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UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

NAUTILUS HYOSUNG, INC.,
Petitioner,

v.

DIEBOLD NIXDORF, INC.,
Patent Owner.

Case IPR2016-00529 (Patent 7,229,010)

Case IPR2016-00530 (Patent 7,229,010)

Before BARBARA A. BENOIT, GEORGIANNA W. BRADEN and
KERRY BEGLEY, Administrative Patent Judges.

Record of Oral Hearing
Alexandria, Virginia
Thursday, May 4, 2017

Case IPR2016-00529 (Patent 7,229,010)

Case IPR2016-00530 (Patent 7,229,010)

Hearing held at:

UNITED STATES PATENT AND TRADEMARK OFFICE
USPTO MADISON BUILDING
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Case IPR2016-00529 (Patent 7,229,010)

Case IPR2016-00530 (Patent 7,229,010)

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1 JUDGE BENOIT: Good afternoon. We are convened
2 for oral argument for IPR2016-00529 and IPR2016-00530, which
3 both challenge US Patent 7,229,010. Let's start with
4 appearances at this time. Petitioner.

5 MR. RIFFE: Good afternoon, Your Honors. Again,
6 my name is Tim Riffe, lead counsel for petitioner, Nautilus
7 Hyosung. With me this afternoon is Kevin Wheeler and Daniel
8 Tishman. They'll be handling the arguments on the 010
9 patent IPRs.

10 JUDGE BENOIT: Thank you. Patent owner.

11 MR. WEEKS: Good afternoon, Your Honor. Joshua
12 Weeks for patent owner, Diebold Nixdorf. And with me is
13 David Frist, lead counsel, Jason Cooper, Christopher Kelly.
14 And we also have Mr. Ed Crooks from Diebold.

15 JUDGE BENOIT: Thank you.

16 Each side will have 60 minutes to argue this
17 afternoon. Petitioner has the ultimate burden of
18 establishing unpatentability and can argue first and may
19 reserve rebuttal time. Patent owner has filed a motion to
20 exclude. So patent owner may reserve rebuttal time but may
21 only use rebuttal time to respond to petitioner's arguments
22 regarding patent owner's motion to exclude.

1 MR. WEEKS: Yes, Your Honor.

2 JUDGE BENOIT: And with that, petitioner, we can begin
3 when you're ready.

4 MR. WHEELER: Thank you, Your Honor.

5 Good afternoon, Your Honors. Kevin Wheeler on
6 behalf of petitioner. I will start out by saying we have a
7 whole host of slides here. I assure you I'm not going to
8 march through all of them. I think it's 70. I just want to
9 pick a few to highlight.

10 And starting -- and one point also I'll note. We
11 have two proceedings here, of course. And I'm going to --
12 the issues by and large are joined. There is one instance
13 where they are not. So I'm going to address them together.
14 Of course, I'll note when an issue applies only to one
15 particular proceeding.

16 And what we will be addressing -- I'll do a very
17 brief introduction of technology overview. I know, of
18 course, you are quite familiar with the patent and the
19 technology; just to frame our discussion.

20 And then I will address with respect to the 529
21 proceeding what specifically is petitioner relying on with
22 respect to the Jones reference. And then I will address a

1 few points on motivation to combine. And then my colleague
2 Dan Tishman will address a couple points with respect to
3 claim 14.

4 JUDGE BENOIT: Do you wish to reserve rebuttal
5 time?

6 MR. WHEELER: I do, Your Honor. We'll reserve 20
7 minutes, please.

8 And, of course, as I said, we are dealing with the
9 010 patent. And if we flip to slide five very briefly, here
10 we have two primary components, if you will. Highlighted in
11 the blue are the kind of readily known ATM components; a
12 transport path that simply transports the sheet item as it
13 is inserted and ultimately to what is referred to as the
14 storage compartments highlighted in purple. And that's
15 really where the action is at here with this patent.

16 And if we flip to slide six, we can dive into
17 those storage compartments. And on the left you've got --
18 within the storage compartments the whole idea obviously is
19 you have a sorting mechanism that is intended to allow the
20 machine to store a sheet item in one of two bins.

21 And how it does that, how the 010 purports to do
22 that is on the left, you've got a pair of rails that's

1 highlighted in yellow. The sheet item comes down
2 vertically. And there is tension with the rails. And you
3 have the plunger member shown on the right in purple. And,
4 of course, this moves in a horizontal direction and can push
5 that sheet item into either bin using the rails as tension.
6 Very simple. Very straightforward technology.

7 Turning -- well, before I turn to the 529 petition
8 just so we can kind of graphically see the claim, the
9 independent claim one, how it's broken out, the blue --
10 stuff denoted by blue at the top, these are the generic ATM
11 components; the input, output device, sheet item transport,
12 the things -- the items that are in every ATM or ABM, if you
13 will.

14 And the items denoted at the bottom in purple,
15 this is the storage compartment. This is where they've
16 claimed the storage areas, the storage compartments, the
17 plunger and the rails, et cetera.

18 And flipping to slide eight, the 529 proceeding,
19 there are five instituted grounds with the primary
20 combination being Jones and the Kozima reference.

21 And if we flip to slide nine very briefly, the
22 Kozima reference. On the left you see -- this is the

1 sorting mechanism of Kozima. On the left we have again the
2 rails, the pair of rails denoted in yellow. And we have the
3 plunger member here also denoted in purple. And, as you can
4 see, on the right the plunger member moves in a horizontal
5 direction to push the sheets denoted by green into either of
6 the two storage compartments. Pretty straightforward.
7 Pretty clear.

8 And if we flip to slide 10 and turning to the 530
9 proceeding, again we have five instituted grounds. Here the
10 primary combination is the Swinton reference in combination
11 with the Nobuaki reference.

12 And if we flip to slide 11, we'll take a look at
13 Nobuaki, the sorting mechanism disclosed there. Again we
14 can see a pair of rails this time denoted by yellow. And,
15 for context, this is a top-down view of the system. And
16 once again, we have a plunger member denoted in purple. And
17 you can see the plunger member can move horizontally to push
18 the sheet item using the tension of the rails into one of
19 two storage bins. Again, very clear.

20 So we're dealing with a situation here -- I know,
21 of course, you see a lot of very complex technologies. This
22 is rather straightforward, moving, mechanical components and

1 rather straightforward and clear prior art.

2 As a result there are very minor if -- well, just
3 one, actually, dispute as to whether or not these
4 combinations disclose all elements of the challenged claims.
5 So by and large there are no disputes as to whether or not
6 these combinations disclose the elements. The only
7 exception is claim 14. And my colleague will address that
8 in a little bit.

9 But -- so what are the disputes then? And if we
10 flip to slide 12, well, Diebold raised an issue as to what
11 embodiment or embodiments is petitioner relying on in the
12 Jones reference. And if we flip to slide 14, the petition,
13 Dr. Kaufman's declaration in support of that petition makes
14 very clear what it is petitioner is relying on.

15 And that is the ATM embodiment of the Jones
16 reference as you can see on top of slide 14, for the basic
17 ATM features, the input, output device, the sheet transport
18 item, and is relying on Kozima for the storage related
19 limitations; very clearly laid out in the petition and the
20 declaration.

21 But if we flip to slide 15, there are, in fact,
22 two embodiments in Jones. One is the ATM, which is being

1 relied on by petitioners. And a second is a table-top
2 currency counter shown here on the right of the screen.

3 And so what Diebold has argued is that petitioner
4 is relying on both or it's unclear or that we need to be
5 showing motivation to combine all of these different
6 embodiments. Just to be frank, it's much ado about nothing.
7 Petitioner is not relying on this second embodiment, the
8 table-top currency counter.

9 And what is the basis for Diebold's argument here?
10 Well, they point to four citations either in the petition or
11 in Dr. Kaufman's declaration that they say cite to the
12 table-top currency embodiment.

13 Well, in each of these four instances either, one,
14 the citation actually points to the ATM embodiment and not
15 the table-top currency or, two, it's merely a see also
16 citation, that is, additional support to a citation already
17 to the ATM embodiment.

18 So what do I mean by that? If we just take a
19 quick look on slide 17 starting first with the first
20 citation, paragraph 140, well, paragraph 140 is directed to
21 the ATM embodiment in Jones. If you look at paragraph 140
22 -- we have it up on the screen -- it refers to Figure 1A.

1 Figure 1A is right below paragraph 140. Admittedly, it's a
2 block diagram. You can't quite tell which embodiment it
3 refers to, but it doesn't take a lot of work to look at
4 paragraph 99, which refers to Figure 1A and Figure 1B
5 together as the same embodiment. And as you can see by
6 looking at Figure 1B, this is the ATM embodiment.

7 And Diebold's expert, declarant understood this.
8 And he readily agreed that paragraph 140 relates to the ATM
9 embodiment. So we're a little confused by the argument that
10 Diebold is making here. We assume it's a mistake; but
11 paragraph 140 very clearly relates to the ATM embodiment,
12 which is, in fact, the embodiment that petitioners are
13 relying on.

14 With respect to the other three citations, these
15 are the three instances where they are see also citations.
16 And in each and every instance, these are citations in
17 addition to citations to the ATM embodiment.

18 You can see at the top here this is from the
19 petition. We've got it highlighted for you on the screen,
20 see also paragraph 143. The bottom is -- that is Dr.
21 Kaufman's declaration. And you can see this is a -- these
22 are also citations coming after citations to the ATM

1 embodiment.

2 Why are they there?

3 JUDGE BENOIT: Yes. So should we excise them from
4 the petition and not pay any attention to them
5 because they come from another embodiment?

6 MR. WHEELER: That would be just fine with
7 petitioners. We could -- we could red line them. And from
8 our perspective it would have no impact really on the
9 petition. Why they were there in the first place, it was
10 simply to show the ubiquity of these particular features in
11 the broader category of automatic banking machines, which is
12 what the claim is directed to notwithstanding the fact that
13 we are relying, however, specifically on the ATM embodiment
14 for the obviousness analysis.

15 But we can just remove them. And it would be just
16 the same to us. And that's why I say this is really much
17 ado about nothing. And I think it's worth just pausing for
18 a moment here and noting in Diebold's papers this is the
19 very first reason they provide to Your Honors as to why you
20 should find the challenged claims to be valid. When they
21 stand up in a few minutes, their presentation, it's the very
22 first reason they're going to provide as to why these

1 challenged claims should be found valid.

2 And I note that simply to -- simply to note that
3 that's what they're leading with. And I think it's a bit
4 telling of where we are with this proceeding. And if
5 there's no questions with respect to that, there are some
6 comments I would like to make about motivations to combine.

7 And to do that, I'm going to jump to slide 20 here.
8 And to frame the issue I always like to start with the case
9 law. And in particular in this instance, we have a situation
10 where the Federal Circuit has issued an opinion that came
11 after the briefing was concluded in this -- in both of these
12 proceedings. That is the Personal Web case, 848 F.3rd. 987.

