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8	UNITED STATES DISTRICT COURT				
9	NORTHERN DISTRICT OF CALIFORNIA				
10	SAN JOSE DIVISION				
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12	PACIFIC COAST BUILDING PRODUCTS, INC.,	Case No. 18-CV-00346-LHK			
13 14	Plaintiff,	ORDER CONSTRUING DISPUTED TERMS OF U.S. PATENT NOS. 8 181 738 AND 9 388 568			
15	V.	Re: Dkt. No. 80			
16	CERTAINTEED GYPSUM, INC., et al.,				
17	Defendants.				
18	Plaintiff Pacific Coast Building Products, Inc. brings this action for patent infringement				
19	against Defendants Certainteed Gypsum, Inc. and Saint Gobain Performance Plastics Corp. The				
20	parties now seek construction of 6 disputed terms used in the claims of the following patents-in-				
21	suit: U.S. Patent Nos. 8,181,738 ("the '738 Patent") and 9,388,568 ("the '568 Patent").				
22	I. BACKGROUND				
23	A. Background and Description of the Inventions				
24	The '738 Patent is titled "Acoustical Sound Proofing Material with Improved Damping at				
25	Select Frequencies and Methods for Manufacturing Same." It was filed on May 25, 2010 and				
26	issued on May 22, 2012.				
27	The '568 Patent is titled "Acoustical Sound Proofing Material with Improved Fracture				
28	1 Case No. 18-CV-00346-LHK ORDER CONSTRUING DISPUTED TERMS OF U.S. PATENT NOS. 8,181,738 AND 9,388,568				

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Characteristics and Methods for Manufacturing Same." It was filed on April 6, 2007 and issued on 2 July 12, 2016.

The Court will address each patent in turn.

1. The '738 Patent

The '738 Patent generally relates to "a panel tuned for performance at selected problem frequencies to address the noise encountered in the building acoustics industry." '738 Patent at 2:20-22. The Background section of the patent explains that soundproofed areas are desirable in a variety of contexts, such as in apartments, schools, and hospitals. See generally id. at 1:27-52. The Patent purports to improve upon soundproofing construction materials by disclosing, in one embodiment, "a laminated substitute for drywall." Id. at 2:34-35. Figure 1 exemplifies the



disclosed invention. Item 100 is a cross-section of the entire laminated structure, which is composed of a top and bottom layer of gypsum boards, items 101 and 102, respectively. *Id.* at 5:49-52; 6:25. Item 103 is a layer of glue that is especially designed to dissipate energy (i.e., absorb noise), and is sandwiched in between the top and bottom boards. Id. at 6:35-39. The bottom surface of the top board, item 101-1, and the top surface of the bottom board, item 102-1, can in some embodiments be in direct contact with the layer of glue. Id. at 6:6-8, 24-27. "When energy in sound interacts with the glue which is constrained by surrounding layers, the sound energy will be significantly dissipated" *Id.* at 6:43-45.

2. The '568 Patent

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Much like the '738 Patent, the '568 Patent is related to soundproofing. However, the problem that the '568 Patent attempts to address differs from that of the '738 Patent. The '568 Patent recognizes that "laminated damped drywall panel," which provides noise damping, can replace traditional drywall in construction. '568 Patent at 1:59-65. However, the laminated damped drywall panel cannot be easily cut to size at construction sites; oftentimes, the panels "must be scored multiple times and broken with great force over the edge of a table or workbench." *Id.* at 1:67-2:4. The reason the prior art laminated damped drywall panel is so difficult to break is because "the component gypsum layers [of the panels] have a liner back paper (or liner fiberglass nonwoven) that has a high tensile strength." *Id.* at 2:6-10.

The specification defines flexural strength to be the panel's "ability to resist breaking when a force is applied to the center of a simply supported panel." *Id.* at 2:46-48. When a panel is being fitted for installation, a low flexural strength is desired because once the installer scores the panel, "a low [flexural strength] value indicates that the scored panel may be easily fractured by hand without excessive force." On the other hand, "[f]or a pristine panel, a high flexural strength is desirable since it allows for easy transportation and handling without panel breakage." *Id.* at 2:56-68.



Figure 1 illustrates an embodiment of the invention. Items 101 and 103 are the top and 22 23 bottom gypsum board layers, respectively. Id. at 4:29, 5:35. The "bottom face of gypsum layer 24 101 is an unfaced (without paper or fiberglass liner) interior surface 104." Id. at 4:31-33." 25 Correspondingly, "[t]he top face of gypsum layer 103 is an unfaced (without paper or fiberglass 26 liner) interior surface 105." Id. at 5:38-40. Item 102 is a sound-dampening glue layer. Id. at 4:38-27 45. As a result of items 104 and 105 being unfaced (i.e., without paper or fiberglass liner), "[t]he 3 28 Case No. 18-CV-00346-LHK ORDER CONSTRUING DISPUTED TERMS OF U.S. PATENT NOS. 8,181,738 AND 9,388,568

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flexural strength value of the finished laminate [panel] 100 significantly decreases." Id. at 6:44-46.

B. Implicated Claims

The parties' claim construction disputes concern claims 1 and 23 of the '738 Patent and claim 21 of the '568 Patent. ECF No. 75 at 1-5.

C. Procedural History

On March 3, 2017, Plaintiff filed Pacific Coast Building Products, Inc. v. CertainTeed Gypsum, Inc., Case No. 17-cv-1116-LHK. Case No. 17-cv-1116-LHK, ECF No. 1. This case is related to the instant case because the same two patents were being asserted. Id. However, the related case was litigated until the parties stipulated to dismissal without prejudice on October 3, 2017. Case No. 17-cv-1116-LHK, ECF No. 58.

On January 16, 2018, Plaintiff filed the instant patent infringement suit against both CertainTeed Gypsum, Inc. and Saint Gobain Performance Plastics Corp. ECF No. 1. On February 13, 2018, Defendants answered the complaint. ECF No. 32.

