Date: October 23, 2019

Case: Certain Unmanned Aerial Vehicles and Components Thereof



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UNITED S	STATES OF AMERICA
1	BEFORE THE
INTERNATIO	NAL TRADE COMMISSION
	X
IN THE MATTER OF:	: Investigation Numbe
CERTAIN UNMANNED AERIAL V	VEHICLES : 337-TA-1133
AND COMPONENTS THEREOF	:
	X
	HEARING
	Wednesday, October 23, 2019
	Courtroom C
	U.S. International Trade
	Commission
	500 E Street, S.W.
	Washington, D.C.
The Hearing commenced, p	ursuant to notice of the Judge,
9:08 a.m., before the Hor	norable Charles E. Bullock, Chie
Administrative Law Judge	for the United States
International Trade Comm:	ission.

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2 (Pages 377 to 380)

	Page 429	Page 431
1	A I presume	¹ to question 44, which appears in your witness statement at
2	Q You agree with that, right?	² CDX-0016C.0015. And we've put it on the screen.
3	A Well, I don't know that there is a disclosure	³ A Okay, I'm with you.
4	that there can't also be a neural network within the speed	4 Q And in this question the question is, what
5	planner.	⁵ does that page show. And if you need any reference, that's
6	Q Andersson doesn't say that.	6 the page of the five pictures in the Microdrones manual
7	A I don't I don't know that he says it isn't in	⁷ that is essentially the basis for all the arguments shown
8	the speed planner. We'd have to review the patent to see	⁸ on the right there. And specifically, you mentioned the
9	if the speed planner actually has, embedded in it, a neural	⁹ top image.
10	network.	¹⁰ A Yes.
11	Q Andersson actually explicitly teaches that the	¹¹ Q And in your testimony, you say, in the top image
12	speed plan is calculated, right?	¹² on CDX-0016.0003, you can see that the blades have two
13	A No.	¹³ knobs on the bottom of the center bar. And we are talking
14	Q Let's look at column 6, lines 26 through 30.	¹⁴ about those two little knobs on the interior part of the
15	This is talking about an extension of the primary	¹⁵ blade, right?
16	embodiment. It says, "furthermore, it may be possible to	¹⁶ A That's correct.
17	connect a system as stated above," which we discussed in	¹⁷ Q And then you further described it says, "the
18	connection with figure 2, "with a route planner." And then	¹⁸ two knobs align with two indentations," and the
19	it goes on to say that "a speed plan may be calculated."	¹⁹ indentations are on the mounting plate, right?
20	Do you see that word, "calculated"?	²⁰ A That's right.
21	A I do see it, but this is talking about an	²¹ Q And as you point out, the indentations are
22	extension to what's disclosed that is a route planning,	²² referred to as holds in the document, right?
23	which would then map points along the way. So it's really	A They are. There is some debate about I heard
24	it's a different disclosure than what we were just	²⁴ yesterday people said that might be a typo, but anyway,
25	talking about.	²⁵ holes or holds.
	Page 430	Page 432
1	Page 430	Page 432
1	Page 430 Q Andersson does teach a speed plan is calculated,	Page 432 Q And then in the last sentence of that answer, you said "the knobs are designed to rest in the
1 2 3	Page 430 Q Andersson does teach a speed plan is calculated, right? A For a route, an entire route, a speed plan for	Page 432 Q And then in the last sentence of that answer, you said, "the knobs are designed to rest in the indentations [holds] on the mounting plate " right?
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	Page 433	Page 435
1	in the indentations, and that the knobs align with the two	¹ to help people understand not to do it this way.
2	indentations, would you agree that those two structures are	² Q And you would agree that in the picture that's
3	engaging?	³ shown with the big red X, the knobs are not fully inserted
4	A I think they could be said to engage.	⁴ into the holes, right?
5	Q Now, the knobs are here on the blades, right?	⁵ A They don't appear to be fully inserted, I agree.
6	A That's right.	⁶ Q And therefore, those structures are not engaged
7	Q And the distance between the knobs on the	⁷ in this situation, right?
8	clockwise blade is different than the distance between the	⁸ A I would say, just looking at the knobs and
9	knobs in the counterclockwise blade, right?	⁹ holes, I would say they are not fully engaged. I don't
10	A That's what the manual teaches, right.	¹⁰ know. They may be partially.
11	MR. BRITIINGHAM: So let's blow up the section	¹¹ Q Engagement in the context of the '184 patent
12	there of the manual.	¹² means two components are mated are mating, right?
13	BY MR. BRITTINGHAM:	¹³ A In the sense of the lugs, engagement means, that
14	Q That's what the manual is saying here. To avoid	¹⁴ the two components can mate together, right.
15	accidental misplacement, both directions of turning use	¹⁵ Q And in the picture here with the big red X, the
16	"both directions of turning use individual distances	¹⁶ knobs are not mating with the holes, because if they were,
17	between those knobs," right?	¹⁷ that blade would be flush with the mounting plate, right?