13 And I bring this case up because I think it's a
14 nice example. The Federal Circuit in its opinion does a
15 nice job of reiterating what the standard is. It's very
16 fresh, very recent. And when we look at page 991 of the
17 opinion, the Federal Circuit reiterates the long-standing
18 principle that a person of skill would have to be motivated
19 to combine the references to arrive at the invention.
20 Long-held standard.

21 The Federal Circuit goes on in page 994 to say
22 that additionally you've got to explain how the combo, the

1 combined references are supposed to work. And they talk a
2 little bit about, well, what does that mean, what -- what
3 kind of explanation does -- and in this instance, in
4 Personal Web, it was saying to the board you've got to give
5 us a little bit here to be able to explain how this combined
6 reference is supposed to work.

7 And with respect to the amount of explanation, they
8 explained that it depends on the complexity of the
9 technology and the prior art and that in a case where there
10 is simple technology and very clear prior art that a brief
11 explanation is sufficient.

12 And that, of course, is the world we are in with
13 respect to these two proceedings. Very simple mechanical
14 technology. Very clear prior art where there are minimal to
15 no disputes with the -- with respect to what is actually
16 disclosed by the combination of the references vis-a-vis the
17 challenged claims.

18 What this opinion did not do, just I think to get
19 it all out there, is it did not change the long-standing
20 precedent that to prove motivation to combine that you must
21 somehow prove how the physical embodiments of the two
22 references would fit together.

1 The court is not saying here you've got to tell us
2 which nut, which bolt is going to go where, how there's
3 clearance, et cetera; merely how would they work together.

4 So with that, let's jump to slide 24 and talk about
5 what petitioners have provided to the board. And starting
6 first with the 529 proceeding, again just to touch on this
7 to frame, the combination here is the sorting mechanism of
8 Kozima with the well-known ABM features of the Jones ATM
9 embodiment. Okay.

10 So how do you combine those -- how would those two
11 references work? Well, what petitioner has provided to the
12 board -- this is a figure from Jones. And you can see in
13 the bottom right, there are two storage bins there that have
14 been highlighted.

15 The idea here is very simple. You take the two
16 storage bins from Jones. And you merely replace those two
17 storage bins with the storage bins from Kozima that already
18 incorporate the sorting mechanism. Very straightforward.
19 And you swap out the two existing bins with the bins from
20 Kozima.

21 And petitioner has laid this out in the petition
22 at pages 12 through 13. They laid it out in Dr. Kaufman's

1 declaration at paragraph 42. And then they reiterated this
2 position in the reply at pages 6 through 7 and page 9.

3 Petitioners went on to provide five different
4 reasons as to why a POSITA would be motivated to combine
5 Jones with Kozima. I'm not going to read through these for
6 you. They are in the petition. It is five distinct reasons
7 as to why a POSITA would be motivated to take the Jones
8 reference and combine it with Kozima. Barring any
9 questions, of course; but I don't see a lot of benefit in
10 just reading it to you.

11 With that, flipping to the 530 position -- we're
12 on slide 27. Here again, just to orient us, we are
13 combining Nobuaki's sorting mechanism with the Swinton ABM.
14 That's the generic ABM features.

15 And if we flip to slide 28, okay, how do you --
16 how do these two references work together? What has
17 petitioner provided? Well, here, very similar to the prior
18 combination, you take the base ATM reference, the Swinton
19 reference. You remove the two storage bins and the
20 pre-existing sorting mechanism. And you replace those two
21 items with the storage bins of Nobuaki, which already has the
22 sorting mechanism as part of the storage bins. And this is

1 a figure from Dr. Kaufman's declaration wherein he's
2 physically depicted how this would look, what components
3 would be removed and which components they would be replaced
4 with. The petition addresses this at pages 13, pages 41.
5 And the petitioner's reply reiterates this at pages 2 to 3.

6 And similar to the 529 petition, petitioners in
7 the 530 proceeding have provided multiple reasons as to why
8 a POSITA would be motivated to combine the two references in
9 the manner just described. Here it's four reasons as
10 opposed to five in the 529 proceeding.

11 Now, Diebold takes issue with the reasons
12 provided. They take issue with whether or not petitioners
13 have shown a sufficient motivation to combine. And in doing
14 so starting first here with the 529 proceeding, Diebold's
15 arguments rest on one of two problems. All of them share
16 these common problems.

17 Either, one, they're improperly focusing on the
18 combinability of the physical embodiments of the two
19 references whether it be Kozima with Jones or Nobuaki with
20 Swinton or they are simply missing facts that are in the
21 record and very specifically the facts I just walked Your
22 Honors through.

1 This is an example from the 529 response. Here's
2 a similar example from the 530 response where Diebold is
3 taking issue with petitioner not having explained how the
4 physical element would be combined. It's not the standard.
5 That's not the standard.

6 How do we know that? Well, I mean, we can start
7 right with KSR where the Supreme Court tells us that a
8 person of ordinary skill is also a person of ordinary
9 creativity not an automaton. This is not just take physical
10 structure from one reference and take physical structure
11 from a second reference and combine them. That's not --
12 that's not what's happening here. That's not what the
13 standard is.

14 It's take the teachings of one reference and the
15 teachings of another reference and to a person of ordinary
16 skill who has ordinary creativity, can he combine those
17 teachings and make a working device according to the
18 invention. And that's precisely what petitioners have shown
19 here.

20 And this is -- this is not a disputed issue in the
21 legal context, if you will. There's been many Federal
22 Circuit cases that have very clearly said, for example, the

1 test for obviousness is not whether the features of a
2 secondary reference may be bodily incorporated into the
3 structure of the primary reference.

4 And this is actually from the institution
5 decision. However, the point here is there's three or four
6 different Federal Circuit cases that hold -- stand for this
7 very proposition. There simply is no requirement to show
8 that the references could be physically combined.

9 Nevertheless, frankly, petitioners have --
10 actually have shown how these references could be combined.
11 And as I just walked through, we've shown which components
12 would be removed and which components they would be replaced
13 with.

14 And just to give an example of what I'm talking
15 about with respect to Diebold's arguments, if we flip to
16 slide 34 -- so we're in the 529 proceeding here. And in
17 response to petitioner's first reason as to why a POSITA
18 would be motivated to combine the Kozima reference with the
19 Jones reference, Diebold argues that the petition does not
20 identify which portion of Jones's ATM would be replaced or
21 provide any assessment of the comparative size; that we
22 don't identify which portions of Jones's ATM would be

1 replaced.

2 If we flip back to slide 25, it is exactly what we
3 just walked through; that the two components that would be
4 replaced from Jones are bins 20A and 20B. Those are the
5 storage bins disclosed in Jones. They would be replaced
6 with the sorting mechanism and storage bins of Kozima.

7 I'm not going to beat a dead horse here. But if
8 we look at another example, jumping to slide 35, this time
9 in response to petitioner's reason number two as to why a
10 POSITA would be motivated to combine, Diebold argues the
11 petition offers no explanation of which components in
12 Jones's ATM would be removed or replaced.

13 I'm not going to flip back to slide 25, but I
14 think -- I think that offers a bit of flavor of what's going
15 on here. And if we jump towards slide --

16 JUDGE BRADEN: Actually, Counselor,
17 I hate to cut you off, but I would actually like to hear
18 from your co-counsel and -- I would like to make
19 sure he has sufficient time to address claim 14 because I
20 have questions.

21 MR. WHEELER: Absolutely. That's no problem, Your
22 Honor. We can certainly jump to claim 14.

1 JUDGE BRADEN: Thank you very much.

2 MR. WHEELER: Yes.

3 MR. TISHMAN: Good afternoon, Your Honors. And
4 may it please the board, Daniel Tishman. I will flip to
5 slide 49 -- slide 50. And, Your Honors, I'll be addressing
6 two issues with respect to claim 14. These issues cut
7 across both petitions. And they have to do with the
8 disclosures in the Swinton reference.

9 On slide 51, we have shown that in the petition, we
10 relied on Swinton's friction rollers 196 as disclosing the
11 limitation wherein the at least one processor is operative
12 to cause the sheet to be aligned in the first sheet moving
13 direction by moving the sheet in the second sheet moving
14 direction. And that's what we've highlighted on slide 51.

15 To provide some context, the first sheet moving
16 direction that patent owner explained in their patent
17 owner's response is the direction of the transport path.
18 And it starts at the bottom, left-hand corner at the inlet
19 422 and continues up to the alignment area 424 up that
20 upward slope to the right.

21 And Diebold explained as well in their patent
22 owner's response that the second sheet moving direction in

1 the preferred embodiment of the 010 patent is the transverse
2 direction. That's a right-to-left direction in comparison
3 to the upward direction of the sheet 476 along the transport
4 path.

5 So in Figure 4, you can see highlighted in red on
6 slide 53 the transverse rollers 466 and 468. And it's
7 illustrated a little bit more in the Figures 9 through 15 at
8 right. As the check 476 -- or it's actually a sheet in the
9 claims. As the sheet comes in somewhat skewed it moves
10 upward. And those transverse rollers cause a slight shift
11 in movement of the check to the right until it becomes
12 perfectly aligned as shown in Figure 15.

13 So that's the second sheet moving direction that
14 Diebold described in their patent owner's response. Now,
15 what we --

16 JUDGE BRADEN: Correct me if I'm wrong, but isn't
17 it true that that's also the direction that's described in
18 the specification?

19 MR. TISHMAN: Correct, Your Honor. They describe
20 the specification -- we don't think the specification is
21 limiting as to what the second sheet moving direction needs
22 to be, but that is the direction that's described in the

1 specification.

2 JUDGE BRADEN: Okay. Thank you.

3 MR. TISHMAN: Moving now to slide 54, Diebold
4 argues that the friction rollers 196 align the check left to
5 right and that they do not move the check in the second
6 sheet moving direction that we identified in our petition
7 with respect to claim 13.

8 So to provide some context, if you look at claim
9 14 at the beginning, it depends from claim 13. And claim 13
10 requires both a first sheet moving direction and a second
11 sheet moving direction that's generally perpendicular to the
12 first sheet moving direction.

13 So in our petition, we identified a direction as
14 the first direction which is essentially a horizontal
15 direction, right, coming in -- I believe it's transport 38.
16 And the second direction is the up-down direction that's
17 essentially vertical. That's 111.

18 So what Diebold argues in their petition -- they
19 don't dispute that that second sheet moving direction is the
20 vertical up-down direction. So they agree with us on that.
21 And they don't dispute that as part of the alignment process,
22 there is a slight lift of the check and a dropping of the

1 check in that second sheet moving direction.

2 So we're still on slide 54. If you look at the
3 claim, that's all that's required, aligning the check by
4 moving the check in a second sheet moving direction.