On August 29, 2018, the parties filed a joint claim construction and prehearing statement. ECF No. 75. On September 28, 2018, the Plaintiff filed its opening claim construction brief. ECF No. 80 ("Opening Br."). On October 12, 2018, Defendants filed their responsive claim construction brief. ECF No. 82 ("Resp. Br."). On October 19, 2018, Plaintiff filed its reply construction brief. ECF No. 83 ("Reply").

The Court held a claim construction hearing on November 29, 2018.

20 II. LEGAL STANDARD

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A. Claim Construction

The Court construes patent claims as a matter of law based on the relevant intrinsic and 22 extrinsic evidence. See Lighting Ballast Control LLC v. Philips Elecs. N. Am. Corp., 744 F.3d 23 1272 (Fed. Cir. 2014) (en banc); Phillips v. AWH Corp., 415 F.3d 1303 (Fed. Cir. 2005) (en banc). 24 "Ultimately, the interpretation to be given a term can only be determined and confirmed with a full 25 understanding of what the inventors actually invented and intended to envelop with the claim." 26 Phillips, 415 F.3d at 1316 (internal quotation marks and citation omitted). Accordingly, a claim 27

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should be construed in a manner that "stays true to the claim language and most naturally aligns with the patent's description of the invention." Id.

In construing disputed terms, a court looks first to the claims themselves, for "[i]t is a 'bedrock principle' of patent law that 'the claims of a patent define the invention to which the patentee is entitled the right to exclude." Id. at 1312 (quoting Innova/Pure Water, Inc. v. Safari Water Filtration Sys., Inc., 381 F.3d 1111, 1115 (Fed. Cir. 2004)). Generally, the words of a claim should be given their "ordinary and customary meaning," which is "the meaning that the term[s] would have to a person of ordinary skill in the art in question at the time of the invention." Id. at 1312-13. In some instances, the ordinary meaning to a person of skill in the art is clear, and claim construction may involve "little more than the application of the widely accepted meaning of commonly understood words." Id. at 1314.

12 In many cases, however, the meaning of a term to a person skilled in the art will not be 13 readily apparent, and a court must look to other sources to determine the term's meaning. See id. 14 Under these circumstances, a court should consider the context in which the term is used in an 15 asserted claim or in related claims and bear in mind that "the person of ordinary skill in the art is 16 deemed to read the claim term not only in the context of the particular claim in which the disputed term appears, but in the context of the entire patent, including the specification." Id. at 1313. The 17 specification "is always highly relevant" and "[u]sually . . . dispositive; it is the single best 18 19 guide to the meaning of a disputed term." Id. at 1315 (quoting Vitronics Corp. v. Conceptronic, 20Inc., 90 F.3d 1576, 1582 (Fed. Cir. 1996)). Indeed, "the only meaning that matters in claim construction is the meaning in the context of the patent." Trs. of Columbia Univ. v. Symantec 22 *Corp.*, 811 F.3d 1359, 1363 (Fed. Cir. 2016). Where the specification reveals that the patentee has given a special definition to a claim term that differs from the meaning it would ordinarily possess, "the inventor's lexicography governs." Id. at 1316. Likewise, where the specification reveals an 24 intentional disclaimer or disavowal of claim scope by the inventor, the inventor's intention as revealed through the specification is dispositive. Id. 26

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In addition to the specification, a court may also consider the patent's prosecution history,

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which consists of the complete record of proceedings before the United States Patent and
Trademark Office ("PTO") and includes the cited prior art references. The prosecution history
"can often inform the meaning of the claim language by demonstrating how the inventor
understood the invention and whether the inventor limited the invention in the course of
prosecution, making the claim scope narrower than it would otherwise be." *Id.* at 1317.

A court is also authorized to consider extrinsic evidence in construing claims, such as "expert and inventor testimony, dictionaries, and learned treatises." Markman v. Westview Instruments, Inc., 52 F.3d 967, 980 (Fed. Cir. 1995) (en banc), aff'd, 517 U.S. 370 (1996). Expert testimony may be particularly useful in "[providing] background on the technology at issue, ... explain[ing] how an invention works, ... ensur[ing] that the court's understanding of the technical aspects of the patent is consistent with that of a person of skill in the art, or ... establish[ing] that a particular term in the patent or the prior art has a particular meaning in the pertinent field." Phillips, 415 F.3d at 1318. Although a court may consider evidence extrinsic to the patent and prosecution history, such evidence is considered "less significant than the intrinsic record" and "less reliable than the patent and its prosecution history in determining how to read claim terms." Id. at 1317-18 (internal quotation marks and citations omitted). Thus, while extrinsic evidence may be useful in claim construction, ultimately "it is unlikely to result in a reliable interpretation of patent claim scope unless considered in the context of the intrinsic evidence." Id. at 1319. Any expert testimony "that is clearly at odds with the claim construction mandated by the claims themselves, the written description, and the prosecution history" will be significantly discounted. Id. at 1318 (internal quotation marks and citation omitted). Finally, while the specification may describe a preferred embodiment, the claims are not necessarily limited only to that embodiment. Id. at 1323; see also Prima Tek II, L.L.C. v. Polypap, S.A.R.L., 318 F.3d 1143, 1151 (Fed. Cir. 2003) ("The general rule, of course, is that claims of a patent are not limited to the preferred embodiment, unless by their own language.").

