	Case 2:07-cv-00331-APG-PAL Document 194 Filed 06/14/10 Page 1 of 27
1	
2	
3	
4	UNITED STATES DISTRICT COURT
5	DISTRICT OF NEVADA
6)
7	HALO ELECTRONICS, INC.,) Plaintiff,) 2:07-CV-00331-PMP-PAL
8	V. (10)
9	PULSE ENGINEERING, INC. and)
10	TECHNITROL, INC.,
11	Defendants.
12	·/
13	Presently before the Court is Plaintiff Halo Electronics, Inc.'s Markman Claim
14	Construction Brief (Doc. #99), filed on September 17, 2009. Defendant Pulse Engineering,
15	Inc. filed an Opposition (Doc. #115) on October 15, 2009. Plaintiff filed a Reply (Doc.
16	#132) on November 19, 2009.
17	Also before the Court is Defendant Pulse Engineering, Inc.'s Markman Claim
18	Construction Brief (Doc. #101), filed on September 17, 2009. Plaintiff Halo Electronics,
19	Inc. filed an Opposition (Doc. #112) on October 15, 2009. Defendant filed a Reply (Doc.
20	#134) on November 19, 2009.
21	Also before the Court is Defendant Pulse Engineering, Inc.'s Markman Claim
22	Construction Brief Regarding Claims Added During Reexamination of the Halo Patents
23	(Doc. #158) filed on January 21, 2010. Plaintiff Halo Electronics, Inc. filed an Opposition
24	(Doc. #159) on February 4, 2010. Defendant filed a Reply (Doc. #166) on February 18,
25	2010. The Court held a hearing on these matters on May 27, 2010. (Mins. of Proceeding
26	(Doc. #191).)
	1

I. BACKGROUND

Plaintiff Halo Electronics, Inc. ("Halo") owns the legal rights to United States 2 Patent Nos. 5,656,985 (the '985 Patent), 6,297,720 (the '720 Patent), 6,297,721 (the '721 3 Patent), 6,344,785 (the '785 Patent), and 6,662,431 ('431 Patent).¹ The '985 Patent is the 4 5 parent Patent from which the other Patents stem. The '985, '785, and '431 Patents have 6 identical specifications, the latter two being "continuations" of the '985 Patent. The '489, 7 '720, and '721 Patents also derive from the same disclosure as the '985 Patent, with some 8 additional information added to their respective specifications. All the Patents relate to an 9 improved design for an electronic surface-mount package. (Decl. of Kristopher Reed in 10 Support of Pulse Eng'g Inc. & Technitrol, Inc.'s Opening Claim Constr. Br. ["Decl. in 11 Support of Pulse's Opening Br."] (Doc. #102), Ex. A at 8 (1:4-18).) The package mounts to the surface of a printed circuit board inside electronic devices, such as computers and 12 13 Internet routers, switches, and hubs. (Id.) Every patent claim asserted by Halo includes at least one "side wall," "toroid transformer," terminal pin "molded within" the package, and 14 15 posts to which wires are attached.

Defendant Pulse Engineering, Inc. ("Pulse") owns the legal rights to United
States Patent Nos. 6,769,936 (the Gutierrez/'936 Patent) and 6,116,963 (the Shutter/'963
Patent). The Gutierrez Patent describes an improved design and method of manufacturing a
single- or multi-connector assembly which may include electronic components. (Decl. of
William Woodford in Support of Halo's Opening Claim Constr. Br. ["Decl. in Support of
Halo's Opening Br."] (Doc. #100), Ex. A at 16 (1:5-11).) The Shutter Patent is a
microelectronic connector that incorporates a simplified design and permits rapid assembly

 ¹ Halo also owns the legal rights to United States Patent 6,320,489 (the '489 Patent).
 The '489 Patent is part of the Patent family stemming from the '985 Patent. However, to narrow the issues in the case, Halo informed Pulse prior to the deadline for filing opening claim construction briefs that it would not assert any claims from this Patent.

by using a "bump and bend" arrangement in the first aspect of the invention, and a "snap" pin arrangement in the second aspect of the invention. (Id., Ex. C at 22-23 (2:25-64).)

3 Plaintiff Halo filed an Amended Complaint alleging Defendant Pulse is 4 infringing on Halo's '985, '720, '721, '785, and '431 Patents by selling surface-mount 5 transformers embodying the patented inventions that contain an electronic surface-mount 6 package including, but not limited to, parts numbers S558-5500-12-F, H1102NL, and 7 HX1188NL. (First Am. Compl. for Patent Infringement ["Am. Compl."] (Doc. #51) at 8 ¶ 16-17.) In response, Defendant Pulse filed Counterclaims alleging Plaintiff Halo is 9 infringing on Pulse's '936 (Guitterrez) and '963 (Shutter) Patents by selling LAN products 10 embodying the patented inventions, including but not limited to, Halo's "FastJacks" 11 connectors. (Ans. of Defs. Pulse Eng'g, Inc. & Technitrol, Inc. to First. Am. Compl.; & 12 Countercl. of Def. Pulse Eng'g for Patent Infringement ["Pulse Answer"] (Doc. #60) at ¶ 13 11.)

14 In 2008, shortly after discovery began, the Court granted Pulse's request to stay 15 the litigation because a third party had asked the United States Patent and Trademark Office 16 ("PTO") to reexamine the validity of the five Halo patents in the suit. (See Mot. to Stay Pending Reexamination by Defs.' Pulse Eng'g, Inc., Technitrol, Inc. (Doc. #70); Order 17 Granting Mot. to Stay (Doc. #72).)² Upon completion of the reexamination, the PTO 18 19 confirmed the validity of every claim in the five Halo patents asserted in this litigation and 20 allowed Halo to add 66 additional claims. (See Decl. of John Adkisson in Support of Halo 21 Electronics, Inc.'s Response to Defs.' Opening Br. Re: Claims Added During 22 Reexamination of the Halo Patents (Doc. #160), Exs. 1-5.) Halo thereafter asserted most of 23 those new claims against Pulse, and Pulse contends that there are three newly-asserted

24

1

² Approximately eight months later the Court vacated its Order to stay finding no good 25 cause remained to stay the proceedings further given that reexamination of the patents at issue could take several years. (Order Vacating Order on Mot. to Stay (Doc. #79).) 26

claims that require construction by the Court.

