiding misplacement?
2	highlighted language that I just read is the same as the	2	A No, I think preventing attachment is stronger.
3	claim limitation language that we just read when we first	3	Misplacement, I think, means you can place it on top, but
4	started discussing the patent?	4	not necessarily attach it. Preventing attachment seems
5	A Let me just go back to claim 1.	5	like it requires that there is some kind of locking between
6	MR. ABRAMIC: Can we put claim 1 of the patent	6	the two pieces.
7	on top of that bottom call out there.	7	Q Okay. Thank you.
8	THE WITNESS: Are you asking me	8	A Uh-huh.
9	BY MR. ABRAMIC:	9	Q So we talked about how the '184 patent prevents
10	Q No, I'm sorry. I'm directing our graphics folks	10	attachment of the wrong rotor blade, correct?
11	to help you, but I think you're doing the same thing that	11	A Are you talking about the claim that's still up
12	I'm doing.	12	in here?
13	A But I was asking you if you're asking me if it's	13	Q I'm talking about your testimony that we went
14	verbatim the exact same wording in one and the other.	14	over.
15	Q I don't think it's absolutely verbatim, but I	15	A Yes.
16	think it's pretty close.	16	Q So the '184 patent, the design of the UAV in the
17	A Yes, so	17	'184 patent prevents the attachment of the wrong rotor
18	Q The claim limitation I'm referring to is	18	blade, correct?
19	"wherein the clockwise rotor blade is engageable only"	19	A Yes, we talked about that.
20	that one there.	20	Q And you would agree, it accomplishes that by
21	A Like you're saying, it may not be verbatim, but	21	having a locking mechanism that has a different
22	it's pretty close.	22	configuration for a clockwise rotor blade versus a
23	Q Just the wherein in the claim is the difference?	23	counterclockwise rotor blade, is that right?
24	A That's right.	24	A I think that's the essence.
25	MR. ABRAMIC: Okay. Now, if we could just leave	25	Q Okay. I'd like to turn to your validity
	D 004		D 000
1	Page 284	1	Page 286
2	the claim up for a minute, please, James. And can we highlight the "wherein the clockwise rotor blade is	2	opinions on the '184 patent. So you have opined in this case that the '184 patent claims, the asserted claims are
3	engageable."	-	
	engageable.	3	
4	BY MR ABRAMIC	3	anticipated and obvious, is that right?
4	BY MR. ABRAMIC: O And Dr. Alonso you were here for DII's opening	3 4 5	anticipated and obvious, is that right? A I have said that, yes, with various different
5	Q And, Dr. Alonso, you were here for DJI's opening	4 5	anticipated and obvious, is that right?A I have said that, yes, with various different approaches, uh-huh.
	Q And, Dr. Alonso, you were here for DJI's opening witness statement. Do you recall that?	4	anticipated and obvious, is that right?A I have said that, yes, with various different approaches, uh-huh.Q Okay. And you'd agree that those opinions are
5 6	Q And, Dr. Alonso, you were here for DJI's opening witness statement. Do you recall that?A I was here, yeah.	4 5 6 7	 anticipated and obvious, is that right? A I have said that, yes, with various different approaches, uh-huh. Q Okay. And you'd agree that those opinions are generally based on three different primary references. The
5 6 7	 Q And, Dr. Alonso, you were here for DJI's opening witness statement. Do you recall that? A I was here, yeah. Q You may not recall this, but at one point, this 	4 5 6	 anticipated and obvious, is that right? A I have said that, yes, with various different approaches, uh-huh. Q Okay. And you'd agree that those opinions are generally based on three different primary references. The Microdrones manual, the Sasaki publication, and the Zhou
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²⁰²⁻³⁴⁷⁻³⁷⁰⁰ SZ DJI v. Autel IPR2019-00846

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20 (Pages 283 to 286)

	Page 287	Page 289
1	A 0032.	¹ installed on the correct rotor, the leading edge of the
2	Q It's not page 2. It's the bottom hand portion	 ² blade in the direction of rotation is going to be higher
3	of the document?	³ than the trailing edge of the blade. Is that right?
4	A I have it now.	4 A That would be true. You'll have a positive
5	Q You have it. Okay. Thank you. And there is a	⁵ angle of attack, we call it. But yes, indeed.
6	figure 18 on that document. Do you see that?	⁶ Q Okay. Thank you. So maybe it might be a
7	A I see it.	 7 little bit difficult to see in the photo in figure 18, but
8	Q And would you agree that, looking at figure 18	⁸ would you agree that based on observing the pitch of the
9	on this page, that this depicts the Microdrones device?	⁹ blades and assuming that these blades are attached to the
10	A Yes, I would. In particular, that model I	¹⁰ correct rotors, that the rotor furthest to the right in the
11	describe, the md4-200.	11 photo
12	Q Okay. So I'm going to ask you several questions	¹² MR. ABRAMIC: Can we go to the rotor furthest to
13	about this product manual. I just want to make clear at	¹³ the right?
14	the outset that unless I say otherwise, my questions about	14 THE WITNESS: Yes.
15	Microdrones are about what this manual, this particular	¹⁵ BY MR. ABRAMIC:
16	document, teaches about the product. Is that all right?	¹⁶ Q That would appear to be a clockwise blade and
17	A Sure. It's all right.	17 rotor?
18	Q That's a yes?	¹⁸ A If you are looking from the top of the drone, I
19	A That's a yes.	¹⁹ think that blade it's hard to tell because of the
20	Q Thank you. So this photo here depicts a UAV	²⁰ perspective, but it would be rotating clockwise to produce
21	with four rotors and four blades, is that right?	21 positive lift.
22	A It looks right.	22 Q And you can make that determination based on the
23	Q And in the UAV depicted here in figure 18, you	²³ pitch of the blade, right?
24	would agree that the rotors are contained within bulb-like	A It's hard to see the right side of the blade,
25	structures that are at the end of each arm of the UAV,	²⁵ because you can't tell exactly how it's twisted. But if
	D 000	
	Page 288	Page 290
1	right?	Page 290 ¹ you look at the left blade and the inner portion, it
1 2		
	right?	¹ you look at the left blade and the inner portion, it
2	right? A What leg structures?	 you look at the left blade and the inner portion, it appears from this perspective that, indeed, it's slanted in
2 3	right? A What leg structures? Q I'm calling them bulb-like structures?	 you look at the left blade and the inner portion, it appears from this perspective that, indeed, it's slanted in one particular direction.
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	Page 291	Page 293
1	was clockwise or counterclockwise, correct?	¹ Q And in the first photo, you can see that the
2	A You would not be able to tell by looking at the	² blade has two knobs on the bottom of the blade, right?
3	motors themselves whether it's rotating in one direction or	³ A I can see those.
4	another. But in this particular case, there is some	4 Q And there is a hole in between knobs, right?
5	mounting plates that you can barely see here, that would	⁵ A That's right.
6	have different configurations, which would tell you that	⁶ Q And that hole is meant to fit over the
7	the intent was to have them rotate in one direction or the	7 driveshaft, right?
8	other.	⁸ A You're correct.
9	Q You can't see the mounting plates in this photo,	9 Q Okay. And that's the cylinder that was just
10	correct?	¹⁰ circled, protruding up out of the motor, is that right?
11	A No, I think you would there are better	11 A Indeed.
12	pictures in the manual, if you want to refer to those, but	12 Q Okay. Now, looking at that first photo, there
13	it is very hard to tell there. It's very grainy and low	¹³ is a flat piece of metal referred to in the reference as a
14	resolution.	 rotor mounting plate. I think you were talking about the
15	Q Okay. So now I want you to remove the blades	 root mounting plate. I unit you were taking about the mounting plate just a minute ago.
16		16 A Yes, I can see that.
17	and the mounting plates. A Okay.	ri i co, i cui occ unu.
18	A Okay.Q Would you agree with me that just by looking at	Q Okuy. This that sits on top of the fotor, right.
19	the rotor assembly, with the blades and the mounting plates	fit fillets year, fillear, on top of the motor,
20	removed, that you would not be able to tell if it was a	 rotor. I mean, are you referring that the rotor as the propeller blade or as
20	clockwise or counterclockwise rotor?	properties of us
22	A I think that's probably true, because it could	Q Sure. What this taking about is the silver
22		piece that has those whig tips on the end of it.
23	invert the voltage and make the motor rotate in one direction or the other.	11 105.
25		Q Okay. This it has a circle of a cutout in the
25	Q Are you saying that are you saying that's a	²⁵ middle of it that fits over the driveshaft, right?
	Page 292	Page 294
	Page 292	rage 274
1	"yes" to my question?	¹ A That's right.
1 2		
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22 (Pages 291 to 294)