5 JUDGE BEGLEY: How does the
6 vertical movement of the check help the alignment
7 horizontally? Because that's how I read the claim. So --

8 MR. TISHMAN: Right. So it's -- I think it's most
9 clearly shown in slides 56 and 57. So in 56, we've shown
10 that as that D-shaped roller, which is 196, rotates clockwise,
11 the check that we've highlighted in green in this figure is
12 both lifted upwards and it's moved to the right.

13 So it's moved in the second sheet moving direction
14 as part of the alignment process as that D-shaped roller
15 rotates. And it moves the check until it gets to lugs 172,
16 which are shown there. It's really small on this figure,
17 but they're a metal protrusion that extends above the
18 transport path.

19 JUDGE BRADEN: But doesn't Swinton talk about the
20 fact that it's actually lug 172 that does the alignment?

21 MR. TISHMAN: So what lug 172 does is it's moved
22 upward. And there are two small pieces of metal. As that

1 friction roller 196 is engaged it moves the check over to
2 the right. And when the check bumps against that lug 172,
3 the check is then aligned.

4 So the alignment process requires that friction
5 roller 196 to rotate, which both lifts the check and moves
6 the check to the right. And Dr. Kaufman, our expert --

7 JUDGE BRADEN: But isn't it the
8 movement of the right and hitting up against 172 that is the
9 alignment? I don't see where -- and I know that this was
10 -- discussed in some of the deposition transcripts. But I'm
11 not sure I understand, as Judge Begley asked, how merely
12 lifting up in the vertical gets you to the alignment by
13 moving.

14 MR. TISHMAN: So the claim does not require that
15 the alignment occur only by moving in that single second
16 sheet moving direction. And what Dr. Kaufman explained --
17 and this is in his deposition. He explained it very clearly
18 at page -- let's see. It's at page 51, line 6 through 52,
19 line 25. Sorry. That's the wrong citation, but what Dr. --

20 JUDGE BRADEN: Well, no, I recall the -- I read
21 it. But here's my problem -- is that I agree that the claim
22 in and of itself is not exclusionary. But it does require

1

2 To be aligned by moving the sheet in the second sheet moving
3 direction.

4 So even if you have alignment by a third
5 direction, I don't see how that's actually relevant because
6 the alignment has to occur by moving the sheet in the second
7 moving direction.

8 So I'm not sure how moving upwards gets you to
9 that to be aligned when, in fact, it's actually this way
10 movement that gets you to the alignment.

11 MR. TISHMAN: It's both --

12 JUDGE BRADEN: Am I reading that incorrectly?

13 MR. TISHMAN: I don't think you're reading it
14 incorrectly, Your Honor. It's -- well, I'd submit to you
15 that it's both. And Dr. Kaufman explained that the rotation
16 of the check, the lift is a very important part of the
17 alignment process.

18 Because if you look at the D-shaped roller, if
19 it -- if it didn't extend above the transport path and lift
20 that check up, the check would not be pushed over to the
21 right. So the D-shaped roller both lifts and moves the
22 check to the right.

1 So it's sort of a fluid motion. It's both upward
2 and to the right at one time. And that's what the claim
3 requires. It moves the check in that second sheet moving
4 direction as part of the alignment process.

5 JUDGE BRADEN: Okay. I think I understand your
6 argument there. So go on.

7 MR. TISHMAN: Okay. And I'll just add, Your
8 Honors, that that's -- that movement upward is necessary to
9 eliminate the friction caused by the transport path in that
10 first moving direction.

11 So moving on, nobody disputes how this works.
12 Diebold agrees with us that there's a slight movement. And
13 they even agree with us that this is a slight movement in
14 the second sheet moving direction upward.

15 And their expert, Dr. Kurfess, admitted in his
16 deposition at lines -- page 36, line 15 through page 37,
17 line 1 that even a slight movement constitutes a transport.
18 And he also admitted that the claim does not require only
19 moving in that second sheet moving direction. It doesn't
20 require only moving right, left. And that's at page 176,
21 line 1 through 6.

22 Moving to the next slide, slide 59, it's worth

1 noting, Your Honors, that Diebold's interpretation that they
2 laid out very clearly in their patent owner's response of
3 what the claim requires based on the preferred embodiment is
4 exactly what Swinton does.

5 So Diebold stressed that the first sheet moving
6 transport is the belt flight. And this is in the 010
7 patent. I'm on slide 59. That that's the first direction
8 and that the second sheet moving direction is the transverse
9 rollers 466 and 468.

10 Now, in Swinton that's exactly how it works. The
11 first sheet moving direction is the direction forward. Now,
12 we identified the second sheet moving direction as up-down.
13 But based on their interpretation that this claim needs to
14 be read as the preferred embodiment, Swinton does just that
15 by moving the check in what Diebold has labeled on this
16 Figure 8 the direction of alignment which is a right, left
17 direction just as in the 010 patent.

18 JUDGE BRADEN: Okay. So now let's address that
19 issue, because I'm looking at your petition. Where in the
20 petition is there an explanation about friction rolls 196
21 moving in the second sheet direction?

22 MR. TISHMAN: So in the claim chart, Your Honor --

1 and I'll find the page. I'll look at the 529 petition for
2 ease of reference.

3 JUDGE BRADEN: Please do.

4 MR. TISHMAN: So in the 529 petition on page 54, we
5 explain how the friction roller is used as part of the
6 alignment process. And we didn't -- we didn't understand
7 there to be a dispute as to how the friction roller 196
8 operates, but we explain that this is the -- this is the
9 element that satisfies this limitation in this claim chart.

10 Does that answer your question, Your Honor?

11 JUDGE BRADEN: I'm actually trying to find it.
12 I'm on page 54. And I'm looking at Swinton.

13 MR. TISHMAN: Okay. It turns out I'm looking at
14 the 530 petition. So it's on page 57. 56.

15 JUDGE BRADEN: 56?

16 MR. TISHMAN: 56. Thank you. Of the 529.

17 JUDGE BRADEN: Okay. So I see where it talks
18 about how the friction rolls 196 move the check into a
19 correctly aligned position. Is there any discussion about
20 those rolls moving in a second sheet moving direction or
21 this explanation about how it's moving upwards and then you
22 have to have this movement over against lug 172?

1 MR. TISHMAN: That level of detail is not provided
2 in the petition, Your Honor. We didn't understand there to
3 be -- this shouldn't be something that's beyond dispute.

4 And Diebold's response indicates very clearly that
5 they don't disagree with us on how the reference works. We
6 identified in the petition the roller 196. And when it was
7 called into question, we provided a little bit more context
8 in the reply.

9 JUDGE BRADEN: Okay. Thank you.

10 MR. TISHMAN: And are there any further questions
11 on the alignment, the first element of the alignment? The
12 second element being the noncontact sensor issue. Okay.

13 Your Honors, moving now to the second issue with
14 respect to claim 14, the issue is whether Swinton discloses
15 -- and I'm moving to slide 63 -- whether Swinton discloses
16 sensing the sheet with a plurality of noncontact sensors.
17 And in our petition, we identified optical sensors 216, 218,
18 220 and 222 as satisfying the requirement of sensing the
19 sheet with a plurality of noncontact sensors.

20 So I think it's important to start with what we
21 agree on. Diebold does not dispute in their papers that
22 these sensors are noncontact sensors. They also do not

1 sense -- they do not dispute that these sensors are used to
2 sense the sheet.

3 Moving now to slide 64, what is disputed is that
4 -- Diebold argues Swinton's alignment is --

5 JUDGE BRADEN: I'm sorry. I thought they disputed
6 that optical sensor 218 -- I thought it was used to check
7 for something and then stop the machine.

8 MR. TISHMAN: They dispute -- they dispute whether
9 it satisfies the limitation. They do not dispute whether
10 it's an alignment sensor. Sorry about that. They do not
11 dispute that it's a noncontact sensor. And they do not
12 dispute that it senses the check. Okay.

13 So moving now to slide 64, what is disputed is
14 they argue that the sensor -- that the alignment is
15 mechanical. And, second, they argue that sensors 216
16 through 222 don't satisfy the limitation because they're not
17 used in the alignment process.

18 Now, as to the first issue that the alignment is
19 mechanical, there's absolutely nothing in the claim language
20 that precludes a mechanical alignment. In fact, in the 010
21 patent, it is a mechanical alignment. And it needs to be.
22 In order to move the check physically right to left, it needs

1 to be a mechanical movement.

2 As to the second issue, whether these sensors are
3 used in the alignment process, in the petition we presented
4 the broadest reasonable interpretation of this limitation,
5 which requires simply sensing the sheet with a plurality of
6 noncontact sensors.

7 However, Diebold argues that the sensors need to
8 be used in the alignment process. And we presented our
9 argument that sensors 216 and 218 are, in fact, used in the
10 alignment process. So the way it works in --

11 JUDGE BRADEN: Okay. But where do you present
12 that argument in the original petition?

13 MR. TISHMAN: In the petition, we rely on these
14 sensors; 216, 218, 220 and 222.

15 JUDGE BRADEN: As being part of the alignment
16 process?

17 MR. TISHMAN: Correct. With the board's
18 indulgence, I'll find the page.

19 JUDGE BRADEN: Is that on page 16 of the petition
20 or are you going to refer to the claim charts?

21 MR. TISHMAN: I think it's in both places. So
22 we'll start with, let's see, page 16. So with respect to

1 this claim, we've identified these sensors as positioned
2 along the feed path. And we describe their functionality.

3 And we explain that -- that the alignment is with
4 the -- with the friction rollers 196. The electronic
5 control means operates with those sensors to initiate
6 operation of the alignment motor. So that's on page 16.

7 Does that answer Your Honor's question?

8 JUDGE BRADEN: Well, I want to make sure that I
9 understand. So I'm looking at page 56 and the claim chart.
10 And then I also looked at page 16 of the petition. You're
11 saying that you're relying on -- it looks to me like we have
12 sensor means 218 sensing leading edge of the envelope or
13 check and sensor means 220 sensing the leading edge of the
14 check.

15 MR. TISHMAN: Right. And we also identify sensor
16 216 on page 16. And I'm not sure if that's referenced on
17 page 56, but it certainly is referenced on page 16.

18 JUDGE BRADEN: Okay.

19 MR. TISHMAN: Okay.

20 JUDGE BRADEN: And is it your -- is it
21 petitioner's argument that this 216, 218 and 220 are
22 actually sensors that are used for the alignment?

1 MR. TISHMAN: So to clarify our position, we do
2 not take the position that sensors 220 and 222 are used in
3 the alignment process. As for the alignment process, we
4 have explained that sensors 216 and 218 do the alignment.

5 And the way it works is as the check enters into
6 the transport path it's -- one of the first sensors that it
7 reaches is sensor 216. And I don't have a slide on it, but
8 it's best illustrated in Figure 2 of Swinton.

