Nos. 2019-1152, -1154

United States Court of Appeals for the Federal Circuit

COLLABO INNOVATIONS, INC., *Appellant*,

v.

SONY CORPORATION,

Appellee,

UNITED STATES, Intervenor.

Appeal from the United States Patent and Trademark Office Before the Patent Trial and Appeal Board in

Case No. IPR2017-00960

COLLABO INNOVATIONS, INC.,

Appellant,

v.

SONY CORPORATION, Appellee,

> UNITED STATES, Intervenor.

Appeal from the United States Patent and Trademark Office Before the Patent Trial and Appeal Board in Case No. IPR2017-00958

APPELLANT'S COMBINED PETITION FOR PANEL REHEARING OR REHEARING EN BANC

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Dated: April 10, 2020

UNITED STATES COURT OF APPEALS FOR THE FEDERAL CIRCUIT				
Collabo Innovations, Inc.	v. Sony Corpor	ration		
	Case Nos. <u>2019-1152, -1154</u>			
CERTIFICATE OF INTEREST				
Counsel for the: (petitioner) (appellant) Collabo Innovations, Inc.	(respondent) (appellee)	(amicus) 🗌 (name of party)		
	"None" if applicable; use extra s	heets if necessary):		
1. Full Name of Party Represented by me	2. Name of Real Party in inter- est (Please only include any real party in interest NOT identified in Question 3) rep- resented by me is:	3. Parent corporations and publicly held Companies that own 10 % or more of stock in the party		
Collabo Innovations, Inc.	Collabo Innovations, Inc.	Wi-LAN Technologies Inc Wi-LAN Inc.		
or amicus now represented	as and the partners or associates the by me in the trial court or agency of e not or will not enter an appea	or are expected to appear		
5. The title and number of other court or agency that	Bragalone Conroy PC w of Buether Joe & Carpenter, L any case known to counsel to be will directly affect or be directly eal. See Fed. Cir. R. 47. 4(a)(5) a	e pending in this or any affected by this court's		
	c. v. Sony Corp., No. 1:15-cv-010 nnovations, Inc., IPR2017-00958, /s/ Patrick J	, -00960 (PTAB)		
Please Note: All questions	must be answered <u>Patrick J.</u>			

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COUNSEL'S STATEMENT

Based on my professional judgment, I believe the panel decision is contrary to the following decision(s) of the Supreme Court of the United States or the precedent(s) of this court: *Nelson v. Adams USA, Inc.*, 529 U.S. 460, 469-70 (2000); *Lebron v. Nat'l R.R. Passenger Corp.*, 115 S. Ct. 961, 379 (1995); *TQ Delta, LLC v. CISCO Sys., Inc.*, 942 F.3d 1352 (Fed. Cir. 2019); *DSS Tech. Mgmt., Inc. v. Apple, Inc.*, 885 F.3d 1367 (Fed. Cir. 2018); *Arendi S.A.R.L. v. Apple Inc.*, 832 F.3d 1355 (Fed. Cir. 2016); *Nike, Inc. v. Adidas AG*, 812 F.3d 1326, 1342 (Fed. Cir. 2016), *overruled on other grounds by Aqua Prods., Inc. v. Matal*, 872 F.3d 1290 (Fed. Cir. 2017) (en banc); *Norsk Hydro Can., Inc. v. United States*, 472 F.3d 1347, 1359 (Fed. Cir. 2006); *Harris Corp. v. Ericsson Inc.*, 417 F.3d 1241 (Fed. Cir. 2005); *Gaus v. Conair Corp.*, 363 F.3d 1323 (Fed. Cir. 2004); *Interactive Gift Express, Inc. v. Compuserve Inc.*, 256 F.3d 1323 (Fed. Cir. 2001).

/s/ Patrick J. Conroy

ATTORNEY OF RECORD FOR APPELLANT

INTRODUCTION

Under this Court's precedent, substantial evidence requires more than conclusory assertions and unspecific expert testimony. Notwithstanding, the panel upheld the Board's decision that dependent claims 3 and 12 of U.S. Patent No. 7,023,034 were obvious with nothing more — not even a scintilla of evidence. These dependent claims require a "reflecting wall" having a vertical cross section in the shape of a trapezoid with an upper base that is longer than the lower base. But the prior art discloses only a cup-shaped light shield. While Sony drew a trapezoid over this cup shape in its petition, its drawing does not somehow transform the cup shape into a trapezoid, absent some evidence that the material in the cup should be combined with the cup itself to form a "reflecting wall." There is none. Not even Sony's expert provides an explanation for combining the cup-shaped light shield with the material inside (an insulating film).

In addition, the panel's decision conflicts with well-established precedent regarding issue preservation. This Court reviews *decisions* not arguments. And the Board *decided* that "reflecting walls" must be accorded an overbroad construction that conflicts with the plain and ordinary meaning of the term and the intrinsic evidence. Collabo was not required to use particular words to preserve a challenge to the Board's construction on appeal. It was merely required to put the Board on fair notice as to the substance of the issue. And it did so. Collabo argued that Sony's proposed construction of "reflecting walls" was overbroad and required a narrower construction consistent with the teachings of the '034 patent. Both Sony and the Board understood that Collabo challenged the construction of "reflecting walls." Indeed, the Board addressed and rejected Collabo's narrower interpretation of "reflecting walls" in its final written decision. Since the Board had fair notice of the issue, and actually addressed the construction of "reflecting walls" in its decision, the panel should have reviewed it on appeal.

Collabo respectfully requests panel rehearing or rehearing en banc because the panel's decision conflicts with this Court's precedent.

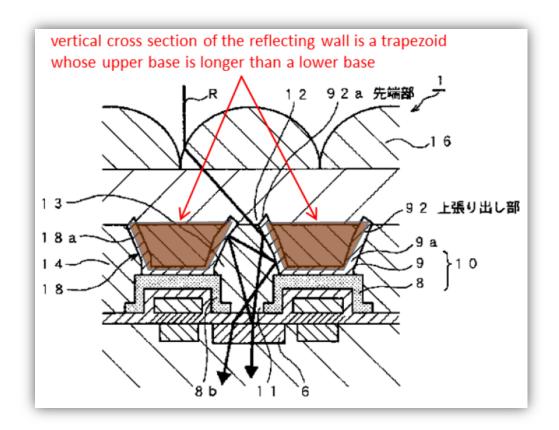
FACTUAL BACKGROUND

These appeals arise from two *inter partes* reviews ("IPRs") of the '034 patent, where the Board found that claims 1-18 were unpatentable as anticipated and/or obvious. Appx0068.¹ The '034 patent describes and claims a pair of "reflecting walls" that exist over each light-sensitive element (e.g., a photodiode) and partition each element from neighboring light-sensitive elements. Appx0174-75. Light that approaches the photodiode at an oblique angle, which might otherwise be inadvertently received by an adjacent photodiode, instead reflects off of the reflecting walls onto the aperture of the desired photodiode, preventing color mixing and decreasing var-

¹ Unless otherwise indicated, the citations reference the appendix in No. 19-1154.

iation across the image. Appx0175. Dependent claims 3 and 12 specify that "a vertical cross section of the reflecting wall is a trapezoid whose upper base is longer than a lower base." Appx0178-79.