	Page 295	Page 297
1	BY MR. ABRAMIC:	¹ correct?
2	Q So to attach a blade to a rotor, a user first	² A Yes, I see.
3	has to set the blade on the mounting plate, correct? So	³ Q And it states there, "to avoid accidental
4	that the hole in the blade goes over the driveshaft, right?	4 misplacement, both directions of turning use individual
5	A Yes.	⁵ distances between these knobs," right?
6	Q And then the knobs of the blade sit down in the	6 A Yes.
7	holes, like you just said, right?	7 Q And so if we go back to the first photo, it's
8	A Yes.	⁸ talking about the knobs that are on the blade there, right?
9	Q And that's shown in the second photo on figure	9 A Yes.
10	25, right?	¹⁰ Q Okay. And so what the manual is saying is for a
11	A Second photo. Yes, I mean, it's hard to tell,	¹¹ clockwise blade, the distance between those two knobs is
12	but, yes, the idea is you put the driveshaft through the	¹² going to be different than the distance between the two
13	hole in the blade and the knobs are sitting engaged with	¹³ knobs on a counterclockwise blade, right?
14	the holes.	14 A That's correct. The radial distance along
15	Q And then after the blade is set on that mounting	¹⁵ along the long axis of the blade itself, yes.
16	plate, as shown in the second photo there, a user takes an	¹⁶ Q Okay. And so because the knobs have to fit into
17	elastic O-ring, hooks it on one wing, and then stretches it	¹⁷ the holes on the mounting plate, the holes for a clockwise
18	over and connects it to the other wing on the mounting	¹⁸ rotor will match up exactly, in terms of distance apart
19	plate, correct?	¹⁹ from each other with the distance between the knobs on a
20	A That's correct.	²⁰ clockwise blade, correct?
21	Q And so those O-rings are used to secure the	²¹ A I think that's what the manual says.
22	blade, correct?	²² Q And the same would be true for the
23	A Together with the other elements of the	²³ counterclockwise blade, right?
24	mechanisms that you've just been describing, the O-rings	²⁴ A Correct.
25	provide the last bit of locking that is necessary to make	²⁵ Q And the manual doesn't say exactly what that
	Page 296	Page 298
1	sure that those blades are properly attached.	¹ distance is, correct?
2	Q And that's shown in the third picture here,	2 A I don't recall that it says that. It just says
3	correct?	³ they are individual distances, meaning they are different,
4	A Yes.	 but it doesn't specify whether it's 5 millimeters or 10
5	Q Let's talk about those O-rings very briefly.	⁵ millimeters.
6	It's your understanding that the O-rings are elastic and	⁶ Q Okay. So that means that if you take a blade
7	made of rubber, correct?	7 and you drop it or set it on the wrong rotor, the knobs
8	A That's right.	 are not going to line up with the holes on the mounting
9	Q And they are essentially like rubber bands?	⁹ plate, correct?
10	A Pretty much. Maybe a little bit stiffer than a	10 A That's my understanding.
11	normal rubber band, but yes.	11 Q And so then that blade isn't going to sit down
12	Q And it's your understanding, based on the	¹² flush with the mounting plate in that instance, correct?
13	Microdrones manual, that those O-rings are separate?	¹³ A If the knobs are not aligned with the holes,
14	A They are attached as a separate component,	¹⁴ then, yes, you are correct. There will be an inability for
15	that's right.	¹⁵ those knobs to penetrate through the mounting plate, and
16	Q And would you agree that Microdrones tells its	 therefore, it won't sit properly attached.
17	users to install two O-rings on each blade, correct?	¹⁷ Q Okay. Now, you'd agree that if you put a
18	A I agree with that characterization of what the	 ¹⁸ clockwise blade on a counterclockwise motor, there might be
19	manual says.	¹⁹ some overlap between the holes and the knobs, correct?
20	Q Okay. So let's turn to this issue that we were	²⁰ A I think that would depend entirely on the
21	talking about, accidental blade misplacement, okay?	²¹ distances that one chooses, but I would imagine a
22	A Uh-huh.	²² well-designed drone would have chosen distances that are
23	Q If you go back to page 27 in the Microdrones	 ²³ significantly different, so that situation that you're
24	manual, you can see that it describes a feature for helping	 ²⁴ discussing does not occur.
	a drone user avoid accidental misplacement of a blade,	²⁵ Q Okay. So you're saying if someone was going to
25	a di one user avoid accidental inisplacement or a blade.	

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23 (Pages 295 to 298)