9 As you can see, one of the first sensors is 216.
10 And it's a thickness sensor. And what 216 does is it
11 determines is this an item that needs to be aligned. If
12 it's an envelope, it doesn't need to be aligned. However,
13 if it's a check, if it comes in skewed, we need to align it
14 so that the magnetic strip on the check lines up with the
15 magnetic reader. So 216 essentially starts off the whole
16 alignment process and answers the question do I need to
17 align this sheet item, yes or no.

18 JUDGE BRADEN: Okay. So how does that -- how does
19 that fit in with the claim language that says the -- at
20 least one processor is operative to cause the sheet to be
21 aligned by moving the sheet and sensing the sheet?

22 How does 216 which is basically a check yes or no

1 -- how does that in there cause the sheet to be aligned by
2 moving and sensing?

3 MR. TISHMAN: In operation with the processor it
4 begins the alignment process. So it causes the alignment
5 process to take place once that answer -- once that question
6 is answered, yes, it is an item that needs to be aligned.
7 And sensor --

8 JUDGE BRADEN: Okay.

9 MR. TISHMAN: Okay. Did you have anything
10 further? Sorry, Your Honor.

11 JUDGE BRADEN: No. Please go ahead.

12 MR. TISHMAN: Okay. And on slide 60 -- and just
13 to clarify for the record, this paragraph that's shown on
14 slide 65 is cited in pages 56 through 57 of the 529
15 petition.

16 Moving onto slide 66, we've shown -- and, again,
17 if you look at Figure 2 of Swinton, you'll see a different
18 -- a different way of seeing what I'm explaining. But as
19 the check moves along the transport path, it gets to that
20 print, slash, alignment control sensor 218 which is shown in
21 Figure 10 of Swinton at page -- at slide 66.

22 So what the -- what the print, slash, alignment

1 control sensor does is explained in that same paragraph we
2 were just looking at highlighted in different places on
3 slide 67. What it does is -- sensor means 218 determines is
4 the check positioned over that D-shaped friction roller 196
5 that we were just talking about and, if it is, begin
6 operation of the alignment motor 204 to move the check to a
7 correctly aligned position.

8 JUDGE BENOIT: And you're getting in your rebuttal
9 time.

10 MR. TISHMAN: Okay. And unless there are any
11 further questions, we will reserve the remaining time for
12 rebuttal. Thank you, Your Honors.

13 MR. WEEKS: Good afternoon. May it please the
14 board. May I proceed?

15 JUDGE BENOIT: Please do.

16 MR. WEEKS: Your Honors --

17 JUDGE BENOIT: First, would you like to reserve
18 any rebuttal time?

19 MR. WEEKS: I would, please. If you would give me
20 five minutes to address the issues that may come up with
21 regard to the motion to exclude.

22 I'd like to go ahead and jump pretty far into the

1 demonstratives, Judge Braden, and start with claim 14 since
2 there were quite a few questions on that. And as --

3 JUDGE BRADEN: That would be fantastic. I would
4 ask that you either step closer to the microphone or move it
5 up towards you. It's kind of hard to hear. Sorry.

6 MR. WEEKS: Can you hear me a little better now?
7 Great. Okay. So --

8 JUDGE BRADEN: Yes. Thank you.

9 MR. WEEKS: So starting with a quick discussion of
10 claims 13 and 14 -- and, as we've already established,
11 that's clearly an issue that goes across both the 529 and
12 the 530 IPRs.

13 And so starting with claim 13, what we have are a
14 claim that recites a first sheet moving transport and a
15 second sheet moving transport. And those sheet moving
16 transports define first and second sheet moving directions.

17 Now, that's important because those same
18 transports and sheet moving directions are repeated again in
19 claim 14; meaning that 13 provides the antecedent basis for
20 them. That will be significant later because we have to
21 read those two claims together. They must be read
22 consistently.

1 So if you take a look at 13, in the first sheet
2 moving transport, you see the first sheet moving transport
3 moves the sheet in the first sheet moving direction. We
4 then see those same terms appear in 14, the first direction
5 and the first sheet moving transport. Of course, the same
6 thing is true with regard to the second sheet moving
7 transport.

8 Now, I'd like to walk through the embodiment of
9 the 010 patent. And I'll do this quickly because I don't
10 think there's a lot of dispute here, although in
11 petitioner's -- in petitioner's reply there was maybe a
12 little more question.

13 So what the embodiment of the 010 patent describes
14 and is claimed in claim 14 of the 010 is a first sheet
15 moving transport that takes a sheet and moves it up into an
16 alignment area. And you can see this pictured in Figures 9
17 and 11.

18 So in Figure 9, you have the check 476 being driven
19 upward by that green transport. That's the belt flight 442
20 and the rollers 444. And it's moving upward into the
21 alignment area shown in Figure 11. We then have the second
22 sheet moving transport. And that consists of transverse

1 follower rollers and a transverse transport roll.

2 Now, you can't see them very well in these photos;
3 but I've indicated them with arrows in blue and sort of
4 shaded that area in where they appear. And what those
5 rollers do is move the sheet from left to right. And you
6 see that movement in claim -- in Figures 13 and 15.

7 And what's significant about this alignment area
8 or alignment mechanism is that the second sheet moving
9 transport moves the sheet until it is aligned with the
10 plurality of noncontact sensors 474.

11 Now, I'm not suggesting that the claim is limited
12 to moving it in this precise manner to align it with these
13 three noncontact sensors; but I am absolutely saying that
14 the second sheet moving transport must align it and that
15 there must be a plurality of noncontact sensors that are
16 used in calling the alignment of the sheet.

17 So one of the things that I'd like to focus in on
18 is moving the sheet in the second sheet moving direction.
19 And, Judge Braden, again, I agree with you completely in
20 your interpretation of this claim. It says the processor
21 must be operative to cause the sheet to be aligned by moving
22 in the second sheet moving direction.

1 So petitioner has identified two sheet moving
2 directions with regard to claim 13 that are the transport 38
3 -- that was the first sheet moving transport -- and the
4 transport 111, the second sheet moving transport. And to
5 make things a little easier to see we colored them in; so
6 that you have petitioner's first sheet moving direction
7 going generally left to right along that first transport and
8 then the second one vertical.

9 Now, I do want to make one comment to what
10 Mr. Tishman said. We don't agree that the vertical
11 direction is the second sheet moving direction of claim 14,
12 but I do agree with him that that is the second direction
13 that petitioner has identified as satisfying that claim
14 limitation.

15 So the problem that petitioner has here and has
16 tried to fix now is that it's impossible to align a sheet by
17 moving it in the two directions that you see here. And the
18 reality is that Swinton's transport or Swinton's alignment
19 mechanism just doesn't work that way.

20 And since we've already talked about it a little
21 bit, I'll skip ahead to slide --

22 JUDGE BRADEN: But what do you say about

1 petitioner's argument that Swinton lifts up and over at the
2 same time for the alignment process?

3 MR. WEEKS: Well, Judge Braden, going back to the
4 claim language, what the language says is that the movement
5 in the second direction must cause the sheet to be aligned.
6 So we have to be looking at not just where the sheet moves,
7 it's the movement that aligns the sheet; right?

8 So in terms of Swinton -- and if you look at slide
9 31 -- and I apologize. I haven't been giving you slide
10 numbers. I'll do a better job.

11 If you look at slide 31, in Figure 8, as we've
12 been discussing, the direction of the alignment is generally
13 from left to right. So here we have a figure where we're
14 looking down the transport path. That's the petitioner's
15 first direction -- is into the screen in front of you.

16 And the actual direction of alignment is from left
17 to right along the green arrow, but what petitioner has
18 identified in the petition is vertically up and down as
19 indicated by that red arrow.

20 Now, yes, it is true --

21 JUDGE BRADEN: So -- wait. I want to
22 make sure I understand this. So your argument is that their

1 identified second sheet moving direction isn't a vertical up
2 and down, it is only down.

3 MR. WEEKS: No. No, Your Honor. I wouldn't limit
4 it that way. I'm fine -- yes, they did point to only down.
5 But the reality is if you pick a check up, you have to put
6 it down too.

7 JUDGE BRADEN: Okay.

8 MR. WEEKS: So I don't -- I don't think that
9 really matters one way or the other.

10 But with regard to that vertical motion of the
11 check, we do know that that doesn't align the check.
12 There's nothing about picking a check up and putting it down
13 in the transport path that aligns it.

14 And, in fact, we know that because Dr. Kurfess
15 told us that in his declaration. He said the motion -- the
16 vertical motion of the check is not what causes the check to
17 be aligned and that moving a check up and down relative to
18 the transport path will not cause a misaligned check to
19 engage the alignment lugs.

20 And that's the key problem. It's the movement
21 from left to right that causes the sheet to engage the
22 alignment lugs, not the vertical motion.

1 We questioned Dr. Kaufman about a hypothetical
2 that's similar. And when we asked if we were to pick a
3 check up and set it back down in Swinton's transport, it
4 would be in the same alignment, right -- and he confirmed,
5 yes, that's correct. If it starts out unaligned and you
6 don't align it, then it will be unaligned when you put it
7 back down.

8 And the point there is that simply moving a check
9 up and down has nothing to do with the alignment process of
10 Swinton. It's the left to right motion.

11 Now, one thing I do want to point out here is that
12 what petitioners have now come back and identified in their
13 reply is them saying, well, if the vertical motion of the
14 sheet doesn't constitute the second sheet moving direction,
15 they have now argued that it is the left to right motion
16 that can satisfy the second sheet moving direction. The
17 problem with that being we're now looking at three different
18 directions. And the claim requires two.

19 So here on Figure 8 on the right you have -- if
20 you labeled the direction of alignment to be petitioner's
21 new second sheet moving direction, that would be left to
22 right. And then you have a movement up and -- the first

1 direction would be into the page. On the left, you have two
2 different sheet moving directions. And, as I mentioned
3 earlier, you have to read claims 13 and 14 consistently.

4 Now, from petitioner's reply what they've said is
5 that the left to right motion of the check caused by the
6 D-shaped roller satisfies claim 14 under patent owner's new
7 interpretation. I'd like to say for one that's not a new
8 interpretation. That's just the plain reading of the claim.
9 And we've been interpreting it consistently throughout.

10 But the other thing here is that I do not think
11 this is actually responsive to anything in the patent
12 owner's response. I do believe it is a new position. And I
13 would encourage you not to consider it for that reason.

14 But if you do, note that it only says claim 13.
15 And petitioner has only made this argument with respect to
16 claim 13 not with -- I'm sorry. With respect to claim 14,
17 not with respect to 13. And so now we have a problem of
18 reading the claims inconsistently. It's not possible --

19 JUDGE BRADEN: But wait a minute. How is that?
20 Because in 13 they're talking about pathway 111 going up and
21 down. And they're talking about friction roller 196 going
22 up and down. So aren't those the same? Aren't they the

1 same?