In its petitions for IPR, Sony argued that "reflecting walls" should be broadly construed as "structures having approximately vertical surfaces that reflect light." Appx0089-92. In addition, Sony argued that prior art combinations rendered obvious dependent claims 3 and 12, through its annotation of Figure 3 from Japanese Patent Application Publication No. H11-087674 ("Abe"):

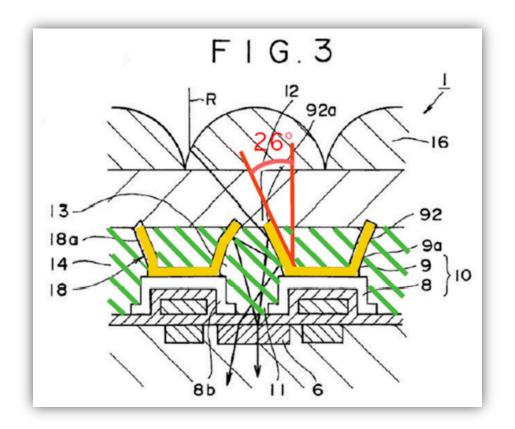


Appx0122-24. But Sony offered no evidence that the separate highlighted structures from Figure 3 should be combined to form a trapezoid whose upper base is longer

than a lower base.

The Board adopted Sony's construction of "reflecting walls" and instituted IPRs on all grounds raised in the petitions. Appx0779, Appx0813. In response, Collabo did not propose a claim construction for "reflecting walls" and said it would "appl[y] the Board's construction for its analysis." Appx1085. Notwithstanding, Collabo maintained that the light-shielding layers disclosed in the prior art were *not* "reflecting walls" because they prevent light from reaching the light-sensitive elements and do not reflect light onto the aperture. Appx1091-93, Appx1096-97, Appx1099. Importantly, Collabo explicitly argued that Sony sought "to reclassify the [light-shielding layers of the prior art] to take advantage of its *overly broad construction of 'reflecting walls.*" Appx1093 (emphasis added).

In addition, Collabo argued that Sony's trapezoidal drawing on Abe's Figure 3 contradicted Abe's written description, which discloses that a cup-shaped light shielding film 9 (yellow) is distinct from a second insulating layer 14 (green):



No. 19-1152, Appx1090-91.² Indeed, Sony's expert admitted that light would not reflect off of the "top" of the trapezoid drawn by Sony on Figure 3, but instead that it would pass through the second insulating layer and bounce off the bottom of the cup-shaped light shielding film. No. 19-1152, Appx1092.

There is no doubt that through its substantive arguments distinguishing the prior art, Collabo expressed its disagreement with Sony's construction of "reflecting walls." In reply, Sony stated that "Collabo makes a single substantive argument: that the [prior art] lacks the claimed 'reflecting walls.' *Collabo, however, fails to apply*

² Although Collabo did not present arguments regarding dependent claims 3 and 12 in IPR2017-00958, the Board considered Collabo's arguments from IPR2017-00960 in both proceedings, exercising its authority under 37 C.F.R. § 42.5(b). Appx0044.

the Board's construction of 'reflecting walls'" Appx1392 (emphasis added). Indeed, notwithstanding its argument that Collabo "acquiesced" to its construction of "reflecting walls" (Appx1392), Sony explicitly understood that "Collabo at times criticizes the Board's construction," and Sony presented various arguments for why its construction was correct. Appx1398-99.

At the oral hearing, in the Board's words, Collabo "continued to take the position asserted in its response." Appx1465. Collabo clarified that it never agreed with Sony's construction of "reflecting walls" and that the arguments in its response "made it clear that [Collabo] disagreed with the application of the claim construction." Appx1493-95. Collabo reiterated that Sony's construction of "reflecting walls" was "too broad" and that the "plain and ordinary meaning" of the term should apply. Appx1493. Further, if the term were to be construed, Collabo argued that it should be construed in a manner consistent with the purpose of the "reflecting walls" in the '034 patent (e.g., to reflect oblique light onto the aperture). Appx1495-97. And, when the Board asked if Collabo desired further briefing on the issue, Collabo responded in the affirmative, but the Board later denied this request. Appx1501.

Despite Collabo's argument that Sony's construction of "reflecting walls" is "overly broad," and that the light-shielding layers of the prior art are *not* "reflecting walls" because they do not disclose that they reflect light onto an aperture, the Board in its final written decision found that Collabo "expressly or impliedly waived" any argument against Sony's construction of "reflecting walls." Appx0013-14. Notwithstanding, the Board re-analyzed its construction, finding that "we are not persuaded that the plain and ordinary meaning [of 'reflecting walls'] would be any narrower than the present construction" and that "the intrinsic evidence supports [the Board's] preliminary construction of 'reflecting walls.'" Appx0014-16. With respect to dependent claims 3 and 12, a majority of the Board found that "the insulating layer 14 ... is part of the trapezoidal structure," noting that a figure in the '034 patent disclosed that "reflecting walls" could be a cup-shaped structure filled with another material. Appx0046-47. But Judge Anderson did not agree. Appx0069-72.

A divided panel of this Court affirmed the Board's decision. The panel unanimously concluded that Collabo waived its claim construction arguments on appeal because it "does not present 'the same position' it took below." ADD8-9. But the panel disagreed that there was substantial evidence supporting the Board's determination that the prior art rendered dependent claims 3 and 12 obvious. The majority concluded that the figure highlighted by Sony "on its face, discloses a trapezoidal shape," comprised of the cup-shaped light-shielding film and a portion of the insulating film 14. ADD13-16. Judge Clevenger dissented, however, noting that nothing in record supported the Board's finding that Abe's light shielding film 9 should be combined with the second insulating film 14. ADD19-23.

ARGUMENT

A. The Panel's Decision Regarding Dependent Claims 3 and 12 Conflicts with this Court's Precedent on the Standard for Substantial Evidence.

It is well established that substantial evidence requires more than conclusory assertions by a party or its expert. See TQ Delta, 942 F.3d at 1358 ("Conclusory expert testimony does not qualify as substantial evidence."); DSS Tech., 885 F.3d at 1376 (concluding that unspecific expert testimony is insufficient to support the Board's obviousness findings); Arendi, 832 F.3d at 1366 (Substantial evidence requires more than "conclusory statements and unspecific expert testimony."); see also Biestek v. Berryhill, 139 S. Ct. 1148, 1158 (2019) (Sotomayor, J., dissenting) ("[An] expert's conclusory testimony alone could not constitute substantial evidence to support the ALJ's factfinding."); id. at 1159-60 (Gorsuch, J., dissenting) ("[A] party or expert who supplies only conclusory assertions fails th[e] [substantial evidence] standard too."). The panel's decision, however, ignores this precedent. Because the Board's decision regarding dependent claims 3 and 12 is supported by nothing more than conclusory assertions and testimony, it should be reversed.

The panel concluded that substantial evidence supported the Board's finding that Abe disclosed a "reflecting wall" having a cross section in the shape of a trapezoid because "Figure 3 of Abe, on its face, discloses a trapezoidal shape" — that is, "a quadrilateral bounded by the lateral faces of light shielding film 9, the bottom surface of light shielding film 9, and the top surface of second insulating film 14 within the interior of light shielding film 9." ADD13. But the panel's *conclusion* that these features of Figure 3 form a "trapezoidal shape" is not supported by substantial evidence. As Judge Clevenger correctly observed, "[t]he question is *not* whether two structures (or portions thereof) form a trapezoid when combined, or even whether Fig. 3 of Abe, on its face, discloses a 'trapezoidal shape.'" ADD19 (Clevenger, J., dissenting) (emphasis added). "The appropriate inquiry is whether substantial evidence supports the Board's finding that Abe actually discloses combining multiple, separately-designated, structures such that their combination forms a trapezoidal 'reflecting wall'" *Id*.