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B. Indefiniteness

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Under 35 U.S.C. § 112, ¶ 2 (2006 ed.),¹ a patent must "conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as [the] invention." Section 112, ¶ 2 includes what is commonly called the "definiteness" requirement. Nautilus, Inc. v. Biosig Instruments, Inc., 134 S. Ct. 2120, 2125 (2014). In Nautilus, the United States Supreme Court held that "a patent is invalid for indefiniteness if its claims, read in light of the specification delineating the patent, and the prosecution history, fail to inform, with 6 reasonable certainty, those skilled in the art about the scope of the invention." Nautilus, 134 S. Ct. at 2124. As the Court observed, § 112, ¶ 2 "entails a 'delicate balance." Id. (quoting Festo Corp. v. Shoketsu Kinzoku Kogyo Kabushiki Co., 535 U.S. 722, 731 (2002)). "On the one hand, the definiteness requirement must take into account the inherent limitations of language." Id. (citing 10 Festo, 535 U.S. at 731). "At the same time, a patent must be precise enough to afford clear notice of what is claimed, thereby 'appris[ing] the public of what is still open to them." Id. (quoting Markman, 517 U.S. at 373). Thus, "the certainty which the law requires in patents is not greater than is reasonable, having regard to their subject-matter." Id. at 2129 (quoting Minerals Separation v. Hyde, 242 U.S. 261, 270 (1916)).

The Federal Circuit applied the Nautilus standard in Interval Licensing LLC v. AOL, Inc., 16 766 F.3d 1364 (Fed. Cir. 2014). The case involved two patents which covered an "attention 17 18 manager for occupying the peripheral attention of a person in the vicinity of a display device." Id. 19 at 1366. In one embodiment, the patents involved placing advertising on websites in areas 20surrounding the principal content of the webpage, for example in the margins of an article. Several of the asserted claims included a limitation that the advertisements ("content data") would 22 be displayed "in an unobtrusive manner that does not distract a user of the display device." Id. at 23 1368. The district court found that the terms "in an unobtrusive manner" and "does not distract the user" were indefinite, and the Federal Circuit affirmed. Id. at 1368-69. The Federal Circuit found 24

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¹ Paragraph 2 of 35 U.S.C. § 112 was replaced with newly designated § 112(b) when § 4(c) of the 26 America Invents Act ("AIA"), Pub. L. No. 112-29, took effect on September 16, 2012. Because the applications resulting in '568 Patent was filed before that date, the Court refers to the pre-AIA 27 version of § 112. 7

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that the "unobtrusive manner' phrase is highly subjective and, on its face, provides little guidance to one of skill in the art" and "offers no objective indication of the manner in which content images are to be displayed to the user." Id. at 1371. Accordingly, the Court looked to the written description for guidance. The Court concluded that the specification lacked adequate guidance to give the phrase a "reasonably clear and exclusive definition, leaving the facially subjective claim language without an objective boundary." Id. at 1373. Accordingly, the claims containing the "unobtrusive manner" phrase were indefinite.

In applying the Nautilus standard, the Federal Circuit has cautioned that "the dispositive question in an indefiniteness inquiry is whether the 'claims,' not particular claim terms" fail the Nautilus test. Cox Commc'ns, Inc. v. Sprint Commc'n Co. LP, 838 F.3d 1224, 1231 (Fed. Cir. 2016). For that reason, a claim term that "does not discernably alter the scope of the claims" may fail to serve as a source of indefiniteness. Id. For example, in Cox Communications, the Federal Circuit determined that the term "processing system" did not render the method claims at issue indefinite because "the point of novelty resides with the steps of these methods, not with the machine that performs them." Id. at 1229. Thus, the court reasoned, "[i]f 'processing system' does not discernably alter the scope of the claims, it is difficult to see how this term would prevent the claims . . . from serving their notice function under § 112, ¶ 2." Id.

The Court therefore reviews the claims, specification, and prosecution history to determine 19 whether the claims "inform, with reasonable certainty, those skilled in the art about the scope of the invention." Nautilus, 134 S. Ct. at 2124. Indefiniteness renders a claim invalid, and must be shown by clear and convincing evidence. See Halliburton Energy Servs. v. M-I LLC, 514 F.3d 1244, 1249 (Fed. Cir. 2008); cf. Nautilus, 134 S. Ct. at 2130 n.10.

III. DISCUSSION

The parties request construction of 2 terms in the '738 Patent and 4 terms in the '568 24 25 Patent. The Court addresses each term in each patent in turn.

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A. The '738 Patent

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The parties request construction of 2 terms, both present in claims 1 and 23 of the '738

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1 Patent.

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1. "external surface"

3	Plaintiff's Proposed Construction Defendants' Proposed Construction		
4	The functional surface of the material on the outside of the laminated panelPlain and ordinary meaning		
5	The term "external surface" appears in claims 1 and 23 of the '738 Patent. For example,		
6	claim 1 of the '738 Patent recites:		
7	1. A laminated panel comprising:		
8	a first layer of material having an external surface and an internal surface;		
9	a second layer of material having an external surface and an internal surface;		
10	a layer of viscoelastic glue in contact with the internal surface of said first layer of material		
11	and with the internal surface of said second layer of material, thereby to bond together the first		
12	layer of material and the second layer of material, said viscoelastic glue having an acrylic polymer		
13	in a selected concentration between about 10% and about 60% by weight of acrylic polymer;		
14	further wherein		
15	the viscoelastic glue has a glass transition temperature less than room temperature.		
16	'738 Patent at 13:2-16 (emphasis added).		
17	Plaintiff argues that "external surface" should be construed as "[t]he functional surface of		
18	the material on the outside of the laminated panel." Opening Br. at 22. Defendants argue that the		
19	term can be construed by its plain and ordinary meaning. Resp. Br. at 24. At the claim		
20	construction hearing, Plaintiff conceded that a plain and ordinary meaning construction would be		
21	acceptable to the Plaintiff. For the reasons discussed below, the Court agrees with Defendants		
22	based on the clear terms of the claim language.		
23	a. Claim Language		
24	Claim 1 of the '738 Patent discloses "a first layer of material having an external surface" as		
25	well as a "second layer of material having an external surface." '738 Patent at 13:3-5. The claim		
26	also discloses that there is an internal surface of the first and second layers of material that is in		
27	contact with a layer of viscoelastic glue that bonds together the first and second layers of material.		
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Id. at 13:7-11.