	Page 299	Page 301
1	design a drone that way, they would make sure that the two	¹ Q And I know you're not going to be able to tell
2	holes are separate enough to where there wouldn't be	² me exact distances here, but just by eyeballing it, would
3	overlap if you misplaced the wrong blade, right?	³ you agree that the diameter of the hole in the mounting
4	A Well, there wouldn't be significant overlap. I	⁴ plate here is let me ask that question a different way.
5	mean, you want to make sure, since the manual tells you	⁵ The length of a line that I described from the
6	that you're trying to avoid accidental misplacement by the	⁶ shaft to the edge of the mounting plate isn't substantially
7	individual distances of the knob, you'll try to make sure	7 greater than the diameter of the hole, correct?
8	that you cannot accidentally misplace. So therefore, the	⁸ A I'd have to say it's a terrible picture, so it's
9	overlap has to be either minimal or nonexistent. Yes.	⁹ really quite hard to tell exactly, you know, where the
10	Q Sure. But you would agree that we don't have	¹⁰ circle where the actual intersection with the top
11	enough information from the Microdrones reference itself	¹¹ surface of the mounting plate starts and ends, and what's
12	concerning the distances between the holes on a clockwise	¹² inside and what's outside.
13	mounting plate versus a counterclockwise mounting plate to	¹³ Q So you can't tell, right?
14	know whether or not, if you misplaced the blade, there	¹⁴ A It's really hard, yes.
15	would be no overlap between the knobs and the holes,	¹⁵ Q But you would agree that at least this circle
16	correct?	¹⁶ for this particular mounting plate appears to be kind of in
17	A My recollection I mean, I would have to read	¹⁷ the middle of that line that we just described, right?
18	through the manual again. I mean, I read it a few times,	¹⁸ A It appears to be, in that picture, yes.
19	but I don't think it specifies the individual distances or	¹⁹ Q Can we look at figure 25 again.
20	whether or not there is an overlap or not. My guess is	²⁰ MR. ABRAMIC: And back out, James.
21	somebody who designs drones would have tried to avoid that	²¹ BY MR. ABRAMIC:
22	overlap.	22 Q I want to draw your attention to the bottom two
23	Q Okay. Now, in order to avoid that overlap on	²³ photographs.
24	this device so the amount of area that we're working	24 A I can see that.
25	with here, and we can leave this figure up, and this is the	²⁵ Q Do you see those? Okay. So you would agree
	Page 300	Page 302
1	first photo, figure 25, correct?	¹ with me that the bottom photograph in Microdrones, the on
2	A Correct.	² with the big green check mark, do you see that?
3	Q So what we are talking about here is this we	3 A Yes.
4	are going to look at this hole right here, one of the holes	⁴ Q That shows a correctly installed blade, is that
5	on the mounting plate. Do you see that one that I'm kind	⁵ right?
6	of pointing to? You might have to look up on the screen	⁶ A I think that's what the manual intends to show,
7	behind you.	⁷ yes.
8	A Lease where you've mainting on this someon too	⁸ Q All right. And you would also agree that the
	A I see where you're pointing on this screen, too.	
9	Q So now what we are talking about is designing	⁹ use of that big green check mark is an indicator to the
9 10	Q So now what we are talking about is designing the mounting plate, so that you wouldn't have overlap	 reader of the manual that the photo shows a properly
9 10 11	Q So now what we are talking about is designing the mounting plate, so that you wouldn't have overlap between the holes, correct? But in order to do that, we	 reader of the manual that the photo shows a properly installed blade, correct?
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 9 10 11 12 13 14 15 16 17 18 19 20 21 22 	 Q So now what we are talking about is designing the mounting plate, so that you wouldn't have overlap between the holes, correct? But in order to do that, we are talking about the distance on the mounting plate from here, where the mounting plate touches the shaft, to the edge of the mounting plate. A straight line from the shaft to the edge of the mounting plate over that hole. Can you envision that line that I'm describing? A Yes, I can see what you're what you're trying to do. Q So in order to make sure that there is no overlap between the holes, you would have to have one hole 	 reader of the manual that the photo shows a properly installed blade, correct? A Yes, I would agree with that, uh-huh. Q And you'd also agree that in that photograph, the last one with the big green check mark, you'd agree that the blade appears to be resting flush with the mounting plate, correct? A I do agree, yes. Q And there is a big green arrow that's pointing at the location on that photo where the blade is resting flush with the mounting plate, correct? A That's correct. There is no gap or there appears to be no gap in that picture between the bottom of
9 10 11 12 13 14 15 16 17 18 19 20 21	 Q So now what we are talking about is designing the mounting plate, so that you wouldn't have overlap between the holes, correct? But in order to do that, we are talking about the distance on the mounting plate from here, where the mounting plate touches the shaft, to the edge of the mounting plate. A straight line from the shaft to the edge of the mounting plate over that hole. Can you envision that line that I'm describing? A Yes, I can see what you're what you're trying to do. Q So in order to make sure that there is no overlap between the holes, you would have to have one hole on a clockwise plate that doesn't overlap at all with the 	 reader of the manual that the photo shows a properly reader of the manual that the photo shows a properly installed blade, correct? A Yes, I would agree with that, uh-huh. Q And you'd also agree that in that photograph, the last one with the big green check mark, you'd agree that the blade appears to be resting flush with the mounting plate, correct? A I do agree, yes. Q And there is a big green arrow that's pointing at the location on that photo where the blade is resting flush with the mounting plate, correct? A That's correct. There is no gap or there appears to be no gap in that picture between the bottom of the blade and the top of the mounting plate.
 9 10 11 12 13 14 15 16 17 18 19 20 21 22 	 Q So now what we are talking about is designing the mounting plate, so that you wouldn't have overlap between the holes, correct? But in order to do that, we are talking about the distance on the mounting plate from here, where the mounting plate touches the shaft, to the edge of the mounting plate. A straight line from the shaft to the edge of the mounting plate over that hole. Can you envision that line that I'm describing? A Yes, I can see what you're what you're trying to do. Q So in order to make sure that there is no overlap between the holes, you would have to have one hole on a clockwise plate that doesn't overlap at all with the hole on the counterclockwise plate, correct? 	 reader of the manual that the photo shows a properly installed blade, correct? A Yes, I would agree with that, uh-huh. Q And you'd also agree that in that photograph, the last one with the big green check mark, you'd agree that the blade appears to be resting flush with the mounting plate, correct? A I do agree, yes. Q And there is a big green arrow that's pointing at the location on that photo where the blade is resting flush with the mounting plate, correct? A That's correct. There is no gap or there appears to be no gap in that picture between the bottom of

²⁰²⁻³⁴⁷⁻³⁷⁰⁰ SZ DJI v. Autel IPR2019-00846 Ace-Federal Reporters, Inc.

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	Page 303	Page 305
1	on it?	¹ because the pitch of the blades in both photos is the same,
2	A Sure.	² correct?
3	Q You would agree that the use of the big red X is	³ A That's correct. Well, the sentence the
4	an indicator to the reader of the manual that this photo	⁴ specific sentence where I say that these figures do not
5	shows a blade that is not properly installed, correct?	⁵ show the wrong blade being attached to the wrong motor,
6	A I would say that's the case, yes.	⁶ that's where I'm using those angles, yes.
7	Q And you would also agree that in this photo with	7 Q Right. So in the let's look at the bottom
8	the big red X, the blade is not sitting flush with the	⁸ picture there. That's a properly installed blade, right?
9	mounting plate, right?	⁹ A That's correct.
10	A I can see a gap between the bottom of the blade	¹⁰ Q And based on the pitch of the blade in that
11	and the top of the mounting plate.	¹¹ picture, you would agree that it appears that that blade is
12	Q And again, there is a big green arrow pointing	¹² a clockwise blade, correct? I'm sorry, counterclockwise?
13	to where the blade is not flush with the mounting plate,	¹³ A I would say counterclockwise.
14	right?	¹⁴ Q Counterclockwise, because the lead edge is going
15	A Correct.	¹⁵ to be higher if it's rotating counterclockwise, right?
16	Q Now, you understand that Dr. Reinholtz has	¹⁶ A That's correct.
17	testified that this fourth photo here, with the big red X,	¹⁷ Q So we assume that the blade in the fifth picture
18	is depicting a blade installed on the wrong rotor, correct?	¹⁸ is a counterclockwise blade, correct?
19	A I don't remember the exact wording, but, yes, I	¹⁹ A It seems like the blade in both pictures is a
20	think he has testified to that effect.	²⁰ counterclockwise blade, yes.
21	Q Okay. And you addressed this issue. We are	²¹ Q Because they have the same pitch, right?
22	going to turn back to your witness statement. We are going	A To the extent that you can see from that cropped
23	to go to question and answer 111 in your witness statement,	²³ out picture, yes.
24	if you can turn there.	²⁴ Q But without the blades in those pictures,
25	A Yes, I'm there.	²⁵ without the mounting plates in those pictures I'm sorry,
	Page 304	Page 306
	5	
1	Q I want to direct you to one particular sentence	¹ without the blades, you can't tell whether or not a rotor
1 2	Q I want to direct you to one particular sentence	
		¹ without the blades, you can't tell whether or not a rotor
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1	it was not uncommon for UAVs to use O-rings with their	1	component that helps secure the blade. If for some
2	connection mechanism, is that right?	2	reason and this is coming from the fact that I have
3	A I think by that point in time, there were many	3	opined that the shaft lock portion and blade lock portion
4	different types of mechanisms to attach propeller blades,	4	of the claims of the patent are construed by Autel as being
5	O-rings being one of them.	5	the only pieces that are needed.
6	Q You would have been familiar at that time with	6	So this particular question just goes back to
7	drones that used O-rings for their connection mechanism	7	say, if the proper understanding is that only those two
8	other than Microdrones?	8	pieces, the shaft lock portion and the blade lock portion,
9	A I don't have a specific recollection myself.	9	are needed to secure the blade to the driveshaft, then one
10	Yeah, I'm trying to remember. We've had many drones in the	10	skilled in the art could have very quickly said, instead of
11	lab that I don't recall, to be honest, that far back.	11	putting the O-rings over, let me just build them straight
12	Q You would agree that O-rings can sometimes be	12	into the blade, or to the mounting plate. That's what I
13	lost by a UAV user?	13	believe that question is asking and answering.
14	A Yes, during the process of installation and	14	Q Okay. And so you're saying that a person of
15	de-installation, they can fall off in the field.	15	ordinary skill in the art could have attached an O-ring to
16	Q You'd also agree that sometimes O-rings can	16	the blade to make it integral, right?
17	break?	17	A They could have, yes.
18	A Yes, of course, like any other structural	18	Q And you're also saying they would have. They
19	component.	19	would have been motivated to do so, correct?
20	Q And if a user has a UAV that uses an O-ring for	20	A There may be some rationale by which integrating
21	its attachment mechanism and the O-ring is lost or broken,	21	those O-rings into the either the mounting plate or the
22	if the user wants to keep flying that UAV, he or she needs	22	blade could be beneficial.
23	a new O-ring, right?	23	Q You're saying there may be some rationale, but
24	A That's correct, yes. Normally, the person	24	are you saying that a person of ordinary skill in the art
25	flying these drones will have a tool box with him or her.	25	would have been motivated at the time to attach an O-ring
			, , , , , , , , , , , , , , , , , , ,
	Page 308		Page 310
1	And normally, you will carry some additional components,	1	to make it integral to Microdrones?
2	including O-rings.	2	A I think these attachment mechanisms, as a
3	Q Because sometimes a user might have to replace	3	convenience, to be able to attach the propeller blade to
4	an O-ring while, you know, out in the field, while they are	4	the shaft more quickly is often useful, but is not the only
5	operating the drone, correct?	5	design driver in a drone, so some people may have different
6	A If you were to lose one, and you wanted to keep	6	priorities.
7	flying the drone, then yes.	7	Q So it's your opinion that a person of ordinary
8	Q And so for that reason, they might carry extra	8	skill in the art would have decided to attach an O-ring to
9	O-rings, right?	9	the blade in Microdrones, correct?
10	A Yes, as you would carry screwdrivers, extra	10	A I'm saying that somebody could. I wouldn't say
11	batteries, maybe other pieces, blades, et cetera, et	11	would.
12	cetera, yes.	12	Q You're not saying they would?
13	Q Can we turn to page or I'm sorry, question	13	A I'm not saying that all the time, they would
14	and answer 103 of your witness statement.	14	have done that, right. I'm saying they could have thought
15	A Yes, I'm here.	15	of doing it, if they thought it was beneficial to the
16	Q So we talked about the fact that in Microdrones,	16	particular drone and the customer that will use that drone.
17	the O-rings are separate components, right?	17	Q Okay. Let's go to question and answer 105 in
18	A Yes.	18	your witness statement.
19	Q And in your answer to 103, would you agree that	19	A Uh-huh.
20	you're opining here that a person of ordinary skill in the	20	Q And in this question and answer, would you agree
21	art would have found it obvious to integrate an O-ring into	21	with me that you are talking about different ways that a
	the blade or driveshaft of Microdrones, so that it was an	22	person of ordinary skill in the art might accomplish making
22		1	
22 23	integral part of the UAV?	23	an O-ring integral with the blade or shaft portion of
	integral part of the UAV? A Well, this is part of a longer set of questions,	23 24	an O-ring integral with the blade or shaft portion of Microdrones?
23			