Here, there is no evidence suggesting that "the lateral faces of light shielding film 9, the bottom surface of light shielding film 9, and the top surface of second insulating film 14 within the interior of light shielding film 9" should be combined to form a "trapezoidal shape." *See* ADD13. One could use annotations to combine various disparate structures depicted in Figure 3 to "conjure up" any number of shapes. ADD20 (Clevenger, J., dissenting); *see also* ADD15 (showing alternative annotations of Figure 3).³ But that does not mean that Figure 3 actually discloses a

³ The panel concluded that Collabo waived its argument that Figure 3 could be annotated in an alternative manner. ADD15-16. But Collabo has consistently maintained that Sony's annotations incorrectly combine disparate features of Figure 3 (i.e., light shielding film 9 and second insulating film 14), and even used alternative annotations to support its argument. *See, e.g.*, Appx1056; Appx1090-91. The alternative annotations presented on appeal are additional examples that further elaborate

"reflecting wall" having a cross section with any of those shapes. Such annotations are not evidence. They are nothing more than conclusory assertions. *See Arendi*, 832 F.3d at 1366 (Substantial evidence requires more than "conclusory statements and unspecific expert testimony."); *see also Biestek v. Berryhill*, 139 S. Ct. 1148, 1159-60 (2019) (Gorsuch, J., dissenting) ("[A] party or expert who supplies only conclusory assertions fails th[e] [substantial evidence] standard too.").

Contrary to the panel's opinion, Collabo did not merely "present[] an alternative explanation of the Abe reference." ADD16. Nothing in Abe supports the Board's finding the light shielding film 9 should be combined with any portion of the second insulating film 14 to form a trapezoidal "reflecting wall." *See* Appx1090-91. The portions of Abe cited by Sony's expert deal solely with light shielding film 9, which is a cup shape — *not* a trapezoid. Appx0378-0381. Neither Sony's expert, nor Abe's disclosure, address whether light shielding film 9 should be combined with the second insulating film 14 to form a trapezoidal "reflecting wall." *See id.*; Appx0458.

on Collabo's prior argument. *See Interactive Gift*, 256 F.3d at 1346 ("[T]his court does not review supporting arguments, but only the decisions reached by the trial court."); *Chamberlain Grp., Inc. v. One World Techs., Inc.*, 944 F.3d 919, 925 (Fed. Cir. 2019) ("Parties are not barred from elaborating on their arguments on issues previously raised."); *see also Apple Inc. v. Andrea Elecs. Corp.*, 949 F.3d 697, 706 (Fed. Cir. 2020) ("It is unreasonable to hold petitioners to such a high standard that, if they choose to rely on one example of an algorithm, they must either discuss all potential permutations of the variables or risk waiving the opportunity to further discuss other relevant examples in their reply."). The panel should not have found that Collabo waived arguments based on these additional annotations.

Sony's expert merely concluded, based on Sony's annotation of Figure 3, that Abe discloses a trapezoidal "reflecting wall." Appx0381. However, this conclusory testimony is not substantial evidence. *TQ Delta*, 942 F.3d at 1358 ("Conclusory expert testimony does not qualify as substantial evidence."); *DSS Tech.*, 885 F.3d at 1376 (concluding that unspecific expert testimony is insufficient to support the Board's obviousness findings); *see also Biestek*, 139 S. Ct. at 1158 (2019) (Sotomayor, J., dissenting) ("[An] expert's conclusory testimony alone could not constitute substantial evidence to support the ALJ's factfinding.").

Further, the conclusory assertions of Sony and its expert are not supported by any evidence from Abe, let alone substantial evidence. *See Arendi*, 832 F.3d at 1360-61 ("Substantial evidence is ... more than a mere scintilla of evidence.' It is 'such relevant evidence as a reasonable mind might accept as adequate to support a conclusion.'") (citations omitted). Abe discloses reflecting light using a cup-shaped light-shielding film 9. Appx0458 ¶ 47. But Abe describes the light shielding film 9 as being *separate from* the second insulating film 14. Appx0455-56 ¶¶ 28-29. The second insulating film 14 does not merely exist inside of the cup-shaped light shielding film 9; the extended portions of light shielding film 9 are formed over the second insulating film 14. Appx0456 ¶ 29; *see also* Appx1091 ("Abe clearly shows that the entire 'light trap' structure is part of insulator layer 14 as shown below"). Further, light shielding film 9 and second insulating film 14 serve opposite purposes. Where the light shielding film 9 is made of "any material that can *block* the light R," the second insulating film 14 is made of a material "capable of *transmitting* the incoming light R." Appx0455-56 (emphasis added). In view of Abe's disclosure, no reasonable person would understand Abe to disclose a trapezoidal "reflecting wall," as required by dependent claims 3 and 12.⁴

In sharp contrast to Abe's disclosure, the '034 patent explicitly states that the claimed "reflecting wall" may comprise a combination of different materials (e.g., tungsten and titanium). *See* Appx178, 8:26-33. To the extent a "trapezoidal shape" can be observed in Figure 3 of Abe, it is not a reflection of any teaching of Abe. It is a reflection of impermissible "hindsight bias" based on the express teachings of the '034 patent. *See, e.g., Rudolph Techs., Inc. v. Camtek, Ltd.*, 666 F. App'x 925, 930 (Fed. Cir. 2016) (unpublished) (reversing Board's decision that claim was obvious where the Board's findings of unpatentability relied on hindsight rather than substantial evidence).

B. The Panel's Decision Conflicts with this Court's Precedent on the Standard for Waiver of Claim Construction Issues.

The panel refused to review the Board's construction of "reflecting walls" because, in its view, the Board did not abuse its discretion in declining to consider those

⁴ Collabo's expert did not admit that Abe discloses a trapezoidal "reflecting wall." He merely stated that the "*areas highlighted by Petitioner* ... look like trapezoids." Appx0937 (emphasis added).

arguments below, and "Collabo did not properly present its claim construction argument before the Board." ADD7-8. But the rule of error preservation "does not demand the incantation of particular words"; it simply requires that the lower tribunal "be fairly put on notice as to the substance of the issue." *Nelson*, 529 U.S. at 469-70. When a lower tribunal actually construes a term, and a party challenges that construction on appeal, it is proper for this Court to review it on appeal. *See Norsk*, 472 F.3d 1347, 1359 (Fed. Cir. 2006) ("The Court of International Trade knew it had to construe the term 'imposed,' and it is obvious here, as well. We conclude it is proper to resolve this issue on appeal."); *see also Lebron*, 513 U.S. at 379 ("Our practice 'permit[s] review of an issue not pressed so long as it has been passed upon").