2 MR. WEEKS: Sure, that's the same direction of
3 movement vertically up and down. But what the new position
4 here provided in the reply is -- is that it's the left to
5 right motion. So that would be the new second direction.
6 So we're not talking about --

7 JUDGE BRADEN: If I recall correctly, they were
8 saying that there is movement in the second sheet moving
9 direction up and down by friction roller 196 and then
10 there's an additional third movement left to right that
11 comes in that pushes the check then up against lugs 172.

12 MR. WEEKS: Yes, Your Honor. You're absolutely
13 correct. There are effectively three motions in Swinton's
14 mechanism. But they presented two separate identifications
15 of what that second sheet moving direction is.

16 The first one is vertically up and down; right?
17 And, as we just discussed, that vertical motion is not what
18 aligns the check and so, therefore, I would argue is not the
19 motion that's in claim 14; right?

20 JUDGE BRADEN: But what do you say about
21 petitioner's argument that the claims are not limited to
22 only two directions, that there could be a third direction

1 that also helps with alignment, that it's not restricted to
2 alignment only by moving the sheet in the second sheet
3 moving direction?

4 MR. WEEKS: I don't dispute that it doesn't say
5 there can be no other directions, but the plain language of
6 the claim says that the movement in the second direction is
7 what has to cause the sheet to be aligned. And the movement
8 vertically is not what causes the sheet to be aligned. It's
9 the movement from left to right -- is what causes the sheet
10 to be aligned.

11 And having recognized that error in the original
12 petition, that's why petitioners have now come back in the
13 reply and said that the movement from left to right can
14 satisfy claim 14.

15 And my point there is that that is -- that
16 contradicts the identification of the first and second sheet
17 moving transports and directions in claim 13. So we're now
18 reading the claims inconsistently even though claim 13
19 provides the antecedent basis for claim 14.

20 Does that answer your question?

21 JUDGE BRADEN: I believe so, yes. Thank you.

22 MR. WEEKS: Your Honors, I'd like to move on and

1 discuss the alignment sensors of -- generally with respect
2 to the 010 patent. And I believe that the plain language of
3 this claim requires that these sensors be used to cause the
4 alignment. And we know that for a couple of reasons.

5 The plurality of noncontact sensors have to be
6 disposed along the first direction. And that first
7 direction just so happens to be the direction in which the
8 sheet is aligned. They also are in operative connection
9 with the at least one processor. And that processor, again,
10 is the thing that causes the alignment of the sheet.

11 And then finally we get to the actual language of
12 limitation C itself. It reads, cause the sheet to be
13 aligned by doing two things; by, A, moving the sheet in the
14 second sheet moving direction, which we've just discussed, and
15 sensing the sheet with a plurality of noncontact sensors.
16 What the claim does not say is that it simply causes the
17 alignment process to start.

18 Now, if you'll look at slide 38, we can compare
19 that functionality to what we saw briefly in the embodiment
20 of the 010 patent where we said the transverse transport
21 rolls move the document 476 in a direction transverse to the
22 direction of prior movement. And they do so until a

1 longitudinal edge 478 is aligned with the alignment sensors.

2 So our interpretation of claim 14, looking briefly
3 back at slide 37, is perfectly consistent with the
4 embodiment in the 010, which requires that the noncontact
5 sensors be used to align the check.

6 Now, notably petitioner's expert actually agrees
7 with us on this point. We asked Dr. Kaufman during his
8 deposition about the last limitation of claim 14. And we
9 asked him where it recites the plurality of noncontact
10 sensors, would you agree that those noncontact sensors are
11 used during the process of aligning the sheet.

12 And his response to that was that the sensors tell
13 the processor where the edge of the sheet is. And that
14 information the processor uses to de-skew the check or
15 document or whatever it is. That's a plain reading of what
16 this is getting at.

17 So here you have petitioner's expert agreeing that
18 those sensors have to be used to align the sheet. And, of
19 course, you also have Dr. Kurfess, patent owner's expert,
20 who says the same thing. And for your reference, you can see
21 that in his 529 declaration at paragraph 86.

22 So having laid out what the claim means, I'd like

1 to spend a few minutes going through --

2 JUDGE BRADEN: So -- hold on. I have
3 more questions. So does this indicate then that the sensor
4 has to be used during the entirety of the alignment process?

5 Because I'm looking at the claim. And it says to
6 cause the sheet to be aligned. Is there something in there
7 that's limiting this to being functional and being used
8 during the entirety of the alignment process?

9 MR. WEEKS: Your Honor, I don't read anything in
10 there, in the specification to say that it has to be used
11 during the entirety of the alignment process. But I think
12 what's important is that it does have to be used during the
13 process of aligning the sheet, which is what Dr. Kaufman and
14 Dr. Kurfess said.

15 So what I mean by that is there has to be some
16 sort of feedback going to the processor essentially
17 indicating the degree of skew or the position of the check.
18 There has to be something helping the processor actually
19 know whether the sheet has been aligned or not.

20 I'm not talking about a sensor that just happens
21 to be in the transport path or one that starts or stops, you
22 know, one that says maybe you should align this because it's

1 a check or don't align it because it's an envelope. It has
2 to give feedback that is indicative of the alignment.

3 Does that answer your question?

4 JUDGE BRADEN: I guess I'm trying to find that
5 language in claim 14.

6 MR. WEEKS: Well, I think the language is just the
7 last limitation where it says that the noncontact sensors --
8 and you can slide back to slide 37. It says cause the sheet
9 to be aligned by sensing the sheet with a plurality of
10 noncontact sensors.

11 So those sensors have to be used to cause the
12 sheet to be aligned. And if you look at the expert
13 testimony and the specification, I think the only --

14 JUDGE BRADEN: So isn't it if you have
15 a sensor that says, hey, this is skewed, turn on the
16 alignment process, because I know once the alignment process
17 goes through it will be aligned, is that not enough to
18 satisfy this limitation of cause the sheet to be aligned by
19 sensing the sheet with a plurality of noncontact sensors?

20 MR. WEEKS: Your Honor, if you had a sensor or a
21 series of sensors that were gathering information indicative
22 of the skew of the check and providing that information to

1 the processor which then started the alignment process, I
2 would say that that would satisfy this claim limitation.

3 JUDGE BRADEN: And it is patent owner's position,
4 though, that petitioner has not shown that?

5 MR. WEEKS: That's absolutely correct. And I will
6 walk through those now if that is --

7 JUDGE BRADEN: Okay.

8 MR. WEEKS: -- unless there are any more questions
9 on this.

10 So there -- as we established earlier, there were
11 really four sensors that petitioner at least initially
12 pointed to as alignment sensors that would satisfy this last
13 limitation of claim 14. Those are 216, 218, 220 and 222.

14 And on slide 40, I've circled those in red and have
15 them indicated in Figure 2 of Swinton on the right. I also
16 have highlighted the alignment mechanism in blue so that you
17 can get some sort of frame of reference as to where these
18 sensors are located versus the alignment member itself.

19 Now, I won't spend much time on it; but I do think
20 it's worth noting that 220 and 222 apparently are no longer
21 at issue as Mr. Tishman conceded that they are not involved
22 in the alignment process any more, despite being both listed

1 in the petition and having Dr. Kaufman opine that they were.

2 Probably the reason for doing that is because
3 when we asked Dr. Kaufman about a paragraph in his
4 declaration that said noncontact sensors 218, 220 and 222
5 are used during the alignment process, he said that that was
6 somewhat poorly worded and agreed that those sensors are not
7 used during the process of aligning the check.

8 So the two sensors we have left are 218 and 216.
9 And I'd like to focus on 218 for a minute. That's on slide
10 43, Your Honor. The specification of Swinton is clear with
11 regard to 218. The role of the sensor is to sense the
12 leading edge of a check or an envelope. And you can see
13 that in these three quotes you have on the screen.

14 The reason it does that, if you read the bottom
15 quote, is so that the processor knows when the check is
16 positioned above the friction rolls 196 and is in a position
17 to be aligned. There is no other purpose for the sensor.
18 And it has nothing to do with the process of aligning a
19 check. It's simply to tell the processor where the check is
20 at that current point in time.

21 Now, we asked Dr. Kaufman about potential other
22 uses for the sensor during his deposition; maybe, say, for

1 alignment. And when asked whether he was aware of any other
2 uses for the sensor 218 he said, no, he is not aware of any.

3 He went on to actually confirm that the alignment
4 process does not require the 218 to be part of it. So
5 there's really no dispute here between patent owner or even
6 petitioner's expert. 218 has nothing to do with aligning
7 the check.

8 So one thing that I think we should note is that
9 in the words of the 010 patent, 218 is not an alignment
10 sensor. It's a position sensor. And if you would go look
11 at column eight of the 010 patent -- and I'm going to read
12 from lines 23 to 33. It says, position sensors --

13 JUDGE BRADEN: Of the 010 patent?

14 MR. WEEKS: Yes, ma'am.

15 JUDGE BRADEN: Okay.

16 MR. WEEKS: It says position sensors for documents
17 are included in the document alignment area and such sensors
18 are operative to sense when the document has moved
19 sufficiently into the alignment area so that the document
20 can be aligned.

21 That's the 010 patent calling that a position
22 sensor. And that's the exact function of sensor 218 in

1 Swinton. There's no difference.

2 Now, while we're on sensor 218, the petitioner
3 came back and raised a new argument in its reply that argues
4 that sensor 218 could actually be implemented as multiple
5 sensors.

6 And that obviously, Your Honors, was the subject
7 of our motion to exclude a portion of Dr. Kaufman's
8 declaration saying effectively the same thing. And we, of
9 course, stand by that and would like for you to strike that
10 portion of his declaration.

11 And the reason for that is because whether or not
12 218 can be implemented as multiple sensors has nothing to do
13 with the issues that were raised in patent owner's response.
14 The issue here is whether sensor 218 is an alignment sensor
15 within the meaning of claim 14, not whether or not it could
16 possibly be implemented by one of ordinary skill in the art
17 as more than one sensor.

18 Even if you do want to consider that argument,
19 though, I'd urge you to look a little deeper into Dr.
20 Kaufman's rationale there. The function of the sensor is
21 simply to tell the processor where the check is. There's no
22 need to add another sensor there to do that. One is going

1 to say yes. It's going to sense the leading edge of the
2 sheet and say it's here or it's not. And that's the end of
3 it.

4 There's no need to add duplicative functionality.
5 There's only one leading edge of the check. So adding two
6 sensors to do that job doesn't accomplish anything. That's
7 just merely a way of petitioners coming back in case none of
8 the other sensors -- in case you disagree with them that any
9 of the other sensors are actually alignment sensors.

10 The last sensor that the petitioner has relied on
11 is sensor 216. And sensor 216 is a -- which is on slide 45,
12 Judge Braden. And sensor 216 is a thickness sensor. It's
13 used for one purpose. And that is to determine the
14 thickness of deposited media so that the processor can
15 decide whether or not the item that was deposited is a check
16 or an envelope.