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26 (Pages 307 to 310)

	Page 311		Page 313
1	happen.	1	propeller with a glued O-ring already, and do that repair
2	Q And you mentioned forming a groove, press	2	that way.
3	fitting, fusing, or gluing one component to another, is	3	Q Then you'd be bringing another glued propeller,
4	that right?	4	right?
5	A I believe that's yes, some of the methods	5	A Well, another propeller that's ready to be
6	that I describe in that answer, yes.	6	assembled with the drone, yes.
7	Q Okay. So let's just talk about one of those	7	Q Would you agree with me that you've never
8	examples. So let's say you've got a Microdrones UAV where	8	actually designed a propeller locking mechanism like those
9	the O-rings have been glued to the blades.	9	that are at issue in this case?
10	A Glued?	10	A In my professional career, you mean?
11	Q Glued to the blades, because that's one of the	11	Q Correct.
12	examples you used, right?	12	A Yeah, I don't think I have done that. I've used
13	A Yes, uh-huh.	13	different propeller blade locking mechanisms in different
14	Q And that user is out in a remote location	14	drone projects that I worked on at Stanford, but typically,
15	getting ready to fly the Microdrones drone that has the	15	these have been off-the-shelf components.
16	O-rings glued to the blade, right?	16	Q I want to change subjects here. If you recall,
17	A Okay.	17	we had talked about your invalidity opinions being based on
18	Q And they go to stretch the O-ring over the wings	18	three different primary references, and one of those is the
19	on the mounting plate and the O-ring breaks, okay?	19	Sasaki publication. Do you remember that?
20	A Okay.	20	A Yes.
21	Q In that instance, they would need a new O-ring,	21	Q And that is Exhibit RX-0037.
22	right, in order to fly?	22	A Yes.
23	A That's correct, yes.	23	Q Would you agree that is the Sasaki publication?
24	Q So they would have to carry additional O-rings	24	A That is it.
25	for that possibility, right?	25	Q And your opinions based on Sasaki are
	Page 312		Page 314
1	A Or additional propellers with the O-rings	1	obviousness opinions, correct?
2	already formed or glued to them, yes.	2	A Right, correct.
3	Q And if they wanted to make it integral with the	3	Q And you would agree that Sasaki was published on
4	blade while they were out in the field, they would have to	4	January 14th, 1991?
5	have a glue gun with them, right?	5	A I believe that's the case, yes.
6	A If the specific methodology is the glue, then,	6	Q And you would agree that Sasaki relates to a
7	yes, you would have to do that. But probably when you're	7	UAV, correct?
8	flying out there, if that's happening, you could design it	8	A Yes, a flying toy UAV, uh-huh.
9	so you just put the O-rings the way the original manual	9	Q A flying toy is a UAV, right?
10	specified, right?	10	A I think I make a slight distinction, right? I
11	Q Okay. So at that point, you'd just say, forget	11	don't think the word "UAV" is mentioned in Sasaki's patent,
12	the integral part of it, let's put on a separate O-ring?	12	and the words "flying toy" are.
13	A I think it depends on what is it you're doing.	13	Q If we could go to RX-0037.007.
14	Do you have a time critical thing you want to do with the	14	A Yes.
15	drone, and you cannot go back to the lab or get another	15	Q You see there on that page, I want to direct you
16	propeller, or are you right there trying to do something	16	to the portion with the heading that says, "problem to be
17	that requires that you, in the field, perform a repair,	17	solved by the present invention." Do you see that?
18	essentially.	18	A That's at the bottom of around line 40 of
19	Q Can you imagine an instance where a Microdrones	19	column 1, yes.
20	user with the glued on prop that we're describing, the	20	Q And below that heading, at the bottom of the
21	O-ring I'm sorry, the glued on O-ring that we're	21	page, it refers to a figure 8. Do you see that?
22	describing, the O-ring breaks where a user would decide to	22	A It does refer to figure 8, yes.
23	glue it on out in the field?	23	Q And here Sasaki describes a blade attachment
24 25	A It just seems cumbersome, right. But you could	24	mechanism. Would you agree with that?
	do it. But I would imagine that I would bring another	25	A In figure 8, you mean?

²⁰²⁻³⁴⁷⁻³⁷⁰⁰ SZ DJI v. Autel IPR2019-00846 Ace-Federal Reporters, Inc.

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	Page 315	Page 317
1	Q Yes, figure 8.	¹ propellers essentially would come loose.
2	A Yes. This is a you know, the problem that	² Q And you don't want propellers coming loose when
3	Sasaki has that he is trying to solve, so, yes, that's a	³ you're flying a drone, is that correct?
4	blade attaching mechanism.	⁴ A No, I don't think we want that.
5	MR. ABRAMIC: Could we pull up figure 8?	⁵ Q Now, Sasaki explains that this type of design
6	BY MR. ABRAMIC:	⁶ has a problem. Would you agree with me?
7	Q And this mechanism described in figure 8 is a	7 A Yes.
8	simple screw-on connection mechanism, correct?	⁸ Q Because it causes the blades to overtighten,
9	A Yes, it's a directional screw on the shaft and a	9 right?
10	directional nut buried in the propeller hub, as you can see	¹⁰ A That's what he mentions.
11	there by number 8.	11 Q So a user flies the drone, gets done flying the
12	Q So the top of the shaft there, which is	¹² drone, and the blades are hard to get off, right?
13	designated with the number 73, has threads on it, is that	¹³ A Yes, you have to exert more force or torque to
14	right?	¹⁴ remove them if you need to store the drone.
15	A That's right.	¹⁵ Q So let's talk about, now you've got a UAV like
16	Q And then there is a nut buried in the propeller	¹⁶ that that we're talking about with Sasaki, that has this
17	that has threads that allow you to just screw the prop onto	¹⁷ threaded attachment mechanism. And let's say it has
18	the shaft, right?	¹⁸ threads in one direction for the clockwise blade, threads
19	A Yes, there are right-turning or left-turning	¹⁹ in the other direction for a counterclockwise blade, okay?
20	screws, essentially, and thread.	20 A Yes.
21	Q The way you screw it on is spinning it multiple	²¹ Q And let's say, for example, that a user tries to
22	revolutions, just like you're putting a nut on a bolt,	²² install a clockwise blade on a counterclockwise shaft,
23	correct?	²³ okay?
24	A Essentially, yes.	²⁴ A Okay. So the blade on the wrong shaft,
25	Q Now, when you're using this type of connection	²⁵ essentially.
	Page 316	Page 318
1	mechanism with the UAV that has both clockwise and	¹ Q Blade on the wrong shaft, right. So let's just
2	mechanism with the UAV that has both clockwise and counterclockwise rotating blades, you have to make sure	1 Q Blade on the wrong shaft, right. So let's just 2 say a right-threaded nut onto a left-threaded shaft?
2 3	mechanism with the UAV that has both clockwise and counterclockwise rotating blades, you have to make sure that the threads for the clockwise blade are opposite the	 Q Blade on the wrong shaft, right. So let's just say a right-threaded nut onto a left-threaded shaft? A Fair enough.
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²⁰²⁻³⁴⁷⁻³⁷⁰⁰ SZ DJI v. Autel IPR2019-00846 Ace-Federal Reporters, Inc.