Here, it is evident that the Board was "fairly put on notice" that Collabo disagreed with the construction of "reflecting walls" proposed by Sony and advocated for a narrower construction based on the plain meaning of "reflecting walls" and their purpose in the '034 patent. In its patent owner response, Collabo explicitly argued that Sony sought "to reclassify the [light-shielding layers of the prior art] to take advantage of its *overly broad construction* of 'reflecting walls.'" Appx1093 (emphasis added). Further, Collabo argued that the light-shielding layers disclosed in the prior art were *not* "reflecting walls" because they prevent light from reaching the light-sensitive elements and do not reflect light onto the aperture. *See* Appx1091-93, Appx1096-97, Appx1099. Sony made clear in its reply that it understood that Collabo challenged its construction of "reflecting walls." Appx1398-99. And, if there was any doubt, Collabo made it clear at the oral hearing that it disagreed with the construction and that the term should be interpreted consistent with its plain and ordinary meaning and the purpose of "reflecting walls," as described in the '034 patent. Appx1493-97.

Indeed, like the Court of International Trade in *Norsk*, the Board "knew it had to construe the term." *Norsk*, 472 F.3d at 1359. Notwithstanding its finding of waiver, the Board re-analyzed its construction in its final written decision based on Collabo's argument, finding that "we are not persuaded that the plain and ordinary meaning [of 'reflecting walls'] would be any narrower than the present construction" and that "the intrinsic evidence supports [the Board's] preliminary construction of 'reflecting walls." Appx0014-16. Because the Board actually passed upon the construction of "reflecting walls," and considered Collabo's argument that the term should have carried a narrower meaning, it was on fair notice of the issue, so its construction is reviewable on appeal. *See Nelson*, 529 at 469-70; *Lebron*, 513 U.S. at 379; *Norsk*, 472 F.3d at 1359. The panel failed to apply this precedent.

The panel also ignored this Court's precedent that a party does not need to raise particular *arguments* in order to preserve an error for appeal. It just needs to raise the *issue* below. *See Interactive Gift*, 256 F.3d at 1346 ("This is in keeping with the common understanding that the appealable issue, and therefore the issue that is

subject to waiver, is the trial court's ruling on claim construction. Although a trial court may find persuasive a specific evidentiary argument, such as one related to the specification, it does not rule on it. This distinction is in accord with the familiar principle that this court does not review supporting arguments, but only the decisions reached by the trial court."). As discussed, that *issue* was clearly raised by Collabo before the Board, whether or not Collabo made the same "claim construction argument before the Board." ADD8. *In re Baxter Int'l, Inc.*, 678 F.3d 1357 (Fed. Cir. 2012), is not to the contrary. In that case, the applicant mentioned the claim limitation at issue only in the background section of its brief, did not raise that limitation in the arguments section, and did not address the limitation in its reply brief. *Id.* at 1362. And, "[u]nsurprisingly, the Board did not provide an analysis of the [limitation at issue]." *Id. Baxter* presents a stark difference from the facts of this case.

In addition, the panel failed to apply this Court's precedent that an appellant need not present exactly "the same position" it took below in order to preserve a claim construction error, so long as it presents "the same concept" on appeal. *See Harris*, 417 F.3d at 1251-52 (declining to find waiver where appellant changed the scope of its proposed claim construction on appeal, but articulated the same concept); *Gaus*, 363 F.3d at 1287-88 (same). Instead, the panel considered only whether Collabo had advanced "the same position" it took below. ADD8. While Collabo may not have articulated its argument in the same way below as it does on appeal, Collabo

nevertheless argued that the prior art does not disclose "reflecting walls" because they do not, consistent with the "plain and ordinary meaning" of the term in the context of the '034 patent, reflect oblique light onto the aperture. Appx1091-93, Appx1096-97, Appx1099; Appx1493-97. This is the same concept embodied by Collabo's argument on appeal. Op. Br. at 42-43.

The panel gave too much weight to Collabo's statement that it would "appl[y] the Board's construction for its analysis" in its patent owner response. ADD8. In *Intertainer, Inc. v. Hulu, LLC*, 660 F. App'x 943 (Fed. Cir. 2016) (unpublished), the patent owner "appear[ed] to cite to [the Board's construction] approvingly" in its response, yet a panel of this Court refused to find that the patent owner waived a challenge to that construction on appeal. *Id.* at 947. The panel should have done the same here, especially considering that Collabo did not actually apply the Board's construction in its analysis. As Sony conceded in its reply, Collabo "*fails to apply the Board's construction of 'reflecting walls'*" Appx1392 (emphasis added). The panel should not have concluded otherwise.

CONCLUSION

For the foregoing reasons, Collabo respectfully requests that the Court grant panel rehearing or rehearing en banc.

Dated: April 10, 2020

Respectfully submitted,

/s/ Patrick J. Conroy

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Counsel for Appellant Collabo Innovations, Inc.

CERTIFICATE OF COMPLIANCE WITH TYPE-VOLUME LIMITATION, TYPEFACE REQUIREMENTS AND TYPE STYLE REQUIREMENTS

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Dated: April 10, 2020

/s/ Daniel F. Olejko

Daniel F. Olejko BRAGALONE CONROY PC

Counsel for Appellant Collabo Innovations, Inc.

ADDENDUM

NOTE: This disposition is nonprecedential.

United States Court of Appeals for the Federal Circuit

COLLABO INNOVATIONS, INC., Appellant

v.

SONY CORPORATION, Appellee

> UNITED STATES, Intervenor

> > 2019 - 1152

Appeal from the United States Patent and Trademark Office, Patent Trial and Appeal Board in No. IPR2017-00960.

COLLABO INNOVATIONS, INC., Appellant

v.

SONY CORPORATION, Appellee

> UNITED STATES, Intervenor

> > ADD01

2019-1154

Appeal from the United States Patent and Trademark Office, Patent Trial and Appeal Board in No. IPR2017-00958.

Decided: February 25, 2020

DANIEL FLETCHER OLEJKO, Bragalone Conroy PC, Dallas, TX, argued for appellant. Also represented by PATRICK J. CONROY, MONTE BOND, TERRY SAAD.

ANDREW BALUCH, Smith Baluch LLP, Washington, DC, argued for appellee. Also represented by MATTHEW A. SMITH, Menlo Park, CA.

DENNIS FAN, Appellate Staff, Civil Division, United States Department of Justice, Washington, DC, argued for intervenor. Also represented by SCOTT R. MCINTOSH, JOSEPH H. HUNT; THOMAS W. KRAUSE, FARHEENA YASMEEN RASHEED, Office of the Solicitor, United States Patent and Trademark Office, Alexandria, VA.

Before PROST, *Chief Judge*, LOURIE and CLEVENGER, *Circuit Judges*.

Opinion for the court filed by Chief Judge PROST.

Opinion dissenting in part filed by *Circuit Judge* CLEVENGER.

PROST, Chief Judge.

Collabo Innovations, Inc. ("Collabo") appeals from the

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final written decisions of the Patent Trial and Appeal Board ("Board") in two *inter partes* reviews, each finding claims 1–18 of U.S. Pat. No. 7,023,034 ("the '034 patent") unpatentable. Because we agree with the Board that Collabo did not present a timely claim construction argument, and because substantial evidence supports the Board's findings regarding the prior art, we affirm.

Ι

Collabo owns the '034 patent, which is generally directed to a "solid-state imaging device in which a plurality of light-sensitive elements are arranged in a matrix form." '034 patent col. 1 ll. 7–10. Relevant to this appeal, the '034 patent describes and claims a pair of "reflecting walls" that exist over each light-sensitive element (such as a photodiode), partitioning each element from neighboring light-sensitive elements. Light that approaches the photodiode at an oblique angle, which might otherwise be inadvertently received by an adjacent photodiode, instead reflects off of the reflecting walls onto the aperture of the desired photodiode, preventing color mixing and minimizing variation across the image.