II. LEGAL STANDARDS

3 Patent claim construction is a question of law for the Court. Markman v. 4 Westview Instruments, Inc., 517 U.S. 370, 372 (1996). When interpreting claims, a court's 5 primary focus should be on the intrinsic evidence of record, which consists of the claims, 6 the specification, and the prosecution history. Phillips v. AWH Corp., 415 F.3d 1303, 7 1314-17 (Fed. Cir. 2005) (en banc). The Court should begin by examining the claim 8 language. Id. at 1312. Claim language should be viewed through the lens of a person of 9 "ordinary skill in the relevant art at the time of the invention." SanDisk Corp v. Memorex 10 Prods, Inc., 415 F.3d 1278, 1283 (Fed. Cir. 2005). If the claim language is clear on its 11 face, then consideration of the other intrinsic evidence is limited "to determining if a 12 deviation from the clear language of the claims is specified." Interactive Gift Exp., Inc. v. 13 Compuserve Inc., 256 F.3d 1323, 1331 (Fed. Cir. 2001).

14 The Court should give the claim's words their "ordinary and customary" 15 meaning." Phillips, 415 F.3d at 1312-13 (quotation omitted). In construing a claim term's 16 ordinary meaning, the context in which a term is used must be considered. ACTV, Inc. v. Walt Disney Co., 346 F.3d 1082, 1088 (Fed. Cir. 2003). Both asserted and unasserted 17 18 claims of the patent also can add meaning to a disputed claim term as claim terms normally 19 are used consistently throughout the patent. Phillips, 415 F.3d at 1314. Additionally, where 20 the patents at issue "all derive from the same parent application and share many common 21 terms, [the court] must interpret the claims consistently across all asserted patents. NTP, 22 Inc. v. Research In Motion, Ltd., 418 F.3d 1282, 1293 (Fed. Cir. 2005).

23 "[C]laims must be read in view of the specification, of which they are a part."
24 <u>Phillips</u>, 415 F.3d at 1315 (quotation omitted). The specification can offer "practically
25 incontrovertible directions about a claim meaning." <u>Abbott Labs. v. Sandoz, Inc.</u>, 566 F.3d
26 1282, 1288 (Fed. Cir. 2009). For example, the patentee may act as its own "lexicographer"

and give a specialized definition of a claim term either explicitly or implicitly, in which case, the specification acts as a dictionary for the patent. <u>Id.</u>; <u>see also Phillips</u>, 415 F.3d at 1321. "Likewise, inventors and applicants may intentionally disclaim, or disavow, subject matter that would otherwise fall within the scope of the claim." <u>Abbott Labs.</u>, 566 F.3d at 1288.

"When consulting the specification to clarify the meaning of claim terms, courts 6 must take care not to import limitations into the claims from the specification." Id. 7 "[A]lthough the specification may well indicate that certain embodiments are preferred, 8 particular embodiments appearing in the specification will not be read into claims when the 9 claim language is broader than such embodiments." Tate Access Floors, Inc. v. Maxcess 10 Techns., Inc., 222 F.3d 958, 966 (Fed. Cir. 2000) (quotation omitted). "By the same token, 11 the claims cannot enlarge what is patented beyond what the inventor has described in the 12 invention." Abbott Labs., 566 F.3d at 1288 (internal quotation omitted). 13

Pursuant to the definiteness requirement in Section 112 of the Patent Act, "[t]he 14 specification shall conclude with one or more claims particularly pointing out and distinctly 15 claiming the subject matter which the applicant regards as his invention." 35 U.S.C. § 112, 16 ¶ 2. Whether a claim satisfies this requirement is a matter of law determined by the Court 17 construing the patent claims. Datamize, LLC v. Plumtree Software, Inc., 417 F.3d 1342, 18 1347 (Fed. Cir. 2005) (citing 35 U.S.C. § 112, ¶ 2.) "[T]he purpose of the definiteness 19 requirement is to ensure that the claims delineate the scope of the invention using language 20 that adequately notifies the public of the patentee's right to exclude." Id. Thus, the 21 standard for determining indefiniteness is whether "the claims at issue are sufficiently 22 precise to permit a potential competitor to determine whether or not he is infringing." 23 Exxon Research & Eng'g Co. v. U.S., 265 F.3d 1371, 1375 (Fed. Cir. 2001) (quotation and 24 alteration omitted). However, because of the statutory presumption of patent validity, claim 25 terms are considered invalid for indefiniteness "only if reasonable efforts at claim 26

construction prove futile." <u>Id.</u> Clear and convincing evidence therefore must be shown to invalidate a patent. <u>Datamize</u>, 417 F.3d at 1348.

3 In addition to the specification, the Court also should consider the patent's prosecution history which consists of "the complete record of the proceedings before the 4 PTO and includes the prior art cited during the examination of the patent." Phillips, 415 5 F.3d at 1317. However, because the prosecution represents an "ongoing negotiation" rather 6 than the "final product" of the negotiation, "it often lacks the clarity of the specification and 7 thus is less useful for claim construction purposes." Id. Consulting the prosecution history 8 can, however, be helpful in determining whether the patentee disclaimed an interpretation 9 during prosecution. Research Plastics, Inc. v. Federal Packaging Corp., 421 F.3d 1290, 10 1296 (Fed. Cir. 2005). "Under the doctrine of prosecution disclaimer, a patentee may limit 11 the meaning of a claim term by making a clear and unmistakable disavowal of scope during 12 prosecution." Purdue Pharma L.P. v. Endo Pharm. Inc., 438 F.3d 1128, 1136 (Fed. Cir. 13 2006). 14

If the claim language is not clear after reviewing all intrinsic evidence, then the
Court may refer to extrinsic evidence such as expert testimony, inventor testimony,
dictionaries, and learned treatises. <u>Zodiac Pool Care, Inc. v. Hoffinger Indus., Inc.</u>, 206
F.3d 1408, 1414 (Fed. Cir. 2000). "Relying on extrinsic evidence to construe a claim is
proper only when the claim language remains genuinely ambiguous after consideration of
the intrinsic evidence. Such instances will rarely, if ever, occur." <u>Interactive Gift Exp.</u>,
Inc., 256 F.3d at 1332 (internal quotation omitted).