18	A That's right.	¹⁸ A They are clearly not fully mated, and they are
19	Q So that means that the configuration the lugs	¹⁹ not fully down the knobs are not fully down in the
20	on the counterclockwise blade have a different	²⁰ holds. There was a discussion with Dr. Alonso yesterday
21	configuration than the lugs on the clockwise blade, right?	²¹ about, could there be some overlap. And we just don't know
22	A That's true.	²² that. But they are clearly not fully inserted in the
23	Q And the that differing configuration is what	²³ holes.
24	the manual says will avoid accidental misplacement, right?	Q But as I understand it, you're saying that this
25	A Right. Obviously, they can be misplaced.	²⁵ picture shows that the blade is attached to the wrong
	Page 434	Page 436
1	Page 434 They the manual shows that as well, but it helps to	Page 436
1 2	Page 434 They the manual shows that as well, but it helps to avoid misplacement.	Page 436 I motor, right? 2 A It is. And a person could install it like this,
1 2 3	Page 434 They the manual shows that as well, but it helps to avoid misplacement. Q Well, you say it can be misplaced. That's	Page 436 I motor, right? 2 A It is. And a person could install it like this, 3 attempt to fly, and this rotor would produce a downward
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	Page 437	Page 439
1	down, and probably tumbling the vehicle over and causing a	¹ certain, yes.
2	lot of damage.	² O I would push down on the spring, and I would try
3	O But you don't know if that would happen, based	³ and turn, and it wouldn't nothing good would happen.
4	on what's shown in this manual in this situation where the	4 right?
5	O-ring was being used do you?	⁵ A Well you wouldn't push directly on the spring
6	A I'm pretty confident of that. That's what they	⁶ Of course, you'd push down on the hub of the rotor, and try
7	are trying to warn against, that you would get clearly	7 to spin it into place, and you would be unable to That's
8	you would get downward thrust on this rotor of equal	8 right
9	magnitude to the thrust on the other three rotors as you	⁹ O Right. So at that point. I push down on the
10	tried to lift the drone up. And it would cause it would	¹⁰ blade it's compressed the spring. I've tried to turn and
11	cause it to tumble over. It would certainly not be a good	¹¹ lock it. It's not working. I get frustrated and I go get
12	situation.	¹² my duct tape and I strap it right on. Is that attached?
13	O Okay. So if instead of using the O-ring. I used	¹³ A I think if it can generate enough thrust to spin
14	the duct tape. I would get the same downward thrust until	¹⁴ the blade and provide thrust that would in the correct
15	the thing fell off right?	¹⁵ case cause it to lift or in the incorrect case push it
16	A In your hypothetical situation if the duct tape	¹⁶ down. I think you could say it's attached. It's certainly
17	were not strong enough, then it would be like if the	¹⁷ not locked.
18	O-rings weren't there. The blade would just spin and fly	¹⁸ O Under your definition because you're calling
19	off. It wouldn't stay attached	¹⁹ the Microdrones improperly situated blade attached if I
20	O But if the duct tape held on for a while, for	²⁰ can attach the blade wrong, no matter how wrong-headed an
21	those moments, you would say that's attached, just like the	²¹ idea it is to do it the '184 patent doesn't cover my
22	O-rings_right?	²² product right?
23	A I think it's possible that duct tape could be	23 A No. I think the '184 patent says that there is a
24	used to make a similar kind of an attachment. I haven't	²⁴ shaft lock portion and a blade lock portion. And those two
25	seen that situation.	²⁵ components have to lock the blade onto the rotor.
		1
	Page 438	Page 440
1	Page 438 O Well, let's take a look at one of the accused	Page 440
1 2	Page 438 Q Well, let's take a look at one of the accused products, just for comparison's sake, CDX-001C.0045. So	Page 440 Q But you're saying the fact that somebody iury-rigged the Microdrones blade to fit, even though all
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	Page 441	Page 443
1	Q Dr. Reinholtz, were you in the courtroom	¹ constraining.
2	yesterday during Dr. Alonso's testimony?	² Q But it does constrain them, right?
3	A Yes, I was.	³ A It I have not seen the product, the
4	Q Do you recall the questioning from Autel's	4 Microdrones product. All we have to go by is some grainy
5	counsel when he used the actual Phantom 3 physical device?	⁵ figures. It doesn't look like it would prevent the blade
6	A Generally, yes.	6 from rotating relative to the motor to me. It certainly
7	Q And what happened there was Autel's counsel took	7 would be pretty easy to rotate it.
8	a blade and showed how he could put it on the wrong motor,	⁸ Q Have you ever seen the game Chinese Checkers?