Sony Corporation ("Sony") filed two petitions for *inter partes* review of the '034 patent. The first petition alleged that each of claims 1–18 was either anticipated by Japanese Patent Application Publication No. 2001-237404 ("Tomoda"), or obvious over Tomoda in view of various additional references including, *inter alia*, Japanese Patent Application Publication No. H11-087674 ("Abe"). Sony *Corp. v. Collabo Innovations, Inc.*, No. IPR2017-00958, Paper 31, at 10 (PTAB Aug. 31, 2018) ("-958 Decision"). The second petition alleged that the same claims were rendered obvious by U.S. Patent Application Publication No. 2001/0026322 ("Takahashi") in view of various secondary references including Abe. Sony Corp. v. Collabo

Innovations, Inc., No. IPR2017-00960, Paper 31, at 10 (PTAB Aug. 31, 2018) ("-960 Decision").¹

The Board instituted trial on both petitions, held a consolidated hearing, and issued separate final written decisions concluding that claims 1–18 are unpatentable under each set of grounds. The decisions were unanimous with respect to claims 1, 2, 4–11, and 13–18. With respect to claims 3 and 12, a majority of the Board concluded that Abe discloses the claim limitation "wherein a vertical cross section of the reflecting wall is a trapezoid whose upper base is longer than a lower base." Administrative Patent Judge Anderson dissented in each case and would have found claims 3 and 12 not unpatentable. *-958 Decision* at 69; *-960 Decision* at 72.

Collabo timely appealed the Board's decisions. We have jurisdiction under 28 U.S.C. \S 1295(a)(4)(A).

Π

Collabo presents two arguments on appeal. First, it argues that the Board erred by adopting an unreasonably broad construction of "reflecting walls," and therefore its decision with respect to all claims must be reversed. Appellant's Br. 32. Second, Collabo argues that the Board's decision with respect to claims 3 and 12 must be reversed for the additional reason that the Board's finding that Abe

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¹ Sony's two petitions are largely identical for the purposes of this appeal. For clarity, this opinion refers to the Board decisions, procedural history, briefing, and joint appendix of the -958 IPR (Appeal No. 19-1154) except where otherwise noted.

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discloses a trapezoidal reflecting wall is not supported by substantial evidence. *Id.* at 49. We address each in turn.²

А

During an *inter partes* review, claims are given their broadest reasonable interpretation consistent with the specification. *Cuozzo Speed Techs.*, *LLC v. Lee*, 136 S. Ct. 2131, 2146 (2016).³ Applying that standard, the Board construed the term "reflecting walls" as "structures having approximately vertical surfaces that reflect light." -958 *Decision* at 16. Collabo now argues that this was unreasonably broad, and the Board should have given the term its "plain and ordinary meaning," which it contends is "a wall that reflects oblique light from a micro lens onto a corresponding light-sensitive element." Appellant's Br. 43. Sony responds that Collabo waived its claim construction argument by failing to raise it before the Board in a timely

² In its opening brief, Collabo also argued that the Board's application of *inter partes* review to patents issued before the passage of the Leahy-Smith America Invents Act was an unconstitutional taking or a violation of due process. Appellant's Br. 54–50. Prior to Collabo's reply brief, however, this court issued *Celgene Corporation v. Peter*, concluding that such actions were not unconstitutional. 931 F.3d 1342, 1362–63 (Fed. Cir. 2019). Collabo conceded on reply that its arguments were "foreclosed by the Court's recent precedent in *Celgene*" and related cases. Appellant's Reply Br. 28. We agree, and therefore do not further address Collabo's constitutional argument.

³ Although this standard has changed, the broadest reasonable interpretation continues to apply to petitions, like those at issue here, filed before November 13, 2018. See Changes to the Claim Construction Standard for Interpreting Claims in Trial Proceedings Before the Patent Trial and Appeal Board, 83 Fed. Reg. 51,340 (Oct. 11, 2018) (codified at 37 C.F.R. pt. 42).

manner, and that in any case the Board's construction was correct. It notes that Collabo did not raise any claim construction challenge until the hearing before the Board, and the Board found that untimely challenge "expressly or impliedly waived." Appellee's Br. 21 (quoting -958 Decision at 16).

Decisions related to compliance with the Board's procedures are reviewed for an abuse of discretion." *Intelligent Bio-Systems, Inc. v. Illumina Cambridge, Ltd.*, 821 F.3d 1359, 1367 (Fed. Cir. 2016). The Board's authority to consider timely arguments, and to find untimely arguments waived, is a matter of compliance with 37 C.F.R. § 42.5 and the Office Patent Trial Practice Guide, 77 Fed. Reg. 48,756, 48,768 (Aug. 14, 2012), which states that "[n]o new evidence or arguments may be presented at the oral argument." See Dell Inc. v. Acceleron, LLC, 884 F.3d 1364, 1369 (Fed. Cir. 2018). Therefore, the Board's decision to find an argument waived, as it did in this case, is reviewed for an abuse of discretion. See id. (applying abuse of discretion standard to Board's refusal to consider "untimely argument").

In its IPR petition, Sony proposed that the term "reflecting walls" be construed as "structures having approximately vertical surfaces that reflect light." J.A. 92. Collabo did not contest this construction in its patent owner preliminary response. J.A. 594 ("[F]or the purposes of this Preliminary Response, Patent Owner does not offer a construction for any of the claim terms in the '034 patent."). On that record, "and based on the [s]pecification," the Board preliminarily adopted Sony's construction in its institution decision. J.A. 779.

Following the Board's institution decision, Collabo again declined to contest Sony's construction or the Board's adoption of that construction. In its patent owner response, Collabo stated that it had "applie[d] the Board's construction for its analysis." J.A. 874. Similarly,

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Collabo's expert testified that he "applied the constructions recommended by the board," but "doesn't agree or disagree" with them. J.A. 1274. Collabo expressly reserved the right "to seek alternative constructions in *other* proceedings and matters," but did not indicate that it was challenging the Board's construction in this proceeding. J.A. 874 (emphasis added).

At the hearing before the Board, however, Collabo nevertheless attempted to challenge the Board's claim construction. See J.A. 1500 ("disagree[ing]" with "the current construction that has been preliminarily adopted by the Board"). When pressed, Collabo conceded that it had not previously alerted the Board to its claim construction challenge, and that its claim construction challenge "is not in the record." J.A. 1499. Following the hearing, Collabo filed a motion requesting additional briefing on the construction of reflecting walls. See J.A. 1465. The Board denied this motion, noting that Collabo "had ample opportunity to argue for an alternative construction" in its patent owner response but "did not do so." J.A. 1466.

In its final written decision, the Board reiterated that Collabo had not raised a timely claim construction argument and concluded that Collabo "expressly or impliedly waived any argument contrary to the preliminary construction from the Institution Decision." -958 Decision at 13. After further considering the claim language, the specification, and the prosecution history, the Board formally adopted Sony's proposed construction of reflecting walls and performed its obviousness analysis under that construction. Id. at 15–16.