22 III. DISCUSSION

Having considered, in accord with the standards above, the arguments of counsel
presented in the briefs and at the hearing conducted May 27, the Court construes the patent
terms as follows.

26 ///

1

2

A. The Gutierrez/'936 Patent

1. Substrate Being Disposed in a Substantially Horizontal Orientation & Horizontal Disposition

The parties dispute the meaning of "substrate being disposed in a substantially horizontal orientation" and "horizontal disposition" as the terms are used in claims 1 and 37. (Decl. in Support of Halo's Opening Br., Ex. A at 23 (16:17-18), 25 (20:25).)

7 8	Plaintiff Halo's Proposed Construction	on Defendant Pulse's Proposed Construction
9 0	Indefinite because claims lack an objective anchor and cannot be constru	ed. These terms do not require construction by the Court, as the plain and ordinary meaning of each term is understood by one of ordinary skill in the art.

Beginning with the claim language, neither claim 1 nor claim 37 provide an objective anchor to inform a party to what the substrate in claim 1, and the insert body in claim 37, are horizontal. The prosecution history explains that "substantially horizontal" was included to further clarify why the present invention differed from the Imschweiler prior art, but it does not help to clarify to what the relevant element is horizontal. (Decl. in Support of Halo's Opening Br., Ex. B at 103-04.) Moreover, because the object can be disposed so that any of its sides are horizontal to the ground, the Court finds an objective anchor is necessary to clarify the claim term. Figure 3a of the Patent and its corresponding specification establishes that the substrate is "disposed horizontally and in substantially coplanar orientation with the insert element." (<u>Id., Ex. A at 5, 20 (10:3-4)</u>.) Figure 1a establishes that the insert element is inserted in the housing of the modular connector along the bottom interior surface of the housing. (<u>Id., Ex. A at 4</u>.)

The Court therefore holds that "substrate being disposed in a substantially horizontal disposition" in claim 1 means horizontal to the insert element, and "horizontal disposition" in claim 37 means horizontal to the bottom interior surface

2. Bottom Interior Surface

1

2

3

4

The parties dispute the meaning of "bottom interior surface" as it is used in claims 11-14. (Decl. in Support of Halo's Opening Br., Ex. A at 24 (17:13-28).)