²⁰²⁻⁷³⁷⁻³⁶³⁸ Autel Ex. 2005, p.14

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	Page 319	Page 321
1	hand tighten a blade on the wrong shaft, correct?	¹ Q And we'll talk about those two particular
2	A And the shaft threads are still made out of	² references in a minute, but let's first turn to the third
3	metal, or what's the hypothetical?	³ primary reference that we talked about, the Zhou patent?
4	Q Yes, the shaft.	4 A Okay.
5	A So the shaft is metal, the nut is plastic?	⁵ Q And this is Exhibit RX-0038.
6	Q Correct.	⁶ A I have it in front of me.
7	A It is possible that you could screw that in and	7 Q You pronounce it Zhou?
8	destroy the threads that were in the original plastic nut	⁸ A That's what I've been told, so I've been trying
9	and	⁹ to pronounce it Zhou, yes.
10	Q Is it possible that in that scenario, you could	¹⁰ Q And this reference, you would agree, discloses a
11	screw the wrong blade on the shaft and have it attach?	¹¹ UAV with four propeller blades?
12	A You could probably do it, but I don't think it	¹² A Correct.
13	will be securely attached, because you would have stripped	¹³ Q And Zhou, other than stating that the propeller
14	the threads of the original plastic nut.	¹⁴ blades are mounted to the motors, you would agree with me
15	Q So you're saying it wouldn't be securely	¹⁵ that Zhou provides no description of how the blades are
16	attached?	¹⁶ mounted to the motors, wouldn't you?
17	A Well, it's very hard to tell, but obviously, as	¹⁷ A I think when you read the patent, there is no
18	you screw a metal piece into a plastic thread in the	¹⁸ specific detail. We know they are mounted, because it's
19	opposite thread, you're going to strip all those threads	¹⁹ obviously a UAV, and it has to fly. And I think it also
20	relatively quickly. And then there may not be any force	²⁰ speaks about the different directions of rotation.
21	keeping the propeller together with the shaft.	²¹ Q So all we know about the connection of the
22	Q So you're saying if I did that on a drone and	²² blades to the shaft is that they are mounted, correct?
23	held the drone upside down, the blade would fall off?	²³ A They are mounted and rotated in different
24	A Possibly, yes.	²⁴ directions, yes.
25	Q Possibly?	²⁵ Q And you would agree that Zhou, the patent,
	Page 320	Page 322
		1 identifier and need to immense an anadifier and some of the
1	A You're asking a hypothetical question. I don't	¹ identifies no need to improve or modify any aspect of the
2	know the details of the nut and the thread, but I think	² propeller attachment mechanism?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 know the details of the nut and the thread, but I think you'll strip it off, and most likely, it will fall off, yes. Q Do you think it's possible that it would stay on? A It is always possible that it may stay on, but probably not with enough force to then be able to spin that propeller that produces a lift force that would then sort of rip it apart from the actual shaft, because there is no longer the threading that's holding that propeller in place. Q Well, it wouldn't be producing lift force in that instance. It would be producing a downward force, wouldn't it? A Depending on which direction you rotated the motors, right. Yeah. I mean, if it's rotating in the original direction, and then you misplace that blade in the manner in which you describe, you would definitely produce a negative lift. But as we discussed earlier, you would not be able to fly that drone. 	 propeller attachment mechanism? A I don't recall it saying anything that leads somebody to believe that, but what I'm relying on in this particular argument is the fact that somebody who sees Zhou's patent, and wants to have the capability of releasably attaching the blades, will look to another reference in order to combine those two and achieve the result desired. Q I'd like a yes or no answer to this next question. A Okay. Q And you'd agree that Zhou identifies no need to improve or modify any aspect of the propeller attachment mechanism, correct? A I'd say that's a yes. Q And you opine that a person of ordinary skill in the art would combine Zhou with Philistine or EP 067, right? Q And those are the same two references that you
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²⁰²⁻³⁴⁷⁻³⁷⁰⁰ SZ DJI v. Autel IPR2019-00846

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²⁰²⁻⁷³⁷⁻³⁶³⁸ Autel Ex. 2005, p.15

	Page 323	Page 325
1	right?	¹ A That's correct.
2	A Sasaki well, we talked about UAV flying toy,	² Q And that just that adjusts the pitch of the
3	but with that distinction, yes, they do both talk about	³ blade along its X axis, right?
4	quadcopter-like devices.	4 A Along which axis?
5	Q And EP 067 and Philistine, they do not disclose	⁵ Q So it would be adjusting along the radial axis?
6	UAVs, correct?	⁶ A That's correct. I mean, the variable pitch
7	A You're correct. They are related in EP 067 to a	7 propeller, because of the different speeds that the boat
8	marine propeller type application and in Philistine	⁸ may go out, may need to adjust its angle of attack ever so
9	sorry.	⁹ slightly. So they are relatively small angles rotating
10	Q Go ahead.	¹⁰ about that axis 2 for the top blade in that figure.
11	A And in Philistine, they talk about attachment	11 Q And the radial axes are designated with the
12	mechanisms in the actual helicopter.	¹² lines that are kind of running through the center of the
13	Q Would it be fair to say that EP 067 and	¹³ blades, right?
14	Philistine describe twist lock attachment mechanisms?	14 A The dashed dotted lines the three dashed
15	A Yes, I would say that's true.	¹⁵ dotted lines running 120 degrees apart that meet at the
16	Q Okay. Let's talk about EP 067 first.	¹⁶ center of the picture.
17	A Uh-huh.	17 Q Now, when the boat throttle is opened up, that
18	Q And this is RX-0039.	 18 causes the hub to spin around, correct?
19	A I have it.	¹⁹ A Correct.
20	Q Got it? Thank you. And you would agree that	²⁰ Q So I know this might sound like a silly
21	this is what you referred to in your testimony as EP 067?	²¹ question.
22	A Yes, this is the what I refer to as the EP	22 A Go ahead, please.
23	067 patent.	²³ Q For the record, opening up the boat throttle
24	Q Okay. And this is a publication of a European	²⁴ doesn't cause those blades to rotate and spin around their
25	patent application filed in 1998?	²⁵ radial axes, correct?
	Page 324	Page 326
1	A Correct.	¹ A To rotate around the radial axis?
2	Q And you'd agree that EP 067 relates to a	² Q Correct.
	mechanism for attaching motorboat propeller blades to a	
3	incentation for attaching motorootal properter blades to a	³ A It would be they'll rotate about the axis
3 4	hub, correct?	 that's perpendicular to the screen at the center, 21 there.
		If it would be and it totale about the axis
4	hub, correct?	 that's perpendicular to the screen at the center, 21 there.
4 5	hub, correct? A That is correct.	 that's perpendicular to the screen at the center, 21 there. Q Right. So the hub spins when you turn the boat
4 5 6	hub, correct?A That is correct.Q Can we take a look at figure 5 that's on	 that's perpendicular to the screen at the center, 21 there. Q Right. So the hub spins when you turn the boat motor on, right?
4 5 6 7	hub, correct?A That is correct.Q Can we take a look at figure 5 that's onRX-0039.0007. Do you see figure 5?	 that's perpendicular to the screen at the center, 21 there. Q Right. So the hub spins when you turn the boat motor on, right? A Yes, that's how a boat works. Q All right. You would agree with me that there
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4 5 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 hub, correct? A That is correct. Q Can we take a look at figure 5 that's on RX-0039.0007. Do you see figure 5? A I can see it. Yes, I have it in front of me. Q And you would agree here, that on this figure, it shows three boat propeller blades? A Yes, this looks like an axial view from looking from behind the boat, towards the front. And three propeller blades at 120-degree intervals. Q And those blades are connected to a hub that's designated with the number 20 on this figure, right? A Yes, correct. Q Now, after the blades are attached to the hub, EP 067 explains that an operator can adjust the pitch of the blades, correct? A Yes, both propellers sometimes have what's 	 4 that's perpendicular to the screen at the center, 21 there. 5 Q Right. So the hub spins when you turn the boat 6 motor on, right? 7 A Yes, that's how a boat works. 8 Q All right. You would agree with me that there 9 is no discussion in EP 067 regarding blades being clockwise 10 or counterclockwise rotating blades, right? 11 A That's correct, there are no specifics about 12 that. 13 Q So let's briefly talk about the connection 14 mechanism in EP 067. Let's take a look at figures 1 and 3, 15 and you'll find that bottom page is designated with a 0006. 16 Do you see that? 17 A I have it. 18 Q So figure 1 shows the upper side of a mounting 19 plate that is attached to the hub we were talking about, 20 correct?
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²⁰²⁻³⁴⁷⁻³⁷⁰⁰ SZ DJI v. Autel IPR2019-00846 Ace-Federal Reporters, Inc.