On this record, we agree with Sony that the Board did not abuse its discretion when it declined to consider Collabo's claim construction argument. Collabo admitted at the hearing that it had not previously raised this argument. J.A. 1499. And neither Collabo's patent owner preliminary response nor its patent owner response contain a

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facial challenge to Sony's proposed claim construction or the Board's adoption of that construction. See J.A. 594, 874. Accordingly, Collabo did not properly present its claim construction argument before the Board and is not entitled to present that argument before us. See In re Baxter Int'l, 678 F.3d 1357, 1362 (Fed. Cir. 2012) ("Absent exceptional circumstances, we generally do not consider arguments that the applicant failed to present to the Board") (internal citations omitted).

Collabo's argument to the contrary is not persuasive. It primarily relies on our non-precedential opinion in *Intertainer, Inc. v. Hulu, LLC*, 660 F. App'x 943 (Fed. Cir. Sept. 26, 2016) for the proposition that a party's claim construction arguments on appeal are not waived so long as they are "consistent with those it made to the Board." Appellant's Br. 43–44. We disagree that *Intertainer* presents the same situation as this case. In *Intertainer*, this court concluded that a party's claim construction challenge was not waived because, although framed differently, it took "the same position" before the Board that it took on appeal. 660 F. App'x at 947. As we noted, the "original scope of Intertainer's claim construction position" had not changed. *Id.* at 948.

The same cannot be said for Collabo's position here. In its patent owner response and patent owner preliminary Response, Collabo acquiesced to Sony and the Board's construction, and expressly applied that construction in its analysis. Now, on appeal, it argues that this construction was incorrect, and the term should be accorded its "plain and ordinary meaning." Appellant's Br. 28. And, for the first time, Collabo specifies that this plain and ordinary meaning is "a wall that reflects oblique light from a micro lens onto a corresponding light-sensitive element." Appellant's Br. 42–43. Because Collabo's new claim construction argument on appeal does not present "the same position" it took below, *Intertainer* is inapplicable.

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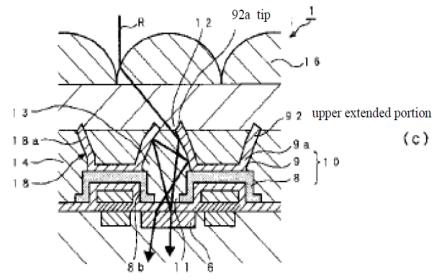
Because Collabo did not raise its claim construction argument below, that argument is waived, and we need not address its merits on appeal.

В

Independent of its claim construction argument, Collabo challenges the Board's conclusion that the prior art renders claims 3 and 12 obvious. Claims 3 and 12 each recite the dependent limitation "wherein a vertical cross section of the reflecting wall is a trapezoid whose upper base is longer than a lower base." Collabo does not dispute that the Abe reference discloses a vertical cross section of a reflecting wall, but argues that substantial evidence does not support the Board's conclusion that the cross section disclosed in Abe is a trapezoid.

"We review the PTAB's factual findings for substantial evidence and its legal conclusions de novo." Redline Detection, LLC v. Star Envirotech, Inc., 811 F.3d 435, 449 (Fed. Cir. 2015) (citation omitted). While obviousness is ultimately a question of law, it is based on underlying findings of fact. In re Gartside, 203 F.3d 1305, 1316 (Fed. Cir. 2000). As relevant here, the Board's findings regarding "the scope and content of the prior art" are reviewed for substantial evidence. Id. at 1319 (internal quotation omitted). "Substantial evidence is something less than the weight of the evidence but more than a mere scintilla of evidence. It is such relevant evidence as a reasonable mind might accept as adequate to support a conclusion." In re NuVasive, Inc., 842 F.3d 1376, 1379-80 (Fed. Cir. 2016) (internal citations and quotations omitted). "If the evidence in the record will support several reasonable but contradictory conclusions, we will not find the Board's decision unsupported by substantial evidence simply because the Board chose one conclusion over another plausible alternative." Redline, 811 F.3d at 449 (quoting *In re Jolley*, 308 F.3d 1317, 1320 (Fed. Cir. 2002)).

In its petition, Sony relied primarily on Figure 3 of Abe and the accompanying description to teach the "is a trapezoid" limitation. Figure 3 of the English translation of Abe is reproduced below:



J.A. 461. Sony's petition further explained that element 9 is a "second light shielding film," having "lateral faces 9a" that are approximately vertical surfaces, and upper extended portions 92. J.A. 122–123 (citing Abe $\P\P$ 38, 47). Sony provided the following annotation of Figure 3 to support its contention that this figure discloses a trapezoidal reflecting wall:

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vertical cross section of the reflecting wall is a trapezoid whose upper base is longer than a lower base

Abe recites that "upper extended portions 92 may be extended so as to incline upwardly from the upper ends of the lateral faces 9a of the second light shielding film 9." ([Abe], $\P0044$)([Expert declaration], $\P146$). This describes that the vertical cross section of the reflecting wall is a trapezoid whose upper base is longer than a lower base, as seen in Fig. 3. ([Expert declaration], $\P146$).

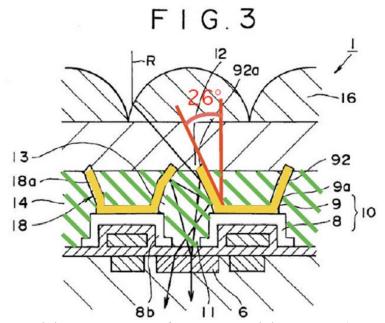
J.A. 123. Sony cited to the declaration of its expert, who opined that these passages of Abe, "as shown in Abe's Figure 3... disclose[] that the vertical cross section of the reflecting wall is a trapezoid whose upper base is longer than a lower base." J.A. 263–64. Based on this explanation, the Board correctly explained in its final written decision that Sony "has identified, through its annotations, what it contends are the boundaries of Abe's trapezoidal reflecting wall, namely, the lateral faces of light shielding film 9, the bottom surface of light shielding film 9, and the top surface of second insulating film 14 within the interior of light

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J.A. 122. As Sony explained:

shielding film 9." -958 Decision at 41 (citing Abe $\P\P$ 38–39).

The Board acknowledged Collabo's counter-argument that Abe does not disclose a trapezoid. "Petitioner relies on Abe's U-shaped design or the cup shape or bowl-shaped design of these walls . . . Patent Owner argues that there is no top to Abe's structure and, because it is a cup, it is not a trapezoid." *-958 Decision* at 43–44. Collabo provided the following annotation to represent its preferred reading of Abe:



-960 Decision at 46; see also -958 Decision at 44 (incorporating Collabo's arguments from the '960 IPR).⁴ As the Board noted, Collabo and its expert contended that the striped green lines "represent transparent insulation 14 of Abe." -960 Decision at 46.

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⁴ The 26 degree angle measurement depicted in this annotation correlates to an unrelated argument made below, which Collabo does not pursue on appeal.

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After weighing both parties' positions, the Board found that Abe does disclose a trapezoid. Citing Sony's petition, as well as the same portions of Abe cited in Sony's petition, the Board determined that "the entire cup shaped structure, including the material within, is the recited 'reflecting wall." -958 Decision at 45. As a result, "Abe's description [of Figure 3] . . . describes that the vertical cross section of the reflecting wall is a trapezoid." Id. (citing Abe ¶ 44, Sony's petition, and the declaration of Sony's expert).