17 Now, we confirmed with Dr. Kaufman that there was
18 no other purpose for the sensor during his deposition. And
19 his testimony was that he didn't recall the thickness sensor
20 being used for any other purpose; meaning it's not used for
21 alignment. It just tells whether or not -- it just tells
22 the thickness of the deposited item.

1 And, as I've discussed earlier, sensors that do
2 things other than align the sheet or provide feedback for
3 aligning the sheet are not alignment sensors or are not
4 noncontact sensors within the meaning of claim 14.

5 Your Honors, if we have any questions on claim 13,
6 14 or the disclosures, I'm happy to answer them. Otherwise,
7 I will go back in the presentation and discuss a little bit
8 about Jones and motivation to combine.

9 JUDGE BRADEN: I actually do have one question.
10 And it regards Swinton's Figure 10, item 218 where it refers
11 to sensor 218 as the alignment control sensor.

12 MR. WEEKS: Yeah. Absolutely.

13 JUDGE BRADEN: Is that not indicative or what's
14 your argument that that is not indicative to a person of
15 skill in the art that sensor 218 is not responsible for
16 alignment or alignment control?

17 MR. WEEKS: Well -- so, for one thing, I will note
18 that that's only in one figure and it calls it a print,
19 slash, alignment control sensor. But I think what we really
20 have to do is look at the function of that, because it
21 doesn't really matter what Swinton calls it. I think
22 there's enough description in Swinton about 218 to say

1 exactly what it does. And we have to compare that
2 functionality in Swinton to what the 010 patent says.

3 And, as I mentioned earlier, because what Swinton
4 -- the sensor 218 senses the leading edge of the check in
5 order to tell the processor when the check is in a position
6 to be aligned. In the words of the 010 patent, going back to
7 column eight, that's a position sensor. It's not the
8 sensors that are being used to align the sheet.

9 And so, yes, Swinton does call it a print, slash,
10 alignment control sensor; but it doesn't actually control
11 alignment within the meaning of claim 14 of the 010.

12 Does that answer your question, Judge Braden?

13 JUDGE BRADEN: I think I understand your position.
14 Thank you.

15 MR. WEEKS: Thank you.

16 Okay. I'd like to go back briefly and talk about
17 a few things that Mr. Wheeler mentioned earlier. And one of
18 those is the multiple embodiments of Jones. And I won't
19 dwell on this. Excuse me, Your Honors. I apologize. And,
20 Judge Braden, I'm on slide number three for your reference.

21 One of the things that Mr. Wheeler mentioned was
22 the multiple embodiments of Jones. It seems that there's no

1 longer a debate about whether or not there are two
2 embodiments. There are. One is an ATM. And one is a
3 currency counter.

4 The thing that's important here is that, as Dr.
5 Kurfess told you, there's no disclosure that the ATM and
6 currency counter are anything other than entirely different
7 machines.

8 Now, petitioner initially unquestionably relied on
9 the ATM. And we specifically walked through today why
10 they're doing that earlier. But they also try to walk back
11 from their reliance on the currency counter embodiment.

12 And if you take a look at slide six, you see a
13 quote from the petition, which is the -- actually a quote
14 from the claim chart at page 25 that we were discussing
15 earlier citing the paragraph 143.

16 Now, 143 unquestionably discusses the table-top,
17 the stand-alone currency counter unit. The problem is this
18 isn't just one citation, Your Honors. If you go through and
19 look at pages 25 through 58 of the petition -- those are the
20 claim charts -- this same paragraph is cited over 11 times.

21 Now, they also relied on the testimony of Dr.
22 Kaufman and particularly paragraphs 30 and 31 where he

1 identifies the currency counter as satisfying certain
2 limitations. One example of that is seen in the bottom of
3 slide six, which says that Jones shows such a sheet item
4 transport in the device, namely, the curved guideway 211 in
5 yellow and the transport plate 240. And you can even see on
6 the right the figure that he annotated himself in the
7 currency counter embodiment identifying that limitation.

8 I think it's clear that they initially at least in
9 the petition relied on this embodiment. And I'm not aware
10 of any authority that says that a see also cite doesn't mean
11 your -- doesn't mean that that doesn't support your
12 position. I know that was a double negative.

13 So the question is why is the petitioner trying to
14 walk away from this now. And I appreciate Mr. Wheeler
15 recognizing that the petition wasn't clear earlier. And I'd
16 like to point out that it was petitioner's job to make the
17 petition clear from the beginning.

18 But the reason that they are walking away from it
19 is because Dr. Kaufman, their expert, didn't realize that
20 they were separate machines. When we asked him during his
21 deposition how he would describe the machine of Jones as
22 shown in Figure 1S, he said this is one embodiment of the

1 inside, what presumably is behind the front cover of that
2 machine. So Dr. Kaufman thought that instead of being
3 separate machines that one was physically inside the other.

4 And why that matters is because the Federal
5 Circuit has been clear that you have to provide an explicit
6 obviousness rationale. You have to provide an obviousness
7 analysis when there are multiple embodiments even when
8 they're within the four corners of the same document.

9 These are two separate and stand-alone machines,
10 not just minor tweaks to one machine that are described
11 within the confines of another document. And I think if you
12 go look in --

13 JUDGE BEGLEY: Sorry to interrupt.

14 MR. WEEKS: Go ahead.

15 JUDGE BEGLEY: I'm not sure where this
16 gets you. If petitioner is correct that
17 -- let's just say they relied on both; right?

18 MR. WEEKS: Sure.

19 JUDGE BEGLEY: And now petitioner has said you can
20 just ignore the see also cites; right? If they have made a
21 case that goes through with one embodiment in full, I'm not
22 sure where this argument leads.

1 Is there a particular limitation where they needed
2 to rely on the second embodiment that we're now ignoring?
3 Do you see what I'm saying? Like is there --

4 MR. WEEKS: I do.

5 JUDGE BEGLEY: -- is there a limitation where it's
6 necessary? Otherwise, we can just go on one.

7 MR. WEEKS: Sure. I do understand your question,
8 Your Honor. I think the problem is, one, it evidences the,
9 you know, lack of clarity in the petition. It didn't
10 distinctly point out their grounds in their petition. And I
11 also think it matters when you start looking at the proposed
12 combinations.

13 And while petitioners are saying that, oh, we can
14 only rely on the ATM embodiment and it discloses all of the
15 features, I think when you look at motivations to combine
16 where they're saying, well, you know, you can take the ATM
17 of Jones and use the storing mechanism of Kozima and the end
18 result of that would be a smaller or a more reliable
19 machine, there's no basis in -- in the record at all for
20 that opinion unless you're going to start looking to the
21 currency counter of Jones.

22 So, no, on an element-by-element basis I can't say

1 there's nothing -- I can't say that there is an element
2 that's missing from the ATM embodiment, which they rely on
3 it, not off the top of my head; but the disclosures aren't
4 there to support the rest of their rationale if you only
5 rely on the ATM. Does that make sense?

6 JUDGE BEGLEY: Yes. Thank you.

7 JUDGE BRADEN: But if in the 529 petition they provide
8 five rationales
9 for combining Kozima and Jones -- and one of those
10 was, you know, smaller, faster, whatever it was.

11 But -- you say that's based on the currency
12 counter. But the other four reasons such as,
13 Jones contemplating having a two-bin configuration, Kozima
14 has two bins and a mechanism for sorting into those two bins
15 -- I guess I follow on with Judge Begley -- is where does
16 that get you if the ATM embodiment with Kozima reaches all
17 the limitations and there's four other reasons to combine.

18 MR. WEEKS: Well, for one, Your Honors, I -- and I
19 was going to go through this in a little bit, but I'm glad
20 you asked. It goes to the credibility of Dr. Kaufman. You
21 know, he obviously didn't understand that these were
22 separate embodiments.

1 And we are having to rely on his testimony
2 regarding motivations of one of ordinary skill in the art
3 and whether or not they would combine these machines. So I
4 do think that weighs heavily and should impact your decision
5 with regard to his positions.

6 You know, the other thing is that providing a
7 motivation to combine in and of itself just isn't
8 sufficient. You can't say here are a bunch of reasons why.
9 The board and Federal Circuit cases have even said you have
10 to provide how. And that was recognized by petitioner's
11 counsel earlier today even.

12 And I think that's notable because when you walk
13 through the motivations to combine one by one -- and I would
14 like to start doing that on slide 11 with regard to the 529
15 IPR -- you're going to see that they're either contradicted
16 by the testimony of their own expert or they're really
17 nothing more than just conclusions. There's not actually an
18 analysis there.

19 So starting with slide 11, the first reason that
20 petitioner provided to combine Jones with Kozima was that
21 Kozima provides an extremely simple and compact construction
22 for a small size ATM.

1 Now, there's absolutely no disclosure in Jones
2 regarding the size of its ATM or the storage bins. So
3 during the deposition, we asked Dr. Kaufman do you know
4 whether Kozima is more compact than the currency counter
5 embodiment disclosed in Figure 1T of Jones. And his
6 response was, not offhand. There's no way to know.

7 We followed up and asked whether or not the
8 specification provided detail that would allow him to know
9 how big it was. And his response was, that's not part of
10 the patent.

11 So while petitioner contends that combining these
12 two references would result in a smaller size ATM, there's
13 actually nothing in the patents or in the record that can
14 support that conclusion. It's just a hypothetical why but
15 no how.

16 The same is similar with regard to the second
17 reason, which is that Kozima would provide a simplified
18 structure with fewer moving parts and, therefore, fewer
19 components that could potentially break down and require
20 service.

21 Now, we again asked Dr. Kaufman if he knew how
22 many moving components were in Kozima's bill sorting

1 mechanism. And his response was, not offhand. He continued
2 on to say that he would have to spend months in front of a
3 CAD program or in front -- in a machine shop actually
4 designing and building the system in order for him to know
5 that. Quote, you can't necessarily just select and say,
6 well, this is going to be less likely to jam or this is
7 going to be simpler or whatever.

8 The point here is that once again, the petition and
9 Dr. Kaufman are giving reasons without any support. And
10 he's admitted during his deposition that there is no support
11 for this position.

12 Reason number three with regard to Jones is
13 similar. And the petition says that a goal of Jones's ATM
14 -- and I'm on slide 13. A goal of Jones's ATM is to
15 transport checks or bills into separate compartments. And
16 Kozima teaches a specific mechanism for achieving this goal.

17 Now, when we asked Dr. Kaufman about whether the
18 common goal of transporting bills or checks into a specific
19 mechanism would have motivated a person of ordinary skill in
20 the art, presumably someone like Jones, to use the structure
21 of Kozima his response was, why would he, I don't know.
22 There is no reason or rationale underlying this particular

1 motivation.

2 JUDGE BRADEN: But when I look at Jones, Exhibit
3 1004 at paragraph 140, it specifically says that your output
4 receptacle can consist of dual bins. And then it cites to
5 Figure 1E. And it says that that dual bin, first bin,
6 second bin -- you can either do identified documents,
7 unidentifiable documents. You could do it -- separation of
8 currency of particular denominations.