9	and turn it the wrong way and still sort of secure it	⁹ A I have.
10	somehow on to the product, right?	¹⁰ Q Full disclosure. It turns out it's not Chinese,
11	A That's correct.	¹¹ it's German. But marketing people got a hold of it. So in
12	Q Now, you actually personally own a Phantom 3,	¹² that game, the players use marbles as pieces, right?
13	right?	¹³ A That's right.
14	A I did, yes.	¹⁴ Q And they are placed on a board with a six-sided
15	Q Did you ever do that?	¹⁵ star, right?
16	A I asked my wife to do it as a test. I thought	¹⁶ A That's true.
17	it would be a better test. She is more of a novice. So I	¹⁷ Q And then the players try and move their marbles
18	haven't done it myself.	¹⁸ from one side of the board to the other, right?
19	Q But I mean, in your use of the drone, did you	¹⁹ A That's my recollection, yes.
20	ever start turning it, realize it was maybe not going in	20 Q I don't think I've played it in 40 years, but I
21	right, and just keep going as hard as you could?	²¹ did look it up on Wikipedia to make sure. Now, if that
22	A I don't think I have ever misinstalled a blade.	²² board were just flat, totally flat piece of wood and we all
23	I know it's not that hard do it, though.	²³ put our marbles down on it, they would roll all over the
24	Q Would you have let Autel's counsel do that to	²⁴ place, right?
25	your drone?	²⁵ A If it were totally flat and the marbles were
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18 (Pages 441 to 444)

	Page 445	Page 447
1	Q Right. So if I had the board, and I tilted it	¹ restraints, the holes and the wrap?
2	just a little bit, they could stay in their hole. But if I	² A It might.
3	tilted it a lot, they probably would fall out, right?	³ Q Let's take a look at Sasaki. It's RX-0037. And
4	A It depends on the depth of the holes, and the	4 you'll recall that Sasaki is a Japanese patent reference
5	angles, and so forth, of course.	⁵ application. It should be in binder 2, right behind the
6	Q But the fact that they are in the holes does	6 Microdrones reference.
7	mean that some movement is going to be restrained that	7 A Could you give me the number again?
8	might otherwise happen if it were just a flat table, right?	8 Q RX-37.
9	A Right, that's true. So just to be clear. If	⁹ A Okay. Thank you. I have it.
10	it's a flat table, they can't move in the downward	¹⁰ Q As I said, as you'll recall, the Sasaki
11	direction. If there is a hole, that may be restrained	¹¹ reference is a Japanese patent application. It's actually
12	against some tipping of the table or some angle, that's	¹² in Japanese, but there is a translation that's been
13	true.	¹³ provided behind the original Japanese just for
14	Q So now let's pretend you and I are playing	¹⁴ orientation.
15	Chinese Checkers, and we get interrupted. And we want to	¹⁵ A Correct, yes.
16	save the game where it is, so we can come back later and	¹⁶ Q So what I want to do is turn to your witness
17	finish it. So what I do is I take a piece of plastic wrap,	¹⁷ statement at question 85. And here you're responding to
18	and I wrap it over the board. And I get it tight on the	¹⁸ Dr. Alonso's testimony regarding Sasaki?
19	edges. Now the marbles are being held in position by the	¹⁹ A That's correct.
20	combination of the holes and the wrap, right?	20 Q And I want to focus, again, on what's been
21	A They certainly could be.	²¹ highlighted, which is which is where you say,
22	Q And the wrap will keep the marbles from jumping	²² "Dr. Alonso relies on the prior art device shown in figure
23	out or being jostled out of the holes, and the holes will	²³ 8 of Sasaki," or one of the limitations here it says,
24	keep them in the positions that they were on the board,	²⁴ "this limitation," but you could see which one we are
25	right?	²⁵ talking about if you want to go back.
	Page 446	Page 448
1	Page 446 A It depends on a lot of factors. I'd have to	Page 448 1 But and your answer goes on, "but as
1 2	Page 446 A It depends on a lot of factors. I'd have to see. It's hypothetical.	Page 448 But and your answer goes on, "but as 2 previously explained, the prior art design is not the
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	Page 449	Page 451
1	the overtightening of the spring, right?	¹ BY MR. BRITTINGHAM:
2	A Right. He taught away from this. And taught	² Q So this is a series of descriptions of each
3	away from direct	³ figure, right? It appears in many patents?
4	Q Well, he tried to solve the problem that was	4 A Yes.
5	generated by this portion of the design, right?	⁵ Q So if you look at the description of figure 7,
6	A Well, he clearly taught away from blades that	⁶ it says, "figure 7 is a slope view of the flying toy
7	depend on the installation depends on the direction of	7 previously proposed by the applicant." Figure 7 is the
8	rotation. And what he discloses is a device for attaching	⁸ prior art.