Collabo argues that we must reverse the Board because this finding was not supported by substantial evidence. We disagree. The Board was presented with two alternative interpretations of Abe, both supported by citations to Figure 3, the text of the reference, and expert testimony. The question before us is not which of these interpretations we would find more compelling in a vacuum. "[I]t is not for us to second-guess the Board's assessment of the evidence." *Velander v. Garner*, 348 F.3d 1359, 1378–79 (Fed. Cir. 2003). Rather, "[o]ur task is to determine whether substantial evidence supports the conclusion chosen by the Board." *Id.* Here, we conclude that it does.

Figure 3 of Abe, on its face, discloses a trapezoidal shape. As the Board described, it shows a quadrilateral bounded by the lateral faces of light shielding film 9, the bottom surface of light shielding film 9, and the top surface of second insulating film 14 within the interior of light shielding film 9. -958 Decision at 41 (citing Abe ¶¶ 38–39). The top surface, made of a portion of second insulating film 14, is longer than the bottom surface of light shielding film 9. Abe undisputedly discloses that the lateral faces of the light shielding film 9 reflect light. See Appeal No. 19-1152 J.A. 937 (Collabo's expert referring to light shielding film 9 as a "reflector"). Therefore, we hold that substantial evidence supports the Board's conclusion that Abe discloses "a vertical cross section of the reflecting wall is a trapezoid whose upper base is longer than a lower base."

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COLLABO INNOVATIONS, INC. v. SONY CORPORATION

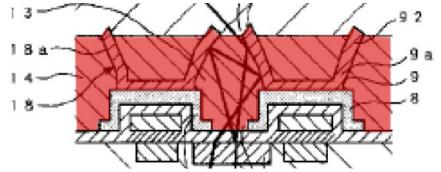
None of Collabo's arguments on appeal demonstrate that the Board's conclusion was not supported by substantial evidence. First, Collabo argues that it was "improper for the Board to conclude 'that the entire cup shaped structure, including the material within, is the recited reflecting wall," because Sony allegedly "never argued [this] in the petition." Appellant's Br. 51 (quoting -958 Decision at 45). We disagree. In its petition, Sony presented the annotation shown above, overlaying a solid brown trapezoid on top of light shielding film 9 and insulating film 14 as depicted in Figure 3 of Abe. This annotation could reasonably be read—indeed, could only credibly be read—as an argument by Sony that the trapezoidal reflecting wall includes both the light shielding film and the insulating film inside of it, as both were shown within the brown trapezoidal annotation. See also Appeal No. 19-1152 J.A. 992 (Sony's expert referring to insulating film 14 as the "top of the structure comprising the reflecting walls" during his deposition). Thus, we are not persuaded by Collabo's argument that the Board "changed the 'thrust' of Sony's unpatentability theory," Appellant's Br. 51, when it concluded that the entire cup shaped structure, including the material within, is the reflecting wall.⁵

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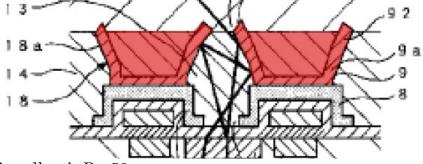
⁵ On appeal, Collabo does not argue that Abe fails to disclose a trapezoid merely because the trapezoid is made of two different materials. *See* Oral Arg. at 9:53–10:01, available at http://www.cafc.uscourts.gov/oral-argumentrecordings ("We're not arguing that you can't have a trapezoidal reflecting wall that's made of multiple materials. That's not our argument."). Such an argument would be meritless. The Board's construction of "reflecting walls" does not preclude a reflecting wall made of multiple materials. Nor could it, as the '034 patent itself depicts a reflecting wall made of a cup-shaped metal layer filled with a second material. *See* '034 patent at Fig. 5H.

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Collabo further argues that, even assuming insulating film 14 was part of the reflecting wall in Abe, the resulting shape is not a trapezoid. Collabo presents numerous proposed annotations, shown below, to demonstrate what it contends are the shapes of the various structures in Abe. For example, it presents the following annotation of Abe's Figure 3 purporting to show that "insulating film 14' is not a trapezoid, it is a different shape entirely."



Appellant's Br. 52. Collabo presents another annotation of the same figure, shown below, to alternatively argue that Abe's walls are not trapezoids because its "structures have at least eight edges or sides and vertices or corners."



Appellant's Br. 53.

As an initial matter, this argument was not made before the Board and is therefore waived. *See Baxter*, 678 F.3d at 1362. Collabo argued to the Board that Abe's structure was "simply not a trapezoid." J.A. 1508–09. But it made that statement only in the context of its argument that Abe discloses a "U-shaped design or [a] cup shape." *Id.* at 1509. The two new shapes argued by Collabo in its

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opening brief, which are neither trapezoid nor cup, do not appear anywhere in the record before the Board, nor does any corresponding argument.

Even if the argument were not waived, we agree with Sony that, at least as to the alleged "eight edges" annotation, no evidence supports requiring the level of geometric perfection that Collabo now advocates. Appellee's Br. 61. That is especially true where, as here, both parties' experts have conceded that the figures of Abe and the '034 patent are rough approximations which do not necessarily reflect the detailed physical characteristics of the device. See J.A. 934. Further, Collabo's arguments improperly require us to perform fact finding. We are not in a position to evaluate the correctness of Collabo's new annotations. "It is not our role to ask whether substantial evidence supports fact-findings not made by the Board, but instead whether such evidence supports the findings that were in fact made." Regents of Univ. of Cal. v. Broad Inst., Inc., 903 F.3d 1286, 1294 (Fed. Cir. 2018).

For the reasons discussed above, substantial evidence, including Abe's figures and text, supports the Board's conclusion that Abe discloses "a vertical cross section of the reflecting wall is a trapezoid whose upper base is longer than a lower base." Although Collabo presents an alternative explanation of the Abe reference, that is insufficient for reversal under the substantial evidence standard. *See AK Steel Corp. v. U.S.*, 192 F.3d 1367, 1371 (Fed. Cir. 1999) ("[O]ur analysis is not whether we agree with [the agency]'s conclusions, nor whether we would have come to the same conclusions reviewing the evidence in the first instance, but only whether [the agency]'s determinations were reasonable.").

III

We have considered Collabo's remaining arguments and find them unpersuasive. For the foregoing reasons, we affirm the Board's construction of "reflecting wall" and its

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conclusion that claims 3 and 12 are unpatentable as obvious.

AFFIRMED

COSTS

The parties shall bear their own costs.

NOTE: This disposition is nonprecedential.

United States Court of Appeals for the Federal Circuit

COLLABO INNOVATIONS, INC., Appellant

v.

SONY CORPORATION, Appellee

> UNITED STATES, Intervenor

> > 2019 - 1152

Appeal from the United States Patent and Trademark Office, Patent Trial and Appeal Board in No. IPR2017-00960.

COLLABO INNOVATIONS, INC., Appellant

v.

SONY CORPORATION, Appellee

> UNITED STATES, Intervenor

> > ADD18

2019 - 1154

Appeal from the United States Patent and Trademark Office, Patent Trial and Appeal Board in No. IPR2017-00958.

CLEVENGER, Circuit Judge, dissenting-in-part.