Plaintiff is concerned that the jury might be confused in understanding that "external surface" means the external surfaces of the two layers as bonded together. Instead, Plaintiff argues that the jury might incorrectly think that "external surface" refers to the two surfaces of each layer of material that, when stuck together, comprise the laminated panel. Opening Br. at 23.

Plaintiff's concerns are unjustified. Claim 1 requires the two layers of material be bonded together by the viscoelastic glue. '738 Patent at 13:9-11. Because the two layers of material are bonded together by the glue, the two layers will form a laminated panel as a whole. Thus, taking the claim as a whole, the claim language is unmistakable: "external surface" refers to the external surfaces of the laminated panel as a whole. It does not refer to surfaces of the constituent layers of the panel. The plain and ordinary meaning of "external surface" suffices to convey the relationship between the "external surface" and the laminated panel to a jury.

Furthermore, Plaintiff's construction is not supported by the claim or the specification.
Plaintiff attempts to call the external surface the "functional surface" of the panel, but the term
"functional surface" does not appear anywhere in the patent. "[T]he only meaning that matters in
claim construction is the meaning in the context of the patent." *Symantec Corp.*, 811 F.3d at 1363.
Thus, in the context of the '738 Patent, Plaintiff's proposed construction would inject an
undefined limitation into the meaning of the claim terms.

19 Therefore, the Court adopts the Defendants' position and construes "external surface" to20 have its plain and ordinary meaning.

2. "internal surface"

	Plaintiff's Proposed Construction Defendants' Prop	osed Construction	
5	The functional surface of the material on the inside of the laminated panelPlain and ordinary	meaning	
	The term "external surface" appears in claims 1 and 23 of the '738 Patent. For example,		
	claim 1 of the '738 Patent recites:		
	1. A laminated panel comprising:		
	a first layer of material having an external surface and an internal surface;		
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a second layer of material having an external surface and an internal surface;

a layer of viscoelastic glue in contact with the **internal surface** of said first layer of material and with the **internal surface** of said second layer of material, thereby to bond together the first layer of material and the second layer of material, said viscoelastic glue having an acrylic polymer in a selected concentration between about 10% and about 60% by weight of acrylic polymer; further wherein

the viscoelastic glue has a glass transition temperature less than room temperature. '738 Patent at 13:2-16 (emphasis added).

Plaintiff argues that "external surface" should be construed as "[t]he functional surface of the material on the inside of the laminated panel." Opening Br. at 24. Defendants argue that the term can be construed by its plain and ordinary meaning. Resp. Br. at 24. At the claim construction hearing, Plaintiff conceded that a plain and ordinary meaning construction would be acceptable to the Plaintiff. For the reasons discussed below, which are near-identical to the reasons given in the construction of "external surface," the Court agrees with Defendants based on the clear terms of the claim language.

a. Claim Language

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The Court begins and ends with the claim language. The claim language is clear that there are two layers of material having both an "external surface" and an "internal surface." '738 Patent at 13:3-6. Furthermore, the patent clearly discloses that when the two internal surfaces are glued together, the two layers form the laminated panel. *Id.* at 13:7-11. Thus, "internal surface" needs no further explanation. The claim language makes it obvious that the internal surfaces are the surfaces that are stuck together. Furthermore, the claim defines each layer of material to have an internal surface. Thus, a jury would know from the claim language that "internal surface" refers to the surface of each layer of material in contact with the glue.

25 Once again, Plaintiff's attempt to introduce the limitation "functional surface" adds 26 unnecessary confusion to the claim term's meaning. Presumably, the definition of what the 27 "functional surface" is in relation to the external surface is different from that of the internal

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surface. However, Plaintiff proposes to use the same "functional surface" limitation in the claim
constructions of "internal surface" and "external surface" even though it is clear from the claim
itself that the function of the internal surface differs from that of the external surface. For instance,
the internal surfaces are glued together, whereas the external surfaces are not. *Id.* at 13:7-11.
Furthermore, as aforementioned, "functional surface" is left undefined in the patent, which adds to

the potential confusion if Plaintiff's construction were adopted.

Therefore, the Court adopts the Defendants' position and construes "internal surface" to

have its plain and ordinary meaning.

B. The '568 Patent

The parties request construction of 4 terms, all present in claim 21 of the '568 Patent.

1. "a scored flexural strength of the laminated structure is about 22 pounds per ¹/₂ inch thickness of the structure" and "the scored flexural strength being the flexural strength of the laminated structure after the outer, paper-clad surface of one of the first and second gypsum boards has been scored"

Claim Term	Plaintiff's Proposed Construction	Defendants' Proposed Construction
a scored flexural strength of the laminated structure is about 22 pounds per ½ inch thickness of the structure	The flexural strength of the laminated panel after the outer, paper-clad surface of one of the first and second gypsum boards has been scored is about 22 pounds per ½ inch thickness	Indefinite
the scored flexural strength being the flexural strength of the laminated structure after the outer, paper-clad surface of one of the first and second gypsum boards has been scored	Plain and ordinary meaning	Indefinite

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The terms "a scored flexural strength of the laminated structure is about 22 pounds per ¹/₂ inch thickness of the structure" and "the scored flexural strength being the flexural strength of the laminated structure after the outer, paper-clad surface of one of the first and second gypsum boards has been scored" appear in claim 21 of the '568 Patent. For example, claim 21 of the '568 Patent recites: 21. A laminated, sound-attenuating structure which comprises:

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a first gypsum board having two surfaces, the first of said two surfaces comprising an outer, paper-clad surface and the second of said two surfaces comprising an inner surface, wherein the entire inner surface of the first gypsum board is unclad;

a layer of viscoelastic glue on the second of said two surfaces; and

a second gypsum board over said viscoelastic glue, said second gypsum board having two surfaces, the first of said two surfaces of said second gypsum board comprising an outer, paperclad surface and the second of said two surfaces of said second gypsum board comprising an inner surface, wherein the entire inner surface of the second gypsum board is unclad;

a scored flexural strength of the laminated structure is about 22 pounds per ½ inch thickness of the structure;

the scored flexural strength being the flexural strength of the laminated structure after the outer, paper-clad surface of one of the first and second gypsum boards has been scored.