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1	to attach one of those boat propeller blades, the	1 A Ido.
2	components in figures 1 and 3 interlock to connect the	² Q And would you say that RDX-0001.60 is depicting
3	blade to the hub, right?	 that mirror image configuration?
4	A That's correct. In figure 1, you can see	4 A It was intended to, yes.
5	sometimes it's hard to interpret these drawings, but the	⁵ Q But you would agree with me that that mirror
6	dash lines mean lines that are not visible from this point	⁶ image configuration is not in EP 067, correct?
7	of view. So you have these two claws that are coming out.	7 A That's correct. And my statement is that a
8	And then in figure 3, you see the two protrusions. You	⁸ person skilled in the art will be inclined to mirror image
9	align them properly, rotate them, and lock them into place,	⁹ it, in order to attach it to something that rotates in the
10	yes.	¹⁰ opposite direction.
11	Q So those two pieces fit together, right?	¹¹ Q Just for clarity, though, and I want a yes or no
12	A Those two pieces fit together. They are meant	¹² on this one, you would agree with me that that mirror image
13	to.	¹³ on RDX-0001.60 is not in EP 067, correct?
14	Q But you would agree with me that EP 067 does not	¹⁴ A I would have to agree with that.
15	describe different configurations for its locking	¹⁵ Q Could we go to Q-A 158?
16	mechanism, based on the direction of the blade's rotation,	16 A 158?
17	correct?	¹⁷ Q 158, yes. Do you see the sentence that says, "a
18	A I do agree that specifically, the patent doesn't	18 person having ordinary skill in the art could use a mirror
19	say anything. I do go on in my argument to talk about the	¹⁹ image configuration." Do you see that?
20	fact that if the same mechanism were applied to the	²⁰ A I see that.
21	propellers of a UAV, somebody skilled in the art would	²¹ Q You would agree with me, and I want a yes or no
22	think it obvious to reverse or mirror image that mechanism,	²² on this one, that that mirror image configuration that
23	in order to make it work for something that only allows	²³ you're referring to is not actually disclosed in EP 067,
24	certain blades to be placed in certain motors.	²⁴ correct?
25	Q So I'm asking for a yes or no in response to	²⁵ A It's not specifically stated. I'm sorry. Yes.
	Page 328	Page 330
		2490 000
1	this question.	¹ Q Can we go to Q and A 164, please? If you look
1 2	this question. A Sure.	 Q Can we go to Q and A 164, please? If you look at the sentence that says, "figure 1 of EP 067, as shown
2 3	this question.A Sure.Q You would agree with me that EP 067 does not	 Q Can we go to Q and A 164, please? If you look at the sentence that says, "figure 1 of EP 067, as shown left, RDX-0001.63, depicts the position of the stops for
2 3 4	this question.A Sure.Q You would agree with me that EP 067 does not describe different configurations for its locking	 Q Can we go to Q and A 164, please? If you look at the sentence that says, "figure 1 of EP 067, as shown left, RDX-0001.63, depicts the position of the stops for the clockwise rotating driveshaft, modified figure 1 of EP
2 3 4 5	this question. A Sure. Q You would agree with me that EP 067 does not describe different configurations for its locking mechanism, based on the direction of the blade's rotation,	1QCan we go to Q and A 164, please? If you look2at the sentence that says, "figure 1 of EP 067, as shown3left, RDX-0001.63, depicts the position of the stops for4the clockwise rotating driveshaft, modified figure 1 of EP5067, as shown right in RDX-0001.63." Do you see that
2 3 4 5 6	this question. A Sure. Q You would agree with me that EP 067 does not describe different configurations for its locking mechanism, based on the direction of the blade's rotation, correct?	 Q Can we go to Q and A 164, please? If you look at the sentence that says, "figure 1 of EP 067, as shown left, RDX-0001.63, depicts the position of the stops for the clockwise rotating driveshaft, modified figure 1 of EP 067, as shown right in RDX-0001.63." Do you see that reference to modified figure 1?
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²⁰²⁻³⁴⁷⁻³⁷⁰⁰ SZ DJI v. Autel IPR2019-00846 Ace-Federal Reporters, Inc.

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	Page 331	Page 333
1	AFTERNOON SESSION	¹ BY MR. ABRAMIC:
2	(1:32 p.m.)	² Q Dr. Alonso, are you familiar with the Phantom 3
3	Whereupon,	³ DJI product?
4	JUAN J. ALONSO, Ph.D.,	4 A I have not examined the Phantom 3, so, no, I'm
5	the witness on the stand at the time of recess, having been	⁵ not very familiar with it at all.
6	previously duly sworn, was further examined and testified	⁶ Q Do you have any familiarity with it?
7	as follows:	7 A It is possible I've seen ads for it, or possibly
8	JUDGE BULLOCK: Back on the record. Please	 8 somebody in my department may be flying one, but I don't
9	proceed.	 ⁹ recall anything beyond that.
10	CROSS-EXAMINATION (RESUMED)	¹⁰ Q Okay.
11	BY MR. ABRAMIC:	11 MR. ABRAMIC: May I approach the witness, Your
12	Q Welcome back, Dr. Alonso.	12 Honor?
13	A Thank you.	¹³ JUDGE BULLOCK: Sure.
13	Q We were going to talk about the Philistine	14 BY MR. ABRAMIC:
15	reference before we broke for lunch. Do you recall that?	¹⁵ Q Dr. Alonso, you've been handed a physical
16	A I think so, yes.	 ¹⁶ exhibit, CPX-0018. Do you see that?
17	Q And there should be a copy of Philistine in your	17 A Yes.
18	cross-examination binder. It's RX-0040.	 18 Q And does that appear to you to be a drone?
19	A Yes, I have it in front of me.	 A It does appear to be a drone, yes.
20	Q Thank you. And Philistine generally relates to	20 Q And that appears to be a quadcopter?
21	a twist lock mount for positioning two things together, is	²¹ A It does.
22	that right?	22 Q And there are four rotors on there?
23	A That's correct.	²³ A Yes.
24	Q And if we could look at figures 1 and 2 in	24 Q And those four rotors are at the end of the four
25	Philistine. You would agree that those figures depict an	²⁵ arms there. Would you agree, if you look at the end of the
	Timistile. Tou would agree that mose figures depict an	a mis note. Would you agree, it you took at the end of the
	Page 332	Page 334
1	Page 332 embodiment of the twist lock mount, is that right?	Page 334 ¹ four arms there, there is some little plastic indicators
1 2		
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2	embodiment of the twist lock mount, is that right? A That's correct, the top and the bottom view.	 four arms there, there is some little plastic indicators that show the direction that the blade is supposed to
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²⁰²⁻³⁴⁷⁻³⁷⁰⁰ SZ DJI v. Autel IPR2019-00846