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I join Parts I and II.A of the majority's opinion, but I respectfully dissent from Part II.B. The majority concludes, as did the Board, that JPA Publication No. H11-87674 ("Abe") discloses a "reflecting wall" having a vertical cross section that "is a trapezoid whose upper base is longer than a lower base." According to the majority, the Board's finding that Abe satisfies this additional limitation of dependent claims 3 and 12 of U.S. Patent No. 7,023,034 (the "034 patent") was supported by substantial evidence because, when drawn together, light shielding film 9 and a portion of the insulating film 14 form a trapezoid whose upper base is longer than a lower base. But by blessing the Board's analysis, the majority commits the same error. The question is not whether two structures (or portions thereof) form a trapezoid when combined, or even whether Fig. 3 of Abe, on its face, discloses a "trapezoidal shape." The appropriate inquiry is whether substantial evidence supports the Board's finding that Abe actually discloses combining multiple, separately-designated, structures such that their combination forms a trapezoidal "reflecting wall"—a structure having approximately vertical surfaces that reflects light? Because Abe does not disclose a trapezoidal "reflecting wall," I respectfully dissent-in-part.

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Abe's cup-shaped light shielding film 9, on its own, is a structure having approximately vertical surfaces that reflect light—in other words, it is, on its own, a "reflecting wall." It is undisputed that this light shielding film, however, is not a trapezoid. Thus, in an attempt to conjure up a trapezoidal "reflecting wall" where one does not otherwise exist, Sony simply drew a trapezoid onto Fig. 3 of Abe encompassing both light shielding film 9 and the portion of the insulating film 14 sitting directly above it.

In its Final Written Decision, the Board relied on Sony's annotated version of Fig. 3 of Abe in finding first that "Figure 3 of Abe shows a 'pair of reflecting walls' (i.e., a 'plurality of reflecting walls,' as claimed)," and second that "Abe's description that 'upper extended portions 92 may be extended so as to incline upwardly from the upper ends of the lateral faces 9a of the second light shielding film 9'... 'describe that the **vertical cross section of the reflecting wall is a trapezoid whose upper base is longer than a lower base**."" J.A. 47–48 (internal citations omitted) (bold in original). Thus, the Board held, and the majority affirms, that Abe discloses the trapezoidal "reflecting wall" of claims 3 and 12 of the '034 patent.

Π

In focusing solely on whether Abe discloses a "trapezoidal shape," Maj. Op. at 13, the majority commits two errors. First, by focusing on whether Fig. 3 of Abe, on its face, generally "discloses a trapezoidal shape," *id.*, the majority reads out the requirement that it is specifically the "vertical cross section of the *reflecting wall*" that must be in the shape of a trapezoid. J.A. 179 (italics added). Second, the majority fails to consider whether the Board's finding that Abe discloses the "reflecting wall" of claims 3 and 12, which was not based on the mere existence of a "trapezoidal shape," was actually supported by substantial evidence. It is not. For example, according to Sony, the "Board's finding

was based on substantial evidence, in the form of Abe's disclosure and Mr. Guidash's declaration." Appellee's Br. at 61 (citing Abe at ¶¶ 44, 46, corresponding to J.A. 458, Abe at Fig. 3, corresponding to J.A. 462, and Guidash Decl. at ¶341, corresponding to J.A. 381).¹ The cited portions of both Abe and the Guidash Decl., however, deal solely with the upwardly inclining portions of light shielding film 9 which, as mentioned above, is a non-trapezoidal "reflecting wall." Abe and the Guidash Decl. are entirely silent on a light shielding film 9 / insulating film 14 combination resulting in a single trapezoidal "reflecting wall." When pressed at the oral argument for any actual substantial evidence to support the Board's finding that Abe discloses a trapezoidal "reflecting wall" comprising both light shielding film 9 and insulating film 14, counsel for Sony could only cite to paragraphs 38, 44, 48, and 49 of Abe. See, e.g., Oral Arg. at 36:40-37:06; 26:50-37:06, http://oralarguments.cafc.uscourts.gov/default.aspx?fl=2019-1152.mp3. Again, these paragraphs only disclose the upwardly inclining portions of light shielding film 9. The mere fact that the lateral walls of the three-walled light shielding film 9 upwardly incline over the sensor parts 6, however, is not substantial evidence of a trapezoidal "reflecting wall" comprising both light shielding film 9 and insulating film 14.

While the Board and majority are correct that the claimed "reflecting walls" do not require a uniform composition, and in fact are not uniform in Fig. 5 of the '034 patent, there is no suggestion in Abe that the alleged combination of light shielding film 9 and portions of, but not all of, insulating film 14 is, or can be used as, a

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¹ Sony also argues that Collabo's expert admitted that the identified structure is a trapezoid. However, Dr. Afromowitz appears to have admitted only that the structure arbitrarily drawn by Sony in its petition, not any "reflecting wall" shown in Fig. 3 of Abe, looks like a trapezoid.

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"reflecting wall."² Nor does Abe, or Mr. Guidash,³ explain why a person of ordinary skill in the art ("POSITA") at the time of the invention would find it necessary to arbitrarily combine the light shielding film 9 with portions of the insulating film 14 so as to form a trapezoidal "reflecting wall." Indeed, it appears unlikely that a POSITA would find such a combination necessary, as light shielding film 9, on its own, allows Abe to derive the same benefits as those achieved by the '034 patent's trapezoidal reflecting walls. Compare J.A. 457–58, Abe at ¶¶ 38, 44 (disclosing that "the upper extended portions 92 may be extended so as to incline upwardly from the upper ends of the lateral faces 9a of the second light shielding film 9" to more readily reflect "oblique light" towards the sensors) with J.A. 176, 3:57–60 ("a cross section of the reflecting wall is a trapezoid whose upper base is longer than the lower base, whereby it is possible to cause the oblique light to be reflected toward the aperture more efficiently").

² With respect to Fig. 5, the '034 patent explicitly states that the combination of Tugsten W film 121 and Titanium Ti film 122 (which are both reflective and not insulating) make up reflecting wall 62. *See* J.A. 178, 8:26–33. In Abe, to the contrary, there is no suggestion or disclosure of any structure formed through the combination of light shielding film 9 and insulating film 14.

³ The Guidash declaration merely states that because the upper extended portions 92 may be extended so as to incline upwardly, as discussed in Abe ¶ 44, Fig. 3 discloses that the vertical cross section of the reflecting wall is a trapezoid whose upper base is longer than a lower base. This is conclusory and belied by the fact that Abe discloses efficiently reflecting oblique light onto the sensor parts 6 using a three-sided U-shaped light shielding film 9 by itself, not a trapezoidal "reflecting wall."

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COLLABO INNOVATIONS, INC. v. SONY CORPORATION

Even though Sony was unable to point to *any* substantial evidence supporting the Board's finding, the majority finds substantial evidence in the mere existence of a "trapezoidal shape" in Fig. 3 of Abe. As previously discussed, however, the relevant inquiry is not whether Abe discloses a "trapezoidal shape," but whether substantial evidence supports a finding that Abe discloses a trapezoidal "reflecting wall." It is clear, on the record before us, that it does not.

III

For the foregoing reasons, this court should reverse the Board's finding of obviousness with respect to claims 3 and 12 of the '034 patent.

CERTIFICATE OF SERVICE

On April 10, 2020, I caused the foregoing document to be electronically filed with the Clerk of Court using the CM/ECF System, which will serve via e-mail notice of such filing to all counsel registered as CM/ECF users, including any of the following:

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