Construction Indefinite because claims lack an objective anchor. This term does not require of the Court, as the plain and of ordinary skill in the art. Based on the plain language of the claim, it is unclear what "both there is no objective anchor, and depending on how the invention is dispose constitute the bottom. Pulse contends the top of the modular connector is clocation of the tab for the modular plug, as shown in Figure 1a. (See id., E Court therefore holds that "bottom interior surface" means the oppositive where the modular plug tab is located. 3. Majority of Length of Said First Conductors Disposed Said Electronic Components The parties dispute the meaning of "majority of length of said fir disposed away from said electronic components" as it is used in claim 23. of Halo's Opening Br., Ex. A at 24 (18:20-25).) Defendant Pulse's Proposed Construction Indefinite. This term does not require the Court, as the plain and of ordinary skill in the art. the extent the Court require the torm should be construe thalf of the length of said fir the court, as the plain and comparison of the same discover the court as the plain and comparison of the length of said fir the court as the plain and comparison of the court court courtent the court court courtent the court courtent the		
anchor. the Court, as the plain and of meaning of each term is undof ordinary skill in the art. Based on the plain language of the claim, it is unclear what "both there is no objective anchor, and depending on how the invention is dispose constitute the bottom. Pulse contends the top of the modular connector is clocation of the tab for the modular plug, as shown in Figure 1a. (See id., E Court therefore holds that "bottom interior surface" means the opposite where the modular plug tab is located. 3. Majority of Length of Said First Conductors Disposed Said Electronic Components The parties dispute the meaning of "majority of length of said fir disposed away from said electronic components" as it is used in claim 23. of Halo's Proposed Construction Indefinite. This term does not require the Court, as the plain and comparing of ordinary skill in the art. Indefinite. This term does not require the term should be construction are not directly proximate to the term should be construe thalf of the length of said fir are not directly proximate to the court require the term should be construction		Defendant Pulse's Proposed Construction
there is no objective anchor, and depending on how the invention is dispose constitute the bottom. Pulse contends the top of the modular connector is a location of the tab for the modular plug, as shown in Figure 1a. (See id., E Court therefore holds that "bottom interior surface" means the opposi where the modular plug tab is located. <u>3. Majority of Length of Said First Conductors Disposed Said Electronic Components</u> The parties dispute the meaning of "majority of length of said fir disposed away from said electronic components" as it is used in claim 23. of Halo's Opening Br., Ex. A at 24 (18:20-25).) Plaintiff Halo's Proposed Construction Indefinite. This term does not require the Court, as the plain and of meaning of each term is un of ordinary skill in the art. the extent the Court require thalf of the length of said fir are not directly proximate to	th m	This term does not require construction by the Court, as the plain and ordinary meaning of each term is understood by one of ordinary skill in the art.
constitute the bottom. Pulse contends the top of the modular connector is election of the tab for the modular plug, as shown in Figure 1a. (See id., E Court therefore holds that "bottom interior surface" means the opposite where the modular plug tab is located. 3. Majority of Length of Said First Conductors Disposed Said Electronic Components The parties dispute the meaning of "majority of length of said fir disposed away from said electronic components" as it is used in claim 23. of Halo's Opening Br., Ex. A at 24 (18:20-25).) Plaintiff Halo's Proposed Construction Indefinite. This term does not require the Court, as the plain and of ordinary skill in the art. the extent the Court require the term should be construct half of the length of said fir are not directly proximate to	Based on the plain language of the claim, it is unclear what "bottom" means	
location of the tab for the modular plug, as shown in Figure 1a. (See id., E Court therefore holds that "bottom interior surface" means the oppositive where the modular plug tab is located. 3. Majority of Length of Said First Conductors Disposed Said Electronic Components The parties dispute the meaning of "majority of length of said fir disposed away from said electronic components" as it is used in claim 23. of Halo's Opening Br., Ex. A at 24 (18:20-25).) Plaintiff Halo's Proposed Construction Defendant Pulse's Propose Construction Indefinite. This term does not require the Court, as the plain and construction of ordinary skill in the art. the extent the Court require the term should be construe thalf of the length of said fir are not directly proximate to the construction of the length of said fir are not directly proximate to the construction of the length of said fir are not directly proximate to the construction of the length of said fir are not directly proximate to the construction of the length of said fir are not directly proximate to the construction of the length of said fir are not directly proximate to the construction of the length of said fir are not directly proximate to the construction of the length of said fir are not directly proximate to the construction of the length of said fir are not directly proximate to the construction of the length of said fir are not directly proximate to the construction of the length of said fir are not directly proximate to the construction of the length of said fir are not directly proximate to the construction of the length of said fir are not directly proximate to the construction of the length of said fir are not directly proximate to the construction of the length of said fir are not directly proximate to the construction of the	nd depending on h	on how the invention is disposed, any side can
Court therefore holds that "bottom interior surface" means the opposite where the modular plug tab is located. <u>3. Majority of Length of Said First Conductors Disposed Said Electronic Components</u> The parties dispute the meaning of "majority of length of said fired disposed away from said electronic components" as it is used in claim 23. of Halo's Opening Br., Ex. A at 24 (18:20-25).) Plaintiff Halo's Proposed Construction Indefinite. This term does not require the Court, as the plain and or meaning of each term is und of ordinary skill in the art. the extent the Court require the term should be construe half of the length of said fir are not directly proximate to the court provimate to the court of the length of said fire are not directly proximate to the court of the length of said fire are not directly proximate to the court of said fire are not directly proximate to the court of the length of said fire are not directly proximate to the court of the length of said fire are not directly proximate to the court of the length of said fire are not directly proximate to the court of the length of said fire are not directly proximate to the court of the length of said fire are not directly proximate to the court of the court of the length of said fire are not directly proximate to the court of the length of said fire are not directly proximate to the court of the length of said fire are not directly proximate to the court of the length of said fire are not directly proximate to the court of the court of the length of said fire are not directly proximate to the court of the co	ontends the top of	of the modular connector is established by the
where the modular plug tab is located. 3. Majority of Length of Said First Conductors Disposed Said Electronic Components The parties dispute the meaning of "majority of length of said find disposed away from said electronic components" as it is used in claim 23. of Halo's Opening Br., Ex. A at 24 (18:20-25).) Plaintiff Halo's Proposed Construction Defendant Pulse's Propose Construction Indefinite. This term does not require the Court, as the plain and on meaning of each term is und of ordinary skill in the art. the extent the Court require that for the length of said fir are not directly proximate to	lular plug, as show	hown in Figure 1a. (See id., Ex. A at 4.) The
3. Majority of Length of Said First Conductors Disposed Said Electronic Components The parties dispute the meaning of "majority of length of said find disposed away from said electronic components" as it is used in claim 23. of Halo's Opening Br., Ex. A at 24 (18:20-25).) Plaintiff Halo's Proposed Construction Defendant Pulse's Propose Construction Indefinite. This term does not require the Court, as the plain and on meaning of each term is und of ordinary skill in the art. the extent the Court require the term should be construct half of the length of said fir are not directly proximate to the court of the court of the length of said fir are not directly proximate to the court of the length of said fir are not directly proximate to the court of the length of said fir are not directly proximate to the court of the length of said fir are not directly proximate to the court of the length of said fir are not directly proximate to the court of the length of said fir are not directly proximate to the court of the court of the length of said fir are not directly proximate to the court of the length of said fir are not directly proximate to the court of the court	bottom interior su	or surface" means the opposite surface from
Said Electronic ComponentsThe parties dispute the meaning of "majority of length of said findisposed away from said electronic components" as it is used in claim 23.of Halo's Opening Br., Ex. A at 24 (18:20-25).)Plaintiff Halo's Proposed ConstructionDefendant Pulse's Proposed ConstructionIndefinite.This term does not require the Court, as the plain and of ordinary skill in the art.the extent the Court require the term should be construe half of the length of said fir are not directly proximate to the court provide the court of the court require the term should be constructed by the construction	is located.	
disposed away from said electronic components" as it is used in claim 23.of Halo's Opening Br., Ex. A at 24 (18:20-25).)Plaintiff Halo's Proposed ConstructionDefendant Pulse's Proposed ConstructionIndefinite.Indefinite.This term does not require the Court, as the plain and on meaning of each term is uno of ordinary skill in the art. the extent the Court require the term should be constructed half of the length of said fir are not directly proximate to the court of the court of the length of said fir are not directly proximate to the court of the length of said fir are not directly proximate to the court of the length of said fir are not directly proximate to the court of the length of said fir are not directly proximate to the court of the length of said fir are not directly proximate to the court of the length of said fir are not directly proximate to the court of the length of said fir are not directly proximate to the court of the length of said fir are not directly proximate to the court of the length of said fir are not directly proximate to the court of the length of said fir are not directly proximate to the court of the length of said fir are not directly proximate to the court of the length of said fir are not directly proximate to the court of the court of the length of said fir are not directly proximate to the court of the co	3. Majority of Length of Said First Conductors Disposed Away From Said Electronic Components	
of Halo's Opening Br., Ex. A at 24 (18:20-25).) Plaintiff Halo's Proposed Construction Defendant Pulse's Proposed Construction Indefinite. This term does not require the Court, as the plain and on meaning of each term is und of ordinary skill in the art. the extent the Court require the term should be construct the term should be construct half of the length of said fir are not directly proximate to the term should be constructed by the term should by the term should be constructed by the term should by the term should by the term should be constructed by the term should be constructed by the term should by the term should be constructed by the term should by the term	The parties dispute the meaning of "majority of length of said first conductors	
Plaintiff Halo's Proposed ConstructionDefendant Pulse's Propos ConstructionIndefinite.This term does not require the Court, as the plain and c meaning of each term is und of ordinary skill in the art. the extent the Court require the term should be construe half of the length of said fir are not directly proximate to	ronic components"	ents" as it is used in claim 23. (Decl. in Suppo
Construction Indefinite. This term does not require the Court, as the plain and or meaning of each term is und of ordinary skill in the art. the extent the Court require the term should be construe half of the length of said fir are not directly proximate to the term should be constructed to the ter	of Halo's Opening Br., Ex. A at 24 (18:20-25).)	
the Court, as the plain and o meaning of each term is und of ordinary skill in the art. the extent the Court require the term should be construe half of the length of said fir are not directly proximate to		Defendant Pulse's Proposed Construction
the extent the Court require the term should be construe half of the length of said fir are not directly proximate to	th m	This term does not require construction by the Court, as the plain and ordinary meaning of each term is understood by one
are not directly proximate to	th th	of ordinary skill in the art. Alternatively, t the extent the Court requires a construction the term should be construed as "more than
	a	half of the length of said first conductors are not directly proximate to said electronic components."
8		