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	Page 335	Page 337
1	A There is.	¹ Q And I'm going to set the black one on there.
2	Q So that you can't actually get your finger into	² I'm spinning it to the right, and you would agree with me
3	the threaded area, right?	³ that it's attached on there, correct?
4	A That's correct.	4 A Well, you're spinning. I mean, you must have
5	Q But if you look in there, you can see they're	⁵ destroyed the threads on that the inside of that
6	threaded, right?	⁶ propeller.
7	A Yes, I can see they are threaded. It's hard for	7 Q Okay. But now it's on there, right? I'm
8	me to tell which direction they are threaded, but yes.	⁸ holding this upside down and the blade is not falling off,
9	Q Sure. Now, if you look at the blade on the top,	⁹ correct?
10	there is another indicator, much like the indicator that we	¹⁰ A That is correct. I wonder if you continue to
11	talked about on the arm of the device itself that show the	¹¹ turn it, so you attached it all the way, like you did with
12	direction that the blades are supposed to rotate?	¹² the other one, whether you further strip the propellers.
13	A There are two indicators. I think what they are	¹³ Q But you would agree with me it's attached,
14	indicating is the direction in which the blades are	¹⁴ correct?
15	supposed to lock, because it has a little lock symbol,	¹⁵ A Yes, it's probably not as rigidly attached as
16	rather than in the other one, you had a propeller symbol.	¹⁶ when you put it in the right place, but it's not falling
17	Q Okay. Thank you. And for two of the blades,	¹⁷ off, if that's what you're asking.
18	they share the same rotation. And for the other two, they	¹⁸ Q And when I spin the rotor, it spins the blade,
19	show the opposite rotation, is that right?	¹⁹ correct?
20	A That looks right, yes.	²⁰ A It is spinning the blade.
21	Q And then two of the blades have a silver cap on	²¹ MR. ABRAMIC: I have no further nothing on
22	the center, and two of the blades have a black cap,	the '013. Do you need me to leave this up here?
23	correct?	²³ JUDGE BULLOCK: If I could just clarify. Okay,
24	A That's correct.	²⁴ we were talking about the '184, right?
25	Q Okay.	²⁵ MR. ABRAMIC: Yes, so I just crossed him on the
	Page 336	Page 338
1	MR. ABRAMIC: Your Honor, may I approach the	¹ '184 patent.
1 2		
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2	MR. ABRAMIC: Your Honor, may I approach the witness, and ask some questions where we share the	 '184 patent. JUDGE BULLOCK: Right.
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33 (Pages 335 to 338)

	Page 339	Page 34
1	clockwise rotor blade from being attached to the	¹ way of attaching a propeller blade to the shaft of a motor,
2	counterclockwise driveshaft and vice versa. Do you recall	² because it would very easily come off.
3	that?	³ Q There are many ways you can attach things,
4	A I recall that, yes.	4 right?
5	Q In the context of the '184 patent, what does	⁵ A Sure.
6	"attachment" really mean?	⁶ Q I mean, Scotch tape?
7	A I think it's the solid connection between two	7 A That's one of them. Probably not a very good
8	pieces that restricts all six degrees of freedom, three	8 one.
9	translational, three rotational.	9 Q That's not what the '184 patent is talking
10	Q So if and how is that attachment achieved	¹⁰ about, is it?
11	between those components?	11 A Correct. It's discussing a very particular way
12	A I mean, we could go to the patent if you want.	¹² of attaching both pieces with the lug and the notches.
13	And look at the claims, but there is a shaft lock portion	13 Q Let take a look at I think it's question 111,
14	and a blade book portion which rotate relative to each	 you were asked about. This has to do with Microdrones.
15	other. And the knobs and the lugs of those respective	15 A Okay.
16	components engage to perform that locking function.	ri onuy.
17		
17	Q So A And that attachment I guess	unose rigures and are shown in the interest ones manual
18 19	A And that attachment, I guess.	
	Q So in the '184 patent, the concept that it's	ash you is, you were specifically ashed about the semence
20	getting at with "attachment" has to do with engagement of	²⁰ in the middle that says, "these figures do not show the ²¹ wrong blade being attached to the wrong rotor, as
21	the two pieces together?	wrong chude being underled to the wrong rotor, as
22	A I'd say more strongly than "engagement." It's	²² Dr. Reinholtz claims, and that is clear from the angle of
23	the restriction of relative motion between one piece and	²³ the blade in both figures."
24	the other of the UAV mechanisms.	²⁴ MR. ABRAMIC: So let's put those two figures up
25	Q But that's and that's achieved by having	²⁵ from page 27 of RX-36. It's actually going to be 10 pages
	Page 340	Page 34
1	pieces that are designed to engage?	¹ further, because it's the page 37. The two lowers.
2	A Correct. The lugs and the notches that I just	² BY MR. ABRAMIC:
3	mentioned.	³ Q So can you just explain what were you talking
4	Q In a threaded screw like this, what are the	4 about when you said that these figures do not show the
5	parts that are designed to engage?	⁵ wrong blade being attached to the wrong motor, and that i
6	A In the threaded screw, I mean, in the shaft, for	 ⁶ clear from the angle of the blade in both figures? What
7	example, of that drone that I just was shown before, you	 were you saying?
8	have a thread. And then on the propeller itself, you have	⁸ A I mean, the bottom figure shows a blade that is
9	another thread that's supposed to match. And then the	 ⁹ properly positioned into the mounting plate with the knob
10	action of the attachment is achieved by rotating one piece	¹⁰ and holes fully engaged. And you have the big fat green
11	relative to the other.	¹¹ check mark saying this is the way you're supposed to attac
12	Q And the one thread the thread on the screw	 that blade to that particular motor, right?
12	and the thread on the nut engage?	¹² that brace to that particular motor, fight? ¹³ On the very top, what you have is an image of a
13		on the very top, what you have to an image of a
14		
	are in contact with each other across the entire set of	F,
	threads, so there is no possibility of relative motion.	
16	Q So if I had a bolt with threads, and then just a	¹⁷ this is not what you're supposed to be doing. So it's
17	- •	¹⁸ essentially showing you how you do not attach the wrong
17 18	round hole that was ever so slightly different sized, and I	
17 18 19	round hole that was ever so slightly different sized, and I shoved it in, is there engagement between those threads and	¹⁹ blade into a particular motor, right.
17 18 19 20	round hole that was ever so slightly different sized, and I shoved it in, is there engagement between those threads and anything?	20 Q Does that upper figure show the wrong blade
17 18 19 20 21	round hole that was ever so slightly different sized, and I shoved it in, is there engagement between those threads and anything? A I wouldn't say so. You're probably destroying	 Q Does that upper figure show the wrong blade being attached to the wrong
17 18 19 20 21 22	round hole that was ever so slightly different sized, and I shoved it in, is there engagement between those threads and anything? A I wouldn't say so. You're probably destroying the plastic, and there is a little bit of force between	20QDoes that upper figure show the wrong blade21being attached to the wrong22AIt shows no attachment. There is a fairly big
17 18 19 20 21 22 23	round hole that was ever so slightly different sized, and I shoved it in, is there engagement between those threads and anything? A I wouldn't say so. You're probably destroying the plastic, and there is a little bit of force between those two components, but there is certainly not a lug or a	20QDoes that upper figure show the wrong blade21being attached to the wrong22AIt shows no attachment. There is a fairly big23gap in there. It's just showing a blade resting on the
17 18 19 20 21 22	round hole that was ever so slightly different sized, and I shoved it in, is there engagement between those threads and anything? A I wouldn't say so. You're probably destroying the plastic, and there is a little bit of force between	20QDoes that upper figure show the wrong blade21being attached to the wrong22AIt shows no attachment. There is a fairly big