'568 Patent at 10:13-30 (emphasis added).

Plaintiff argues that the claim language of the claim term beginning with "a scored flexural strength" (the first bolded paragraph) should be construed as "the flexural strength of the laminated panel after the outer, paper-clad surface of one of the first and second gypsum boards has been scored is about 22 pounds per ½ inch thickness." Opening Br. at 9. Plaintiff also argues that the claim language of the claim term beginning with "the scored flexural strength" (the second bolded paragraph) should be given its plain and ordinary meaning. *Id.* at 3. Defendants believe both claim terms are indefinite. Resp. Br. at 8. For the reasons discussed below, the Court agrees with the Defendants.

a. Indefiniteness

In support of indefiniteness, Defendants argue that the phrase "scored flexural strength" is a phrase unique to the Patent, which fails to describe how to measure "scored flexural strength" for three reasons. First, the Patent fails to describe how deep someone is scoring the laminated panel. *Id.* at 8. Second, the Patent fails to provide guidance as to how to convert the scored flexural

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1 strength of a laminated panel of one thickness to the scored flexural strength of a laminated panel 2 of a different thickness. *Id.* There are multiple methods by which flexural strength measurements 3 can be converted between panels of different thicknesses, and the Patent fails to explain how this could be accomplished. Id. This conversion process is important because the '568 Patent's claim 4 5 discloses a flexural strength of a scored panel of about 22 pounds for a ¹/₂ inch panel. '586 Patent at 10:30. As explained above, flexural strength is the panel's "ability to resist breaking when a 6 7 force is applied to the center of a simply supported panel." Id. at 2:46-48. Scored flexural strength 8 is defined by the claim as "the flexural strength . . . after the outer, paper-clad surface of one of the 9 first and second gypsum boards has been scored." Id. at 10:31-34. Scoring the panel is done to 10 make it easier to fracture a panel for fitting and installation. Id; at 2:58-62. Thus, a scored panel has a scored flexural strength that represents the force needed to fracture the scored panel for 11 12 fitting and installation. So, if a hypothetical panel that is not ¹/₂ inch is scored, to assess whether 13 that hypothetical panel would infringe the '568 Patent, that hypothetical panel's flexural strength 14 after scoring must be converted assuming that hypothetical panel were 1/2 inch thick. Therefore, 15 the method by which the scored flexural strength values of panels of differing thicknesses can be 16 converted to the scored flexural strength assuming the patent were $\frac{1}{2}$ inch thick is important to knowing whether other panels infringe claim 21. Third, the industry standard the patent discloses 17 18 for measuring flexural strength reports four results for flexural strength, not one, so a person of 19 ordinary skill in the art would not know which of the four results corresponds to the single 20 measurement in the claim term of 22 pounds per 1/2 inch thickness. Resp. Br. at 8.

On the other hand, Plaintiff argues that the specification provides a definition of "flexural
strength," that the specification discloses that "flexural strength" is measured using an industry
standard, and that the specification explains how to arrive at the "22 pounds per ½ inch thickness"
limitation. Opening Br. at 10.

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i. Claim Language

The Court begins with the claim language. Claim 21 recites "a scored flexural strength of the laminated structure." The Patent then defines "scored flexural strength" to be the "flexural

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strength of the laminated structure after the outer, paper-clad surface of one of the first and second
gypsum boards has been scored." '568 Patent at 10:29-34. However, there is neither an
explanation for how a skilled artisan can measure a scored flexural strength nor an explanation of
how deep the outer, paper-clad surface is scored. Thus, the Court turns to the specification to see if
it can fill these gaps.

ii. Specification

The specification also fails to define scored flexural strength, how to measure it, or how deep to score the laminated panel. Plaintiff points to how the specification defines flexural strength: "[T]he panel's ability to resist breaking when a force is applied to the center of a simply supported panel." *Id.* at 2:47-48. Furthermore, the specification defines how to measure flexural strength:

The measurement technique used to establish the flexural strength of gypsum wallboard of similar construction panels is [industry standard] ASTM [American Society of Testing and Materials standard] C 473-06a "Standard Test Methods for the Physical Testing of Gypsum Panel Products"

Id. at 2:50-53.

Nonetheless, flexural strength is not the same as *scored* flexural strength. What Plaintiff
points to in the specification discusses flexural strength, not scored flexural strength. Furthermore,
as explained below, the industry standard ASTM C473-06a merely discloses how to measure
flexural strength, not scored flexural strength.

In addition, though the parties' experts might agree that "flexural strength" and "scored" as separate phrases are definite, Opening Br. at 6, that does not necessarily mean that "scored flexural strength" is definite. For example, the phrases "melting point" and "elevation" might be definite as separate phrases, but the Federal Circuit held that together, the term "melting point elevation" was indefinite because there were many methods that could be used to prepare a sample of the material in question to test its melting point elevation. *Honeywell Int'l, Inc. v. Int'l Trade Comm'n*, 341 F.3d 1332, 1341 (Fed. Cir. 2003).