The Court finds that a person of ordinary skill in the art would understand 1 "majority" to mean more than half. However, the term "disposed away" from in the context 2 3 of the claim language is ambiguous. The claim's plain language explains that the purpose behind disposing the conductors away from the electronic components is to minimize the 4 5 electromagnetic interaction between the electronic components and the first conductors. (Id. at 24 (18:20-25).) However, the purpose does not help to clarify what "disposed away 6 from" means. In the prosecution history, the inventor attempted to distinguish the present 7 invention from the Imschweiler prior art by arguing that the prior art teaches placing large 8 portions of conductors directly proximate to the electronic components, whereas the present 9 invention teaches separating conductors from the electronic components. (Id., Ex. B at 10 104.) The prosecution history explains that the term "disposed away from" should be 11 interpreted as opposed to "directly proximate to" the electronic components. This proposal 12 clarifies that, in the context of the claim, "disposed away" is not meant to be a nature of 13 degree, but simply a distinguishing characteristic from the prior art. 14 The Court therefore holds that a "majority of length of said first conductors 15 disposed away from said electronic components" means that "a majority of length of 16 said first conductors are not directly proximate to said electronic components." 17 4. Said First Conductors Being Configured to . . . Form at Least One 18 Electrical Pathway Between Said First Conductors and at Least One of Said Plurality of Conductive Pathways of Said Substrate 19 The parties dispute the term as it is used in claim 1. (Decl. in Support of Halo's 20 Opening Br., Ex. A at 23 (16:22-26).) 21 22 Plaintiff Halo's Proposed Construction **Defendant Pulse's Proposed** 23 Construction 24 Contains nonsensical limitation that renders This term does not require construction by the claim incapable of construction. the Court, as the plain and ordinary 25 meaning of each term is understood by one of ordinary skill in the art. 26

1	Based on a plain reading of the claim	m language, the claim explains that the	
2	conductors are configured in such a way that there is an electrical pathway between the		
3	conductors and the conductive pathways within the substrate. The Court therefore holds		
4	that the claim does not require construction by the Court, as the plain and ordinary		
5	meaning of each term is understood by one of ordinary skill in the art.		
6	5. Conductive Pathways		
7	The parties dispute the term "condu	ctive pathways" as it is used in claim 1.	
8	(Decl. in Support of Halo's Opening Br., Ex. A	A at 23 (16:15-16).)	
9	Plaintiff Halo's Proposed Construction	Defendant Pulse's Proposed Construction	
10 11	Conductive traces embedded in or on the substrate through which signals may pass.	No construction is required, as the plain meaning of the term is apparent. Alternatively, the term should be construed	
12 13	* A previous construction (Aug. 21, 2009): Traces embedded in the substrate through which electrical signals may pass.	as "paths, formed of one or more conductive materials, through which electrical signals may pass."	
14 15	The parties agree that "conductive p	oathways" must pass electrical signals.	
16	However, they dispute whether "conductive pa	athways" are limited to traces and whether the	
17	pathways must be part of the substrate. Becau	se the claim language already associates the	
18	conductive pathways with the substrate, it is u	nnecessary to include the limitation in the	
19	claim construction.		
20	With respect to whether "traces" should be an included construction limitation,		
21	the patent specification and associated claim la	anguage makes clear that "conductive	
22	pathways" is not synonymous with "traces." I	n the specification it states "[i]n the	
23	illustrated embodiment, the substrate element	301 comprises a printed circuit board (PCB)	
24	having a plurality of surface mount contac	t pads and conductive traces of the type well	
25	known in the art, although other substrate tech	nologies may be substituted." Additionally,	

26 in comparing claim 1 to claim 15, claim 15 states "a substrate . . . having a plurality of

conductive traces associated therewith." (Id. at 20 (10:4-9), 24 (17:40-45).) Thus, the use of a substrate with conductive traces in claim 15 illustrates the inventor's intent that claim 1 2 3 have a different scope. Indeed, a substrate consisting of traces and pads, as it is shown in the preferred embodiment, is simply one technological possibility. 4

The Court therefore holds "conductive pathways" means "paths through which electrical signals may pass."

6. Second Conductors

The parties dispute the term "second conductors" as it is used in claims 1, 23, and

37. (Decl. in Support of Halo's Opening Br., Ex. A at 23 (16:28-29), 24 (18:26-29), 25

(20:21, 36-37).)10

1

5

6

7

8

9

17

1 2	Plaintiff Halo's Proposed Construction	Defendant Pulse's Proposed Construction
13	Conductors that provide a path for the transmitted signal from the conductive pathways or traces to the external device.	No construction is required, as the plain meaning of the term is apparent. Alternatively, the term should be construed
14 15 16	Alternative proposition: Conductors that provide a path for the transmitted signal and that are adapted to electrically interface with the external device.	as "conductors that are separate and distinct from the first conductors."