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²⁰²⁻⁷³⁷⁻³⁶³⁸ Autel Ex. 2005, p.20

according to the manual? A Where attached, those knobs will go into the holes and match perfectly. And of course, you'll have to	1 2	Q So the blade has a hole, and it goes right on the shaft?
-	2	the shaft?
-		the shart;
	3	A Correct, yes.
put the two O-rings to perform the full attachment of the	4	Q So at that point, is the blade able to move
blade to the rotor assembly.	5	laterally?
Q So in your opinion, is the blade, the counter	6	A By laterally, in the plane of the blade?
these are counterclockwise blades in both of those	7	Q Yes.
pictures, I think you said?	8	A No, that shaft will constrain the motion in the
	9	X and Y direction, I would call it, in the plane of the
	10	blade.
counterclockwise.	11	Q So if there was some overlap, so to speak, that
Q So in your opinion, is the blade in the upper	12	the wrong blade was on the wrong motor, and the protrusion
	13	hit part of the hole, but not all of it because it was the
A No, it's not attached.	14	wrong one, could the blade kind of scootch over to get in
Q Are the knobs on the upper picture engaged in	15	there?
the holes?	16	A It could still rotate.
A No, absolutely not. You see a certain gap	17	Q Could it move laterally?
indicated by the green arrow in the top image that is kind	18	A No, if there is not the perfect alignment of
of the evidence that those knobs are not going all the way	19	the the notch and the or sorry, the knobs and the
into the holes as they are intended.	20	holes, then you would not have the proper locking
	21	happening.
-	22	Q If the if the blade did move in one
	23	direction, so that the lug was closer to the notch, what
	24	would happen on the other side?
-	25	A It would move away, but also it's constrained by
Page 344		Page 346
And counsel was asking you about the distance	1	the shaft, so it just cannot move in that lateral
between the middle shaft and the edge of the mounting	2	direction. But if it were to move ever so slightly, the
plate, and then where you would put that hole, right? Do	3	overlap would decrease in the opposite direction, right.
you recall that?	4	Q So does it matter whether there is any overlap
A Yes, I do recall that.	5	in terms of whether you can engage the lugs and the notches
Q Now, and he specifically was asking whether	6	on the wrong way?
there would be an overlap, by which I think he means in one	7	A Unless they are perfectly aligned with each
of the products, the hole would be not fully distant from	8	other, so they permit engagement, it does not matter
the same location in the other rotor. Did you understand	9	whether there is a little bit of overlap, I would say. I
that?	10	would also say that as I look at this picture, you know,
A That's what I understood, yes.	11	the manual talks about radial distances, but you could also
Q So when you put the blade on there, what's the	12	rotate those notches around and find spots on the mounting
upright figure in the middle of the rotor assembly?	13	plate where those could be located without any overlap of
A Sorry, can you be more specific as to what	14	the kind that was being discussed.
you're asking?	15	Q Let's just quickly cover talk about Sasaki.
Q The thing that's sticking straight up?	16	A Yes.
A The shaft.	17	Q And I have a really short question.
Q That's a shaft, right?	18	A Okay.
A Yes.	19	Q You said Sasaki covers a flying toy?
Q And where does that go with respect to the	20	A Uh-huh.
blade?	21	Q Does Sasaki describe a rotary wing aircraft?
A Well, it's hard to see in that image blown up,	22	A Yes.
but you see a circle between the two knobs. And the shaft	23	Q Let's move on to EP 067 and Philistine.
is directed supposed to go right through that hole in	24	A Okay.
the blade.	25	Q Counsel asked you several times whether there
	 Q So in your opinion, is the blade in the upper picture, yes you know, is it or is it not attached? A No, it's not attached. Q Are the knobs on the upper picture engaged in the holes? A No, absolutely not. You see a certain gap indicated by the green arrow in the top image that is kind of the evidence that those knobs are not going all the way into the holes as they are intended. Q You were asked a little bit about overlap, and let's take a look at why don't we take a look at RDX-0001.26. And I'm going to use this picture. I don't think you were directed at this exact version of this picture, but on the upper the upper figure. Page 344 And counsel was asking you about the distance between the middle shaft and the edge of the mounting plate, and then where you would put that hole, right? Do you recall that? A Yes, I do recall that. Q Now, and he specifically was asking whether there would be an overlap, by which I think he means in one of the products, the hole would be not fully distant from the same location in the other rotor. Did you understand that? A That's what I understood, yes. Q So when you put the blade on there, what's the upright figure in the middle of the rotor assembly? A Sorry, can you be more specific as to what you're asking? Q The thing that's sticking straight up? A The shaft. Q That's a shaft, right? A Yes. Q And where does that go with respect to the blade? A Well, it's hard to see in that image blown up, but you see a circle between the two knobs. And the shaft 	A It looks like they are from the angle of the 9 propeller. Seen from the top, they would rotate 10 counterclockwise. 11 Q So in your opinion, is the blade in the upper 12 picture, yes you know, is it or is it not attached? 13 A No, it's not attached. 14 Q Are the knobs on the upper picture engaged in 15 the holes? 16 A No, absolutely not. You see a certain gap 17 indicated by the green arrow in the top image that is kind 06 18 of the evidence that those knobs are not going all the way 19 11 into the holes as they are intended. 20 20 Q You were asked a little bit about overlap, and 21 let's take a look at why don't we take a look at 22 RDX-0001.26. And I'm going to use this picture. I don't 13 picture, but on the upper the upper figure. 25 Page 3444 And counsel was asking you about the distance 1 between the middle shaft and the edge of the mounting 2 plate, and then where you would put that hole, right? Do 3

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	Page 347	Page 34
1	was a mirror image of the connector that those two	¹ ILLAH R. NOURBAKHSH, Ph.D.,
2	references describe, actually, in the reference itself. Do	² was called as a witness, and having been duly sworn, wa
3	you recall that?	³ examined and testified as follows:
4	A Yes, I recall that.	4 DIRECT EXAMINATION
5	Q And you said there was not a mirror image shown,	5 BY MS. LU:
6	right?	⁶ Q Good afternoon Dr. Nourbakhsh.
7	A In the actual patent, there was not, yeah.	7 A Good afternoon.
8	Q But can you tell us what do you think would make	⁸ Q You have in front of you two binders, but let's
9	a person of ordinary skill in the art likely to use a	⁹ look at the binder that's labelled Rebuttal Witness
10	mirror image in the combination that you were proposing?	¹⁰ Statement of Illah Nourbakhsh.
11	A In the combination with Sasaki?	¹¹ A I have it.
12	Q Either in Sasaki or Xue?	¹² Q It's RX-0175C. Could you open that binder, and
13	A Let's start with Sasaki. Sasaki is already	¹³ you'll find inside your rebuttal witness statement. If you
14	teaching these directional mechanisms, right, by having a	¹⁴ could flip through that, and just let me know when you'v
15	shaft that's threaded, and a screw that's actually	¹⁵ done that.
16	threaded. So there is already some information for a	¹⁶ A I recognize it.
17	person of skill in the art to know that you may be able to	¹⁷ Q Okay. Do you agree that it contains your
18	attach those blades in a directional way.	¹⁸ rebuttal testimony in this case?
19	So given that EP 67, for example, or Philistine,	¹⁹ A Yes, it does.
20	for that matter you can lump the arguments in the same	20 Q Is the testimony true and correct, to the best
21	one describes one particular direction. It just would	²¹ of your knowledge?
22	seem obvious to somebody who has been designing these types	22 A Yes, it is.
23	of mechanisms to do the opposite direction in view of the	²³ Q If you could turn to the last page. Is that
24	existing mechanism that was already in Sasaki.	²⁴ your signature at the very end?
25	Q When you say describe one particular	²⁵ A Yes, it is.
	Page 348	Page 350
1	direction, in either Philistine or EP 67, what did you	¹ MS. LU: Your Honor, at this time, we would like
2	direction, in either Philistine or EP 67, what did you mean?	MS. LU: Your Honor, at this time, we would like to move into evidence RX-0175C into evidence.
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