9 I'm not sure where pointing to Dr. Kaufman saying
10 I don't know why they would do this -- when it's almost like
11 Jones has this right here.

12 MR. WEEKS: Sure. Yeah. Absolutely, Judge
13 Braden. Jones does say that there are two output
14 structures, but the point here is we -- that the petitioners
15 are required to show why a person of ordinary skill in the
16 art would have combined these.

17 And when we asked Dr. Kaufman during his
18 deposition why that would be done, it's not just sufficient
19 to say, well, this has two and this has two, therefore,
20 we're done. The point is there was no reason or no
21 rationale that he could articulate as to why someone would
22 put them together.

1 One of the other motivations to combine provided
2 by the petitioner was that Kozima's payout mechanism --
3 incorporating that into Jones would allow deposited bills to
4 be paid out for customers.

5 Now, that has a couple of problems insofar as it
6 overlooks some elements of Jones. One of those being that
7 Jones already includes a separate dispensing unit. So it
8 already has something to pay out bills to customers.

9 It also only has a one-way path from its input
10 receptacle to its output receptacle. And the problem there
11 is that if you're going to incorporate Kozima to have this
12 payout functionality within the machine, there's no way in
13 Jones to actually make that work. There's nowhere for the
14 bills to go. So they can't -- you can't just incorporate
15 this machine and have it work. Once again, the petitioner is
16 saying why and not how.

17 And then you get into a bigger problem with regard
18 to this motivation when you look at claim 25. And I'm on
19 slide 15. Claim 25 reads, the machine according to claim 24
20 wherein the sheet comprises a check.

21 Now, it's common sense that tells us if you were
22 to go deposit a check into an ATM that you don't want that

1 check to be given back out to the person that's standing in
2 line behind you. So a person of ordinary skill in the art
3 recognizing that would have known that you don't want to
4 incorporate payout functionality of Kozima with respect to
5 Jones or else you're going to start doing that.

6 If you take a check in, deposit it in Kozima's
7 functionality and then pay it back out, well, now you have a
8 security problem. As Dr. Kurfess told us, you don't want to
9 do that because of the sensitive nature of the information
10 printed on checks including account numbers and routing
11 numbers. Of course, if the combination were made, you would
12 also have to reconfigure Jones's transport, as I mentioned.

13 Now, the petitioners have come up with a slightly
14 new theory in their reply and said, well, you can actually
15 eliminate one of the output bins of Kozima or eliminate the
16 payout functionality from one of those storage chambers.

17 Now, for one, that is a new theory that was not
18 previously addressed. And it's completely absent in the
19 petition. But, two, it doesn't work in practical terms.

20 If you think about it, you would have one bin
21 dedicated to checks. And then you would have another bin
22 dedicated to cash. So if a user came and made a deposit,

1 checks would go in one and cash would go in another. And
2 according to the petitioners you would just pay the cash
3 back out to other users.

4 The problem is cash can come in ones, fives, tens,
5 twenties, maybe fifties, hundreds. I don't tend to carry
6 those myself. But if someone is going to go put those into
7 an ATM, you don't want that being redistributed to another
8 user. You need to be able to control the denomination.

9 So I think that's notable, because in Kozima it
10 was a vending machine. And it worked fine to have payout
11 functionality in two storage chambers, because in a vending
12 machine you have ones. Maybe you even accept fives. But
13 it's pretty uncommon for a vending machine to accept
14 twenties or hundreds.

15 So where you have a smaller denomination of
16 currency, it could work, but here one of ordinary skill in
17 the art would appreciate that there is no way to make this
18 functionality compatible with the full-function ATM of
19 Jones.

20 The last motivation to combine provided by the
21 petitioners with respect to Jones and Kozima is that
22 modifying Jones's ATM to include Kozima's bill sorting

1 mechanism would be merely the use of a known technique to
2 improve similar devices in the same way; obviously parroting
3 language from KSR.

4 Well, Your Honors, this is nothing more than a
5 legal standard. At very best, it's a bald conclusion.
6 There's no analysis or explanation, because in reality, the
7 devices would not be performing the known functions in a
8 known way.

9 We talked about incorporating the payout
10 functionality of Kozima into Jones, but in order to do that,
11 we would have to either eliminate part of the payout
12 functionality or we would have to re-engineer Jones to have
13 this new transport mechanism in order to get the bills back
14 out of storage; neither of which are addressed in the
15 petition.

16 But the problem with regard to this particular
17 motivation is that that's not using a known component in a
18 known way. That's modifying a known component and using it
19 in a previously unknown way. And that's not obvious
20 following the rationale from KSR.

21 I'd like to transition quickly to talking about
22 the motivations to combine in the 530 IPR. And I think

1 you'll see that there are similar deficiencies. Obviously
2 in the 530, we're talking about the motivation to combine
3 Swinton and Nobuaki.

4 Now, the first reason provided by petitioners is
5 that incorporating Nobuaki's device allows for less frequent
6 refills of the currency dispensing portions of Swinton
7 because deposited bills can be paid out to other customers.

8 Well, as an initial matter, Swinton tells us very
9 early on in the specification that its disclosures are
10 primarily directed to a check depository. So all of the
11 features and transports and storage areas that we've been
12 talking about today are directed to storing checks not to
13 storing cash. And obviously for all of the reasons that we
14 just discussed, you don't want your check being paid out to
15 another user.

16 Swinton also has the similar problem of having a
17 one-way transport. And Swinton's apparatus tin is -- is
18 configured for processing checks along a one-way path;
19 meaning that it goes from the entry slot 14 to the two
20 storage bins 138 and 140, not back the other way.

21 So, again, if you were to incorporate Nobuaki for
22 the payout functionality, you still have no way of getting

1 the bills back out of the system.

2 The second motivation to combine in the petition
3 is that it would allow for quicker service as withdrawal and
4 deposit operations can be performed simultaneously.

5 Now, I think we should note that Swinton actually
6 despite being directed to a check deposit system, already
7 includes a currency dispenser; meaning there's something to
8 allow users to make deposits in Swinton and something to
9 allow them to receive cash.

10 So there's no need for this redundant
11 functionality that the petitioner has alleged. What you're
12 doing is adding more parts. There's going to be more
13 reliability issues. And it's going to be undesirable
14 according to the motivations that the petitioner previously
15 provided.

16 The third reason is that a person would have
17 recognized the goal of Swinton's ATM is to transport checks
18 or bills into separate compartments. And Nobuaki teaches an
19 improved mechanism for achieving this goal.

20 But there's not a substantive response to this,
21 because there's really no substance here. Again, this is a
22 bald conclusion. It's been repeatedly rejected by the

1 Federal Circuit in cases like *In re Nuvasive* where the
2 Federal Circuit vacated and remanded the board's findings of
3 obviousness because they amounted to nothing more than
4 conclusory statements. Conclusory statements are
5 insufficient alone. A finding of obviousness must be
6 supported by a reason of explanation.

7 The last motivation that the petitioner provides
8 with regard to Swinton and Nobuaki is -- the combination is
9 combining prior elements according to known methods to yield
10 predictable results again invoking KSR and I would submit to
11 you is deficient for the exact same reasons that that
12 similar language with regard to the 529 petition was.

13 So in conclusion on these motivations to combine,
14 it is our position that none of these motivations can
15 support a finding of obviousness because the motivations are
16 contradicted by the evidence in the record. They're
17 contradicted by patent -- by petitioner's own expert, in fact.

18 They also are generally just bare legal
19 assertions. They're conclusions. They may state why, but
20 they don't state how. And it's been made clear, as
21 Mr. Wheeler acknowledged, that you have to include some
22 rationale as to how the references will be combined. I

1 think if you go back and look at the petition, however, you
2 will see that none are there.

3 Judge Braden, I'm going to skip to the very end of
4 my presentation. It's the last two slides. I did a
5 terrible job of that. But I'd like to talk for a minute
6 about the credibility of Dr. Kaufman since you asked
7 earlier, Judge Begley, about why the two embodiments of
8 Jones matter.

9 Well, I think it goes to his credibility here.
10 And Dr. Kaufman's credibility has been compromised in
11 several instances. One of those is that he used a hindsight
12 bias analysis which the Federal Circuit has rejected. If
13 you look at a quote from his deposition, he says he only
14 looked at how these various documents, the prior art --
15 whether the claim language read on the documents.

16 So what he's doing there is he's sitting with the
17 010 patent, reading the claims and then trying to compare
18 that to the prior art and hunting and pecking to find the
19 elements that he needs.

20 And he also failed to understand the prior art
21 references. Obviously, I reference Jones here, but he also
22 didn't fully consider Swinton. In fact, during his

1 deposition -- and this is on pages 130 -- 183 and 184 -- he
2 admitted that parts of his declaration were inaccurate, that
3 he had not thought in much detail about Swinton at the time
4 he wrote his declaration and that if he had the chance to
5 write it again, he would have worded it differently.

6 You know, that comes through during his deposition
7 when he contradicted himself. He contradicted himself
8 regarding motivations to combine in saying that you could
9 combine references or you would do so to make things smaller
10 or faster or more reliable but then admitting that he had no
11 basis for those opinions.

12 And it also comes through with regard to Swinton's
13 sensors where he immediately caved and said, actually, no,
14 not a single one of those sensors, 216, 218, 220 or 222, are
15 used during an alignment process.

16 One final example that I have for you of him
17 providing no opinions with no bases is that in his
18 declaration, Dr. Kaufman says that choosing features or
19 modules to include or omit from an ATM is generally a
20 business decision.

21 The problem with that is that Dr. Kaufman doesn't
22 have any business experience in the ATM industry. In fact,

1 he said, I've never been involved with ATMs and that his
2 technical involvement is peeking into the slot as he was a
3 customer in a drive-through.

4 So while Dr. Kaufman has provided us plenty of
5 opinions ranging from issues on motivation to combine to the
6 specific disclosures in the references, I think it's clear
7 that he didn't fully appreciate, as he -- as he said during
8 his deposition, the disclosures in many of those references
9 and proceeded to provide opinions on them anyway. Your
10 Honors --

11 JUDGE BRADEN: So, real quick, in -- I believe --
12 was it Dr.
13 Kurfess's declaration?

14 He notes that the level of skill in the art at the
15 time of the invention -- he says would have been somebody
16 with a combination of experience and education in mechanical
17 engineering typically consisting of a minimum of a
18 bachelor's degree in mechanical engineering or a related
19 field and at least four years of working experience in the
20 area of mechanical engineering.

21 And he says that that falls within the definition
22 of a person of ordinary skill offered by Dr. Kaufman and

1 which the board adopted in the decision to institute.