18 The claim's plain language establishes that second conductors are those 19 conductors that provide a path for the transmitted signal. (See id., Ex. A at 23 (16:28-32).) 20 In contrast, the third conductors are those conductors associated with the optional LED 21 lights. (Id. at 25 (20:10-18).) Accordingly, the claim language establishes that the second 22 conductors are more than just those conductors that are separate and distinct from the first 23 conductors. It is unnecessary, however, to include a limitation that the second conductors 24 are adapted to electrically interface with the external device because in some claims it is 25 redundant, and in others the claim language does not make it a requirement. (See id. at 23 26 (16:28-33) & 25 (20:38-45).)

1	The Court therefore holds "second conductors" means "conductors that		
1			
2	provide a path for the transmitted signal."		
3			
4	B. The Shutter/'963 Patent		
5	<u>1. Contour Element</u>		
6		contour element" as it is used in claims 1, 16	
7	and independent claims 19, 27, and 29 in the '		
8	Opening Br., Ex. C at 26 (9:10, 20; 10:6, 15, 3	35, 51), 27 (11:27, 43, 67; 12: 8, 13-14).)	
9	Plaintiff Halo's Proposed Construction	Defendant Pulse's Proposed	
10		Construction	
11	A raised or recessed feature that physically contacts the bend of an electrical lead both	A feature with a distinct shape, such as a bump, notch, tab, or recess.	
12	before and after the modular plug is inserted into the cavity.		
13			
14	Pursuant to the plain and ordinary la	anguage in claim 1 and 16, the purpose of	
15	the bend in the electrical lead is to "engage wi	th contour element," and the purpose of	
16	the contour element is to "retain first leads w/i	in cavity" and "to cooperate with bend to	
17	maintain first leads in contact with electrical leads of modular plug." (Id. at 26 (9:12-		
18	19; 10:12-20).) Additionally, in claim 19, which explains a method of manufacturing a		
19			
20			
21	when the second leads are inserted into the cavity, they "cooperate" with the contour		
22	elements. (Id. at 26 (10:43-51).) Although the	e prosecution history shows that the	
23			
24	patent claims use the terms "cooperate" and "e	engage" interchangeably to describe the	
25	relationship between the electrical lead bend a	and the contour element. (Decl. of	
26	Kristopher Reed in Support of Responsive Cla	aim Constr. Br. of Defs. Pulse Eng'g, Inc.	
l			

1	& Technitrol, Inc. (Doc. #116), Ex. B at 7-9.)
2	The purpose of the engagement between the contour element and the
3	electrical lead is to "maintain the lead in contact with the modular plug." (Decl. in
4	Support of Halo's Opening Br., Ex. C at 27 (11:54-60).) Further, according to the
5	summary of the invention, at least one of the purposes of the present invention was to
6	utilize a design wherein the use of adhesives was unnecessary to keep the front
7	connector body element connected to the rear connector body element. (See id. at 22
8	(1:55-59) & 23 (3:8-12).) Thus, the invention necessarily requires constant physical
9	contact between the contour element and the electrical leads.
10	The specification also explains the shape of the contour element. With
11	respect to one embodiment, the specification states:
12	These contour elements 140 are raised, somewhat rounded "bumps" in the present embodiment, although it will be
13	appreciated that other element shapes and configurations (Such as notches, tabs or recesses) may be used.
14	
15	(<u>Id.</u> at 23 (4:53-57).) The Court finds Pulse's proposed construction that the contour
16	element be a feature with a distinct shape could include an infinite number of shapes,
17	and as such, is not sufficiently descriptive.
	The Court therefore holds that "contour element" means "a raised or
18	recessed feature that physically contacts the bend of an electrical lead both before
19	and after the modular plug is inserted into the cavity."
20	
21	C. Halo's Patents ('985, '720, '721, '785, and '431)
22	1. Electronic Surface Mount Package
23	The parties dispute the term "electronic surface mount package" as it is used
24	
25	in the preamble of Patents '985, '720, '721, '785. (Decl. in Support of Pulse's
26	Opening Br., Exs. A-E.)
-	

6

25

26

2	Plaintiff Halo's Proposed Construction	Defendant Pulse's Proposed Construction
3 4 5	The phrase is not a claim limitation and need not be construed. Alternatively, the phrase should be construed as "an electronic device configured to attach to the surface of a printed circuit board."	A surface mounting package that is for DC voltages only in which one or more toroid transformers are embodied.

"Whether to treat a preamble as a limitation is a determination resolved only 7 on review of the entire patent to gain an understanding of what the inventors actually 8 invented and intended to encompass by the claim." Cataline Mktg. Int'l, Inc. v. 0 Coolsavings.com, Inc., 289 F.3d 801, 808 (Fed. Cir. 2002) (internal quotation and 10 alteration omitted). "In general, a preamble limits the invention if it recites essential 11 structure or steps, or if it is necessary to give life, meaning, and vitality to the claim." 12 Id. (internal quotation omitted). "Conversely, a preamble is not limiting where a 13 patentee defines a structurally complete invention in the claim body and uses the 14 preamble only to state a purpose or intended use for the invention." Id. (internal 15 quotation omitted). Although there is no specific test for determining when a preamble 16 limits claim scope, some guideposts have emerged. One important guidepost 17 recognizes that "clear reliance on the preamble during prosecution to distinguish the 18 claimed invention from the prior art transforms the preamble into a claim limitation 19 because such reliance indicates use of the preamble to define, in part, the claimed 20 invention." Id. Alternatively, "preambles describing the use of an invention generally 21 do not limit claims because the patentability of apparatus or composition claims 22 depends on the claimed structure, not on the use or purpose of that structure." Id. at 23 809. 24

It is unnecessary to include in the construction of the preamble the limitation that the electronic surface mount package includes one or more toroid transformers in

because the claim language already includes the limitation. Thus, the parties only dispute is whether the claim should be limited to "DC voltages only."