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Here, the same problem as in *Honeywell* exists. The specification is limited to defining

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how to measure flexural strength, and does not disclose a method of measuring scored flexural strength. As discussed below, there are many methods by which a person of ordinary skill in the art could go about testing scored flexural strength, and the patent provides absolutely no guidance as to which method should be used. The Court moves on to the prosecution history to see if it sheds any light on the relationship between flexural strength and scored flexural strength.

iii. Prosecution History

The prosecution history here demonstrates that the patentee admits that the prior art does not disclose a "scored flexural strength." In response to a rejection, the patentee amended the claims to state that "the scored flexural strength being the flexural strength of the laminated structure after the outer, paper-clad surface of one of the first and second gypsum boards has been scored." Request for Continued Examination at 3 (September 21, 2011). To distinguish the amended claim over the prior art, the patentee argued that "[w]hile scoring wallboard panels is a standard practice in the industry, the prior art is silent with respect to a 'scored flexural strength."" Id. at 26 (emphasis added).

iv. Extrinsic Evidence

16 Extrinsic evidence confirms that there is no common understanding in the art of how to measure scored flexural strength. Defendants' expert, Dr. D. Paul Miller conducted extensive 17 testing using a sample of Plaintiff's QuietRock EZ-Snap 5/8 inch product,² which meets all the 18 19 claim elements of claim 21. Because the Patent leaves score depth undefined and the industry 20 standard referenced in the Patent is only used to test flexural strength and not scored flexural strength, Dr. Miller had to modify the industry standard testing protocol in order to arrive at values 22 for scored flexural strengths of test specimens. Plaintiff's expert, Mr. Matthew Risinger, did not 23 conduct any independent testing.

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disclose what is meant by scored flexural strength. Second, the industry standard to which the

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First, Dr. Miller explains that the industry standard referenced in the Patent does not

² Plaintiff contends its own QuietRock EZ-Snap 5/8 inch product practices the claimed invention of the '568 Patent. ECF No. 82-4 at 5. 27

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patent refers for measuring flexural strength reports four results for flexural strength, not one. Thus, even if the industry standard could be used to measure scored flexural strength, one of skill in the art would not know which of the four results corresponds to the single measurement in the claim term of "22 pounds per ½ inch thickness." Third, Dr. Miller's testing obtained scored flexural strength values for a 5/8-inch-thick panel,³ but the '568 Patent fails to disclose how to convert a scored flexural strength measurement for a 5/8-inch-thick panel to units of pounds per ½ inch panel thickness as specified in the claim.

First, the industry standard referenced in the Patent does not disclose what is meant by scored flexural strength. Dr. Miller notes that the Patent discloses a standard—American Society of Testing and Materials ("ASTM") C473-06a—to test the flexural strength of gypsum panel products. ECF No. 75-2 ("Miller Decl.") at ¶¶ 3, 48-49. However, "neither the ASTM C473-06a standard nor the '568 patent provide any guidance for determining the 'scored' flexural strength of a gypsum panel product or how deep to score the laminated structure. The flexural strength test specimens in the ASTM C473-06a standard are not scored." *Id.* at ¶ 49.

Plaintiff argues that the specification states that "the present invention . . . can be scored and fractured in the *standard manner* used in construction" and then tested under ASTM C473-06a. '568 Patent at 6:66-7:2 (emphasis added). Plaintiff argues that the extrinsic evidence cited by both sides shows that as used in construction, scoring means cutting through the outer, paper-clad surface on one side of the panel. Opening Br. at 12. However, Dr. Miller's flexural strength tests, which were conducted by scoring Plaintiff's QuietRock EZ-Snap 5/8 inch panel at different depths, show that the scored flexural strength of the panel varies with the score depth. Miller Decl. at ¶ 120. Consequently, the depth of the scoring matters in determining the scored flexural strength of the panel.

Furthermore, Dr. Miller references eleven different variables that might affect score depth
during construction: personal preference, knife/blade used, sharpness or dullness of blade,

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 ³ 5/8 inches is relevant here because that is the thickness of Plaintiff's QuietRock EZ-Snap 5/8 inch panel, on which Dr. Miller conducted testing.
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cleanliness of blade, time of day and level of fatigue, amount of leverage and angle of the blade,
horizontal or vertical position of the panel during scoring, thickness of the panel, type of panel,
size of the panel, and number of scores. *Id.* at ¶ 50. As a result, "[s]coring will vary from installerto-installer and even from product-to-product for an individual installer." *Id.* Thus, the extrinsic
evidence shows that there is no scoring and fracturing in a "standard manner" used in construction,
and that ASTM C473-06a does not disclose a method of measuring scored flexural strength.

Second, ASTM C473-06a—the standard referenced in the Patent for measuring flexural strength—reports four results for flexural strength, not one number like in the claim.⁴ ASTM C473-06a specifies that to conduct a test of a gypsum panel, the panel should be cut into 12 inch by 16 inch specimens. *Id.* at ¶ 51. Four test specimens should be produced, as ASTM C473-06a instructs the tester to "[c]ut four specimens, each 12 in. . . . by 16 in. . . . from each gypsum panel product in the sample, two having the 16-in. dimension parallel to the edge [of the gypsum panel] and two having the 16-in. dimension perpendicular to the edge [of the gypsum panel]." ECF No. 82-6 at § 11.5.1. After cutting the test specimens, the specimens are conditioned for testing before being tested in a "three-point bearing apparatus." Miller Decl. at ¶¶ 55-56.

"ASTM C473-06a tests half of the specimens face-up and half face-down. For the two specimens having the 16 in. dimension cut *parallel* to the 'long edge' (of the original gypsum panel product), one specimen is arranged and tested 'face up' and the other is arranged and tested 'face down."" *Id.* at ¶ 59 (emphasis added). "Face up" means that it is tested with the paper-clad side facing up, and "face down" means the paper-clad side faces down when tested. *Id.* Correspondingly, for the 2 specimens having the 16 in. diameter cut *perpendicular* to the "long edge" of the gypsum panel, they are tested the same way: in a face-up and a face-down configuration. *Id.* Therefore, four values for the flexural strength are reported after testing: "(1) parallel, face up; (2) parallel, face down; (3) perpendicular, face up; (4) perpendicular, face down." *Id.* at ¶ 66. In contrast, and as aforementioned, the '568 Patent reports only one value for

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⁴ The claim language refers to a scored flexural strength of "about 22 pounds per ½ inch thickness of the structure." '568 Patent at 10:30.
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the scored flexural strength of the panel: 22 pounds per 1/2 inch thickness. Thus, using the ASTM C473-06a standard, it is unclear to *which* testing value this scored flexural strength of the panel refers: parallel face up or face down, or perpendicular face up or face down. A person of skill in the art would not be able to tell to which measurement the Patent is referring.