2 I note that patent owner doesn't state in its
3 response or any of its papers its assessment of the level of
4 skill in the art. Do you stand by Dr. Kurfess or are you
5 accepting of the level of skill in the decision to
6 institute? What say you?

7 MR. WEEKS: We accept the level of skill in the
8 decision to institute. I will note that while I certainly
9 don't disagree with Dr. Kurfess, I don't think it matters
10 for purposes of this proceeding which level of skill is
11 used.

12 JUDGE BRADEN: Fair enough. Thank you.

13 MR. WEEKS: Thank you, Your Honors.

14 MR. WHEELER: And, Your Honor, while -- Your
15 Honors, while we rejigger here, roughly how much time did we
16 end up leaving ourselves for rebuttal?

17 JUDGE BENOIT: You have 17 minutes.

18 MR. WHEELER: 17 minutes. Perfect. Thank you.
19 Mr. Tishman will start off. And then I'll have a few
20 comments.

21 MR. TISHMAN: Thank you, Your Honors. Just a
22 moment to plug in the projector here.

1 Your Honors, with respect to the alignment, there
2 are two issues that came up that essentially relate to
3 causation. And the first issue -- sorry. The presentation
4 is not coming up. One moment, please. I think I got it.

5 All right. And the first issue relates to the
6 alignment process --

7 JUDGE BRADEN: Where are you?

8 MR. TISHMAN: I'm on slide 64.

9 JUDGE BRADEN: Thank you.

10 MR. TISHMAN: Sorry. I should be on slide 54 now.
11 So I'm moving now to slide 54, which relates to the D-shaped
12 roller 196.

13 Mr. Weeks said in his presentation that the
14 movement in the second direction must cause the alignment.
15 And I just wanted to clarify that that's slightly different
16 from what the claim actually says. And what the claim says
17 is that it must cause alignment by moving in the second
18 sheet moving direction.

19 So the difference is the claim language does not
20 require only the second sheet moving direction. In fact, I
21 thought Mr. Weeks agreed with me on that; but he did say at
22 one point that there are only two sheet moving directions in

1 the claim. And that's true. But the claim does not
2 preclude using a third sheet moving direction as well.

3 But even if it required that the movement cause
4 the sheet -- sorry. Even if it required that the movement
5 in the second sheet moving direction be what causes the
6 sheet to become aligned, 196, the D-shaped roller, does
7 that. Because but for the lift of the check, the check would
8 never become aligned. It would just simply get stuck on the
9 transport path.

10 So as Your Honors, I'm sure, recall from law
11 school and from criminal law, causation -- and from torts --
12 causation -- but for is a causation element. So we submit
13 that that's satisfied with respect to the alignment process.

14 Moving now to slide 64 with respect to the
15 noncontact sensors, there's also an issue related to
16 causation. Now, first I did want to clarify that in slide
17 36 of Diebold's presentation, they cite some deposition
18 testimony from Dr. Kurfess about what the noncontact sensors
19 do.

20 And I submit to Your Honors that that was
21 describing the preferred embodiment, not the specific
22 language at issue here in claim 14. But essentially what

1 they're arguing with respect to these noncontact sensors is
2 a claim construction argument.

3 They're arguing that the sensors must provide
4 feedback; that there's some sort of back-and-forth
5 discussion between the sensors and the processors. And they
6 also point to a portion of the 010 patent discussing
7 position sensors. I submit to Your Honors that that was
8 nowhere in their papers and you shouldn't consider this new
9 claim construction. But I'd like to discuss specifically
10 each of the sensors.

11 JUDGE BRADEN: Well, I do -- I do want to make
12 sure that we're clear that the claim just based on the plain
13 language, grammar, the fact that this is a prepositional
14 phrase modifying a -- an adverb
15 prepositional phrase modifying the verb language, the cause
16 the sheet to be aligned by moving and sensing go together.
17 Is that your understanding or are you reading the and
18 sensing to be a separate clause?

19 MR. TISHMAN: We're reading it to be a separate
20 clause under the broadest reasonable interpretation.
21 There's some ambiguity with the claim. And under the
22 broadest reasonable interpretation, that would be a separate

1 clause. Nonetheless, we submit that it's satisfied under
2 even Diebold's narrower interpretation because of those
3 sensors 216 and 218.

4 Now, sensor 216, as I think Your Honor recognized,
5 Judge Braden, with your questioning, it causes the
6 alignment. But for the question do I align, yes or no, you
7 would have no alignment. So sensor 216 causes the
8 alignment. Next, sensor 218, that also causes the
9 alignment. It's an alignment sensor. It couldn't be
10 clearer in the patent.

11 Now, they also -- Diebold's counsel also points to
12 a citation to Dr. Kaufman's deposition testimony. But if
13 you look more closely at the questioning, you'll see that
14 the questioning related to whether or not the sensor
15 confirms alignment.

16 And this goes back to this new feedback argument
17 that they're presenting that the sensor has to provide
18 feedback back and forth and that it can't be a position
19 sensor.

20 JUDGE BEGLEY: Can we go back --

21 MR. TISHMAN: And that's nowhere in their papers,
22 Your Honors.

1 JUDGE BEGLEY: Can we go back to whether the
2 sensing is an independent limitation? Where -- if your --
3 under your view of the claim, where does the and
4 sensing fit in?

5 MR. TISHMAN: We submit that it's ambiguous. So
6 because of the ambiguity the broadest reasonable
7 interpretation governs. And the claim simply requires
8 sensing the sheet with a plurality of noncontact sensors.

9 We did, however, provide the alternative argument
10 that these noncontact sensors are, in fact, used as part of
11 the alignment process. So we -- it doesn't really matter
12 how it's interpreted because it's satisfied under either
13 interpretation.

14 JUDGE BEGLEY: Okay. I understand your position.
15 But I'm trying to -- that it meets both. But I'm trying to
16 understand your lead argument. And --

17 MR. TISHMAN: I would not qualify this as our lead
18 argument. I think that our lead argument is that sensors
19 216 and 218 sense it and are part of the alignment process.
20 We submitted this argument --

21 JUDGE BRADEN: So are you saying that 216 and 218
22 -- you would say are disposed along the first

1 direction?

2 MR. TISHMAN: Yes, they are. I believe we have
3 somewhere in our slides Swinton's Figure 2. And I'll pull
4 it up. We have a modified version of it from the motivation
5 to combine section. And it is slide 28.

6 And it's a little bit difficult to see in this --
7 in this slide, but 216 is right at the beginning of the
8 transport path. It's one of the first things in the
9 transport path. 218 is still along that first direction.
10 So 218 is slightly down in the transport path in the
11 alignment area of the check.

12 And, Judge Braden, I'm on slide 28 which shows a
13 modified version of Figure 2 from Swinton. So, yes, to
14 answer your question, yes, these are along the first sheet
15 moving direction.

16 Diebold spent some time on sensors 220 and 222 in
17 their presentation as well. As we explained to Your Honors,
18 220 and 222 sense the check and they are noncontact sensors.
19 But we do not submit that they are used in the alignment
20 process. For that, we rely on sensors 216 and 218.

21 Now, Mr. Weeks also touched on our alternative
22 argument regarding a plurality of sensors 218. And that is

1 the last slide in my presentation today, which is number 68.
2 Again, this is an alternative argument. We presented the
3 argument that 216 and 218 are a plurality of noncontact
4 sensors.

5 But in response to Diebold's claim construction, we
6 also explain how you could implement as a mere design choice
7 a plurality of sensors 218. And what this would be used for
8 is to sense different parts of the check and to align the
9 check in that way.

10 And unless there are any further questions, I'll
11 pass the mike to Kevin Wheeler to discuss the remaining
12 issues. Thank you, Your Honors.

13 MR. WHEELER: So very briefly, Your Honors, I want
14 to address just a couple points about motivation to combine
15 and Dr. Kaufman that were raised by Diebold's counsel.

16 He used the lovely tactic of showing a two-line
17 snippet from an eight-hour deposition where the expert gave
18 an answer of I don't know and tried to use that to convince
19 each of Your Honors that that means he doesn't understand
20 what's going on with motivation to combine, he didn't have
21 any rationale or analysis to support petitioner's
22 motivations to combine.

1 And I know, I'm confident all three of you have
2 already done so and I encourage you again to look at Dr.
3 Kaufman's declaration that was submitted with the petition;
4 for the 529 petition, paragraphs 40 through 44 and for the
5 530 petition, Dr. Kaufman's declaration at paragraphs 51
6 through 54.

7 With respect to Dr. Kaufman himself, he has a
8 Ph.D. He has close to 50 years of experience in handling
9 mechanical devices such as those at issue in these
10 proceedings. He's had experience as a -- building these
11 machines. And he's had experience as a professor including
12 at MIT and now at G.W.

13 JUDGE BRADEN: Well, I thought that he stated that
14 the only experience he had with ATMs was as a consumer
15 looking through the slot.

16 MR. WHEELER: So --

17 JUDGE BRADEN: Is there a different statement?

18 MR. WHEELER: What I'm referring to is mechanical
19 machines such as those that are at issue in the proceeding
20 not ATMs in particular.

21 Having said that, Judge Braden, he does
22 specifically have experience with machines handling sheet

1 items much like an ATM and, I will note, unlike Dr. Kurfess
2 who has no experience with ATMs and no experience with sheet
3 item handling machines at all.

4 And I bring this up, frankly, just to note that
5 the fact that Diebold is challenging this gentleman's
6 credibility I think is telling as to where we're at on that
7 issue. And if there are any further questions, I'm happy to
8 field them. Otherwise, petitioners will rest.

9 JUDGE BENOIT: No further questions. Thank you.

10 MR. WHEELER: Thank you, Your Honor.

11 MR. WEEKS: Your Honors, if I may briefly, with
12 regard to the motion to exclude specifically, Mr. Tishman
13 did touch on the testimony regarding the additional sensor
14 218 and how it could be implemented as multiple or whether
15 it could or not.

16 The only thing that I want to do is point out that
17 the petitioner still offered no explanation as to how that
18 -- how that testimony is not new or how it was responsive to
19 an issue raised in the petition.

20 The issue is whether or not that sensor is an
21 alignment sensor within the meaning of claim 14 not whether
22 or not it can be implemented as multiple sensors. Thank

1 you.

2 JUDGE BENOIT: All right. It appears we have no
3 more questions. Thank you very much for your presentations
4 today. We will issue a final written decision in due
5 course.

6 (Off the record at 3:07 p.m.)

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21 CERTIFICATE OF SHORTHAND REPORTER

22 I, CAROL A. LOWE, the court reporter before whom

1 the foregoing hearing was taken, do hereby certify that the
2 foregoing transcript is a true and correct record of the
3 proceedings; that said proceedings were taken by me
4 stenographically and thereafter reduced to typewriting under
5 my supervision; and that I am neither counsel for, related
6 to, nor employed by any of the parties to this case and have
7 no interest, financial or otherwise, in its outcome.

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16 Carol A. Lowe, RPR

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