3 The preamble should not be construed as a claim limitation because the claim describes a structurally complete invention in the claim body, and there was no 4 express disclaimer in the prosecution history that limited the present invention to DC 5 voltages only. In distinguishing the present invention from the Flentge prior art, the 6 prosecution history states "[t]he present invention is directed toward applications for 7 packages mounted on a printed circuit board in an electronic device, which requires 8 very low current and voltages, and is for DC voltages only." (Decl. in Support of 9 Pulse's Opening Br., Ex. K at 5.) Based on the sentence's structure, the Court finds the 10 distinction was not referencing the present invention, but instead refers to what the 11 package is mounted on—a printed circuit board that is for DC voltages only. This 12 interpretation is consistent with the Flentge prior art, which is intended for applications 13 that use AC voltage. (Id.) 14

Construing the term as Pulse suggests would be inconsistent with what one 15 of ordinary skill in the art would understand and it would exclude the preferred 16 embodiment of the patent. The summary of the invention states that the present 17 invention is an "improved electronic surface mount package" which suggests there is a 18 common understanding of electronic surface mount packages in the art, and Halo's 19 invention is simply an improved version of the device. (Decl. in Support of Pulse's 20 Opening Br., Ex. A at 8 (1:16-17).) Although the Court typically should not rely on 21 extrinsic evidence, "[b]ecause the meaning of a claim term as understood by persons of 22 skill in the art is not often immediately apparent," the court may consider "extrinsic 23 evidence concerning relevant scientific principles, the meaning of technical terms, and 24 the state of the art" to determine what one of ordinary skill in the art would understand 25 the term to mean. Phillips, 415 F.3d at 1314. 26

1

Halo's expert Ian Crayford ("Crayford") states that one of ordinary skill in the art would understand that surface-mount packages with toroid transformers, which is the preferred embodiment disclosed in the patents, are intended to be "used in applications with two circuits that operate on different DC voltages and where AC voltages are transferred between the two circuits," and the "DC voltages only" statement refers to "the printed circuit boards that are powered with DC voltages." (Decl. of Ian Crayford ["Crayford Decl."] (Doc. #113) at ¶¶ 8-19.) Additionally, Crayford states that one of ordinary skill in the art "would not understand this statement to mean that Halo's devices do not work with AC voltage signals because the very purpose of the disclosed isolation transformers in the Halo patents is to isolate DC voltages so that the AC networking signals can pass between the two circuits." <u>Id.</u> at ¶ 19.

Pulse contends the Court should not consider Crayford's Declaration because his credibility is questionable as he was a consultant for Halo during the pendency of this litigation. (Crayford Depo. at 26-27.) The Court agrees that the weight to be given to Crayford's expert opinion is limited by the factors Pulse cited. However, Pulse fails to offer any evidence of its own to contradict Crayford's conclusion as to what one of ordinary skill in the art would understand the present invention to be.

The Court therefore holds the term "electronic surface mount package" is "an electronic device configured to attach to the surface of a DC voltage only printed circuit board."

2. By/In a Soft Silicone Material

The parties dispute the term "by/in a soft silicone material" as it used in Patents '985 claims 1-21, '720 claims 2-4, and '785 claims 2, 16, 25. (Decl. in Support of Pulse's Opening Br., Exs. A, B, E.)

2	Plaintiff Halo's Proposed Construction	Defendant Pulse's Proposed Construction
3	The claim elements should be construed separately and in a manner consistent	Retained inside the construction package by a silicone material that is not a hard
4	with the actual language of the claims.	plastic or a cured or hard epoxy.
5	Carried Within Said Package by a Soft Silicone Material ('985 claims 1-2,	
6	6, 8; '785 claim 2): Situated inside the package and supported by soft silicone	
7	material.	
8	Within Said Package in a Soft Silicone Material ('720 claims 2-4, 6): Situated	
9	inside the package in contact with a soft silicone material.	
10		
11	Within the Package and Secured by a Soft Silicone Material ('785 claims 16, 25): Situated inside the package and held	
12	in place by a soft silicone material.	
13	Soft Silicone Material: A silicone material that is resilient so as to allow	
14	expansion of the toroid when heated.	

15 Though they differ slightly, the plain language of the claims establish that 16 the common purpose of the silicone material is to keep the toroid transformers in the 17 package. Moreover, without the silicone material, there is nothing to keep the toroid 18 transformers from falling out of the open-bottom package. Therefore, the use of the 19 term "retain" is an appropriate description of the purpose of the silicone material. 20 With respect to how to construct soft silicone material, the specifications for 21 the patents explains that the purpose of the material is to allow for toroidal expansion 22 when the toroid is heated. (See id., Ex. B at 10 (2:48-53).) Additionally, in the 23 specifications, the inventors discuss the problems with using hard plastics or a hard

²⁴ epoxy type material as it has a tendency to crack the package during heating. (See id.,

- ²⁵ Ex. B at 10 (1:22-23, 2:45-54); Ex. C at 9 (1:22-33, 2:45-54).) While the purpose of
- ²⁶ the silicone material clarifies its meaning, one of ordinary skill in the art would

understand that soft silicone plastic does not mean hard plastic or epoxy.

Based on the plain language of the claim terms and the specification, the Court holds "by/in a soft silicone material" as it is used in the various patents means "retained inside the package by a soft silicone material." Additionally, a "soft silicone material" means "a silicone material that is resilient so as to allow expansion of the toroid when heated."

3. Separated From One Another So as to Avoid Arcing

The parties dispute the term "separated from one another so as to avoid arcing" as used in Patents '985 claim 5, '720 claim 5, and '785 claim 8, 13, 22, 31. (Decl. in Support of Pulse's Opening Br., Exs. A, B, E.)

2	Plaintiff Halo's Proposed Construction	Defendant Pulse's Proposed Construction
13 14	Separated from one another by at least a distance that is roughly the same as the width of the posts.	Claim term is indefinite pursuant to 35 U.S.C. § 112.