Plaintiff argues that Dr. Miller's opinions about the particular orientation of the specimen are inapplicable to scored flexural strength. Plaintiff notes that "Dr. Miller opines that whether the specimen is tested in a parallel or perpendicular orientation has an effect on its scored flexural strength and that this difference is caused by the direction of the fibers in the outer paper of the boards.... But that cannot be true for scored flexural strength testing because those paper fibers on the surface are cut (scored) before testing such that their orientation no longer plays a role in the board's scored flexural strength." Opening Br. at 14. However, Plaintiff offers no evidence, let alone expert evidence, to support its claim that once scored, the paper fibers on the surface no longer play a role in the board's flexural strength. Dr. Miller's test results, discussed below, demonstrate that Plaintiff's position is wrong; whether a specimen is tested in a parallel or perpendicular orientation has an effect on the measurements of scored flexural strength.

16 Third, the '568 Patent fails to disclose how to convert a measured scored flexural strength of a 5/8 inch thick panel to the units of pounds per $\frac{1}{2}$ inch thickness as claimed in the Patent. Dr. 17 18 Miller discusses two potential methods to convert the flexural strength measurement of a 5/8 inch 19 thick panel to a $\frac{1}{2}$ inch thick panel. The first is the psi method, which looks to "standards for other 20building materials, where there are standard accepted methods for converting flexural strength of a product to structures of different thickness. For example, it is possible to apply the equation used 22 to calculate material flexural strength for wood and plastic." Miller Decl. at ¶ 73. The second 23 method is linear extrapolation, which "means dividing the measured flexural strength by the 24 measured . . . [panel] thickness, and multiplying by ½ inch (the target thickness)." Id. at ¶ 77. Linear extrapolation is also the method the Plaintiff advocates using. Opening Br. at 15.

Dr. Miller then conducted actual flexural strength tests on scored 5/8 inch thick gypsum 26 panels, modifying ASTM C473-06a to test scored panels. Miller Decl. at ¶¶ 88-90. These tests 27

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were conducted to determine whether either the psi method or linear extrapolation can produce the claimed scored flexural strength of "about 22 pounds per 1/2 inch thickness." '568 Patent at 10:30.

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Because the claim does not disclose how deep to score the panel, Dr. Miller adapted the ASTM C473-06a standard to test Plaintiff's QuietRock EZ-Snap 5/8 inch panel at 5 different score depths: 0.5 mm, 1.5 mm, 2.5 mm, 3.5 mm, and 4.5 mm. Id. at ¶ 97. All the different tested score depths pierced through the paper cladding. Id. at \P 98. As explained above, because the tests were conducted with 5/8 inch panels, the scored flexural strength results need to be converted to strength measurements for a $\frac{1}{2}$ inch panel, as the claim requires.

Dr. Miller's results show that the psi method and the linear extrapolation method lead to different scored flexural strength results such that a panel might infringe under one conversion 10 technique but not the other. Id. at ¶¶ 132-37. "Importantly, not a single result satisfies the claim limitation using both the psi calculation and the linear extrapolation to convert from the 5/8 inch result to the $\frac{1}{2}$ inch result." Id. at ¶ 135. Furthermore, the results confirm that "the scored flexural 14 value of a product varies depending on whether the test specimen was cut so that its 16-in. dimension was parallel or perpendicular to the long edge of the original gypsum panel product." Id. at ¶ 126. Additionally, "the scored flexural strength of a product varies depending on how 16 deeply the product is scored." Id. at ¶ 120.

Plaintiff responds by claiming:

The average scored flexural strength value of all scored samples . . . [Dr. Miller] tested—regardless of score depth, orientation of sample (face up/face down; parallel/perpendicular), and even including the obvious outlier—is 23.5 pounds. With the obvious outlier excluded, the average scored flexural value is 22.9 pounds. Both of these values are consistent with the "about 22 pounds" portion of the claim limitation at issue.

Opening Br. at 13-14. However, the problem with Plaintiff's argument is that nowhere in the 23 claim does it say to average the scored flexural strength value of all scored samples. Claim 21 24 claims the "scored flexural strength of *the laminated structure* is about 22 pounds per $\frac{1}{2}$ inch 25 thickness," not an average from multiple laminated structures. '568 Patent at 10:30 (emphasis 26 added). Admittedly, Figure 3 in the Patent discloses an averaged scored flexural strength value for 27 20 28 Case No. 18-CV-00346-LHK

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samples the patentee tested, but the specification lacks any detail about how the patentee went 2 about determining scored flexural strength other than to say it was tested in accordance with the ASTM C473-06a standard. Id. at 6:41-42. As explained above, ASTM C473-06a does not disclose how to test scored panels, so despite what the specification discloses, a person of skill in the art would still not know how to go about conducting such a test. Moreover, because the specification does not disclose how the patentee obtained the results in Figure 3, it is unclear which values and 6 from what tests are being averaged: a perpendicular, face-up sample, a parallel, face-down sample, and so on. Finally, and most importantly, "[w]e do not read limitations from the specification into claims" Thorner v. Sony Comput. Entm't Am. LLC, 669 F.3d 1362, 1366 (Fed. Cir. 2012). The fact that Figure 3 presents an averaged flexural strength value cannot be read to contradict the 10 plain claim language, which presents one unaveraged scored flexural strength value for "the laminated structure." '568 Patent at 10:29.

v. Conclusion

Both the intrinsic evidence and the extrinsic evidence support the view that the claim is indefinite because one of skill in the art would not know how to measure "scored flexural strength." The instant case is similar to a case where the claim term "molecular weight" was found indefinite. Teva Pharm. USA, Inc. v. Sandoz, Inc., 789 F.3d 1335, 1344-45 (Fed. Cir. 2015). The "molecular weight" of something could be determined any one of three possible ways. Id. at 1344. The *Teva* patent specification never defined molecular weight or mentioned the three ways in which it could be measured. Id. at 1344-45. As such, the court found that "the patentee has failed to inform with reasonable certainty those skilled in the art about the scope of the invention." Id. at 1345.