9	blades that doesn't depend on the direction of rotation.	⁹ A It does seem so from that passage.
10	Q Well, maybe we'll get to that later. All I'm	¹⁰ Q So Dr. Alonso is not is not inappropriately
11	trying to ask you is, this was what the way Sasaki's	¹¹ combining prior art embodiments with the patented
12	prior art device attached the propeller to the blade or	¹² embodiment in Sasaki, right?
13	I mean propeller to the shaft, right?	¹³ A In reading the passages you've just pointed me
14	A This is the prior art device, right.	¹⁴ to, you may be right. I'd have to review the patent
15	Q Now, your testimony claims that figure 7 is the	¹⁵ further, but clearly, he is talking about the art that
16	embodiment in the invention. It shouldn't be combined with	¹⁶ Sasaki teaches away from.
17	this figure 8, right?	¹⁷ MR. BRITTINGHAM: Your Honor, that's all I have
18	A Right. I think I'm citing to the specification,	¹⁸ on the '184 patent, subject to any redirect.
19	where it talks about figure 7 being the current invention.	19 REDIRECT EXAMINATION
20	Q All right. So let's see what Sasaki says about	²⁰ BY MR. ABRAMIC:
21	figure /. And this is in the section that you cite in your $\frac{1}{245}$	21 Q Good morning, Dr. Reinholtz.
22	answer, column 345 to column 426. Do you have that?	A Good morning.
23	A I'm with you.	²⁴ Want to pull up the exact one of the clins that counsel
25	case in which a propeller for a flying toy and a fivture	²⁵ want to put up the exact one of the crips that courser
	case in which a proponer for a right oy, and a fixture	Just had up.
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1	Page 450 thereof in the present invention" the translation is a	Page 452
1 2 3	Page 450 thereof in the present invention" the translation is a little rough "are provided for the flying toy, Japanese	Page 452 Page 452 1 BY MR. ABRAMIC: 2 Q And he was asking you questions about whether 3 Carabi and the minerate equation of the minerate equating equating equation of the minerate equating equating
1 2 3 4	Page 450 thereof in the present invention" the translation is a little rough "are provided for the flying toy, Japanese patent application number S63-26355, previously proposed by the applicate and as shown in forum 7 will be described "	Page 452 BY MR. ABRAMIC: Q And he was asking you questions about whether Sasaki was the prior art or not. And in your testimony, you said she it was my understanding that Sasaki was the
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	Page 453	Page 455
1	got those two drones in your head?	¹ portion of the manual that tells you how to install the
2	A I do.	² battery, right?
3	O Can you explain to me what are the real world	3 A It's definitely part of that, yes.
4	and practical differences between those two types of	4 O Part of the a section of the manual on the
5	drones?	⁵ battery.
6	A It's a world of difference, because	6 A That's right, yes.
7	inexperienced fliers buy these drones. They don't	7 O And the manual instructs the user to push the
8	understand how to install the blades. The markings they	⁸ battery into the battery compartment according to the below
9	are marked with you saw the features yesterday with	⁹ diagram. So looking at the diagram, you see the battery is
10	black hubs and dots that are supposed to match. And my	¹⁰ kind of hanging out, and there is an arrow pointing in,
11	experience working with students is they just don't always	¹¹ right?
12	observe that. They don't read the manual carefully. And	¹² A That's right.
13	it's easy to misinstall a blade. So a warning in a manual	¹³ Q So the user is being told to push the battery
14	is good, but a device that you cannot incorrectly install	¹⁴ into the body of the drone in some way, right?
15	and lock a blade is a much better option.	¹⁵ A That's right.
16	MR. ABRAMIC: Thank you. I pass the witness.	¹⁶ Q And then it goes on and says, "when you hear a
17	MR. BRITTINGHAM: I don't have anything further	¹⁷ click, the battery has been properly installed," right?
18	in response to that line of questions.	¹⁸ A Yes, that's right.
19	JUDGE BULLOCK: Okay. Go to our last patent.	¹⁹ Q So you can conclude several things from the
20	CROSS-EXAMINATION	²⁰ series of images. One of them is the battery is removable,
21	BY MR. BRITTINGHAM:	²¹ right?
22	Q Dr. Reinholtz, now we'll cover the '013 patent.	²² A It doesn't say that. I think you could infer
23	A Okay.	²³ that.
24	Q I want to consider the combination that's been	²⁴ Q Well, a picture of a battery sticking way out of
25	proposed of the Phantom 2 manual with the Kondo patent.	²⁵ a drone, and then users being told to push it into the
	Page 454	Page 456
1	Page 454 A Okay.	Page 456 ¹ compartment, doesn't that imply that the battery can come
1 2	Page 454 A Okay. Q Let's the Phantom 2 manual is at RX-23, which	Page 456 ¹ compartment, doesn't that imply that the battery can come ² out and go in?
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