23 Similarly here, the patentee failed to inform a skilled artisan with reasonable certainty about the scope of "scored flexural strength." Like the term "molecular weight" in Teva, there are 24 25 multiple ways to measure scored flexural strength, which Dr. Miller proved by scoring the panels he tested at different depths. As Dr. Miller's test results showed, scoring at different depths 26 resulted in different scored flexural strength values. Miller Decl. at ¶ 120. Furthermore, as Dr. 27

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Miller explained, following the Patent's own directions to use ASTM C473-06a to test for scored flexural strength would result in four values for flexural strength—perpendicular face up and face down, and parallel face up and face down—not one value as in the Patent claim.

However, Plaintiff cites to case law for the proposition that just because certain testing parameters are not disclosed, that does not render a claim term invalid. *See Koninklijke Philips N.V. v. Zoll Med. Corp.*, 656 Fed. App'x 504 (Fed. Cir. 2016). In *Zoll*, the claim at issue was directed to defibrillator electrodes. *Id.* at 525. The electrodes were used in combination with a layer of electrolytic gel to measure the electrical resistance across two electrodes. *Id.* The Federal Circuit noted that the age of the electrodes, the temperature at which the measurement should be taken, and how many shocks have been previously applied across the electrodes might affect the resistance measurement. *Id.* at 526. Nonetheless, the Federal Circuit held that it did not "find this evidence to be so clearly in favor of finding the claims indefinite that we think it appropriate to overturn the jury's verdict." *Id.*

However, *Zoll* is distinguishable from the instant case. The *Zoll* court thought that "[t]he jury could have viewed the evidence on [the] number of sequential shocks and age of the electrodes as a relatively minor source of imprecision in the claims." *Id.* Here, we do not have a "minor source" of imprecision in the claim language. As discussed above, Dr. Miller's testing demonstrates that there are major sources of imprecision resulting from the lack of clarity about the score depth and the applicable testing methodology. Furthermore, the very methodology disclosed by the '568 Patent to quantify flexural strength, ASTM C473-06a, does not disclose a way to measure scored flexural strength.

Plaintiffs also cite *Ethicon Endo-Surgery, Inc. v. Covidien, Inc.*, which disclosed a patent
related to surgical shears for sealing blood vessels. 796 F.3d 1312, 1315 (Fed. Cir. 2015). The *Ethicon* specification failed to specify a method to measure the clamping pressure of the shears,
but the Federal Circuit did not find the claim indefinite. *Id.* at 1318-19. The Federal Circuit found
that "skilled artisans would understand that the average clamping . . . pressures recited in the . . .
patent's claims can be measured by measuring clamping force at the midpoint of the clamping

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surface area." Plaintiff interprets Ethicon to stand for the proposition that it is acceptable to take the average scored flexural strength measurements in Dr. Miller's testing and compare it to the average claimed in the patent. Reply Br. at 7. However, Ethicon is distinguishable because "the scope of the claims" were "concerned with average clamping . . . pressures." Id. at 1320. Here, there is no support in the claims or the specification for averaging different values of testing results in order to arrive at one value for scored flexural strength. For instance, the patent does not teach that in order to arrive at the claimed "around 22 pounds per 1/2 inch" strength value, a skilled artisan averages the results from a perpendicular, face-up sample, a parallel, face-down sample, and so on.

In sum, although the '568 Patent specification mentions an industry standard for determining flexural strength, the specification never discloses how to measure scored flexural strength. As Dr. Miller's expert evidence indicated, there are many ways of going about determining the scored flexural strength of a panel. Furthermore, converting a scored flexural strength of a 5/8 inch panel to a ¹/₂ inch panel introduces even more ambiguity into the claim. Thus, the claim term "scored flexural strength" is indefinite. Therefore, the Court adopts Defendants' position and holds "a scored flexural strength of the laminated structure is about 22 pounds per $\frac{1}{2}$ inch thickness of the structure" to be indefinite.

Furthermore, the Court finds the '568 Patent's second claim term "the scored flexural 19 strength being the flexural strength of the laminated structure after the outer, paper-clad surface of one of the first and second gypsum boards has been scored" to be indefinite as well. This claim term also uses the phrase "scored flexural strength" which, as the Court has discussed, is indefinite because the way to measure scored flexural strength is undefined. Furthermore, the depth at which to score the panel is left unspecified.

24 The parties agree that if the Court finds these two terms to be indefinite, then those terms 25 would be claim dispositive for claim 21 in the '568 Patent. ECF No. 75 at 5 ("The parties believe that if the Court finds that the two 'flexural strength' terms from the '568 Patent are indefinite, 26 then those terms would be claim dispositive for the '568 Patent."). Therefore, the Court need not 27

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IV. CONCLUSION

For the foregoing reasons, the Court construes the disputed claim terms as follows:

construe the two remaining terms in claim 21: "inner surface" and "outer, paperclad surface."

1. "external surface" in the '783 Patent as its plain and ordinary meaning;

2. "internal surface" '783 Patent as its plain and ordinary meaning;

- "a scored flexural strength of the laminated structure is about 22 pounds per ¹/₂ inch thickness of the structure" in the '568 Patent as indefinite; and
- "the scored flexural strength being the flexural strength of the laminated structure after the outer, paper-clad surface of one of the first and second gypsum boards has been scored" in the '568 Patent as indefinite.

IT IS SO ORDERED.

Dated: November 29, 2018

ucy H. Koh

LUCY **d**. KOH United States District Judge

United States District Court Northern District of California

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