The claim's plain language does not explain how far apart the posts must be from each other to avoid arcing. However, in the file history of the '720 Patent, the inventor explained that to avoid arcing the "pin spacing must be about the same as the pin width, roughly." (Decl. of William Woodford in Support of Halo's Responsive Claim Constr. Br. ["Decl. in Support of Halo's Responsive Br."] (Doc. #114), Ex. D at 19.) Based on the explanation in the '720 Patent's file history, a person with ordinary skill in the art would be able to determine how far apart the pins are in the present invention. Therefore, the Court construes "separated from one another so as to avoid arcing" to mean "separated from one another by at least a distance that roughly is the same as the width of the posts." /// ///

4. Standoff/Safeguard

The parties dispute the term "standoff/safe guard" as it is used in Patents '985 claim 7, '720 claims 5, 7, 8, '721 claims 7, and '785 claims 9, 17, 18-19, 34.

(Decl. in Support of Pulse's Opening Br., Exs. A, B, C, E.)³

Plaintiff Halo's Pro Construction	posed	Defendant Pulse's Proposed Construction
A portion of the case the solder posts that	is capable of	A portion of the construction package designed to rest in contact with the
preventing the solder contacting the printe		printed circuit board after mounting in order to raise the remainder of the
		package off the printed circuit board for easy cleaning, and to ensure that the pi
		posts do not touch the printed circuit board.

The parties do not dispute that the stated purpose of the claimed standoff is to prevent the posts from contacting the PC board. The dispute lies in (1) whether to do so, the standoff necessarily must be in contact with the PC board, and (2) whether the reference to "easy cleaning" in the prosecution history constitutes an express disclaimer.

The claims' plain language does not clarify whether the standoff is in contact with the PC board. Additionally, both parties agree that Figures 5 and 6 and their corresponding specifications are ambiguous. Pulse contends the figures represent the device prior to being pressed down on the PC board, which explains why the terminal pin is .015 inches below the PC board. Conversely, Halo contends a mistake was made when drawing the figures as the location of the PC board should have been drawn as coplanar with the terminal pin, not the standoff. Additionally, Halo contends Pulse's

23 24

1

2

3

4

12

13

14

15

16

17

18

19

20

21

³ Halo agrees the claim term "standoff" and "safeguard" have the same meaning and are used interchangeably throughout the patents. (Halo Br. in Opp'n to Pulse's Opening Claim Constr. Br. (Doc. #112) at 19-20.)

interpretation is incorrect as the device was not designed to be pressed down on the PC board with such force as to bend the terminal pin .015 inches during application.

3 Reading the claims in view of the specification in which they are part, Pulse's proposed resolution of the ambiguity in the figures is more persuasive. The 4 5 specification states "FIG. 5 shows the stand off 34, in which the parts typically are placed automatically by machine onto a PC board. They are pressed down as it 6 desirable to have some limitation of how far they can be pressed." (Decl. in Support of 7 Pulse's Opening Br., Ex. A at 8 (2:37-43).) The specification also states "FIG. 6 shows 8 the distance in relationship between the end of the post 12 and where the PC board 36 9 is located and also where the standoff 34 ends. The PC board 36 would be at the base 10 of the foot." (Id. at 8 (2:44-47).) Thus, the specification supports the interpretation 11 that Figure 6 represents the device prior to being mounted, with the PC board being 12 coplanar with the base of the foot or terminal pin after the device is mounted and 13 pressed on the PC board. 14

With respect to whether the proposed construction should include language 15 that the standoff keeps the package off the PC board for easy cleaning, the prosecution 16 history referencing this primarily discusses the superiority of the post design and only 17 mentions the "easy to clean" aspect to the standoff as one of its advantages. (See Decl. 18 in Support of Pulse's Opening Br., Ex. O at 8.) Thus, the reference cannot be 19 construed as an express disclaimer. 20

21

1

2

The Court therefore holds "standoff/safeguard" to mean "a portion of the package designed to rest in contact with the printed circuit board after 22 mounting in order to prevent the solder posts from contacting the printed circuit 23 board." 24

- /// 25
- /// 26

5. Extending Through and Below a/the Bottom of Said Side Wall

The parties dispute the term "extending through and below a bottom of said side wall" and "extending through and below the bottom of said side wall" as it is found in Patents '721 claims 1-2, 6, and '720 claims 1-4, 6, respectively. (Decl. in 4 5 Support of Pulse's Opening Br., Exs. B, C.)

Plaintiff Halo's Proposed Construction	Defendant Pulse's Proposed Construction
Ordinary meaning.	Extending through and below one of the bottom surfaces of the said sidewall.
	Compromised Construction: Extending through and below the portion of the sidewall from which they emerge.
	Extending through said sidewall and
	below the plane of the lowest surface of said side wall.

14 The plain language of the claim explains that the post extends through and 15 below the side wall. Although the patents use slightly different language (i.e. "a" vs. 16 "the"), the distinction is irrelevant as they are both referencing the same side wall, and 17 the post is extended through and below said side wall in the same way. The Court 18 therefore holds "extending through and below a/the bottom of said side wall"

- 19 should be construed according to its ordinary meaning.
- 20 /// 21 /// 22

1

2

- /// 23
- /// 24
- ///
- 25 ///
- 26 ///

11	
	Case 2:07-cv-00331-APG-PAL Document 194 Filed 06/14/10 Page 22 of 27
	6. Hour-Glass Shaped Notch
	The parties dispute the term "hour-glass shaped notch" as it is used in Patent
	'720 claim 1. (Decl. in Support of Pulse's Opening Br., Ex. B.)

Plaintiff Halo's Proposed Construction	Defendant Pulse's Proposed Construction
A notch formed by two mirrored indentations on opposite vertical edges of the solder post.	A notch formed by two mirrored indentations on opposite vertical edges of each solder post, such that no portion of either indentation is perpendicular to the vertical edges of either solder post.
The plain language of the claim	does not further clarify what shapes
constitute an "hour-glass shaped notch."	However, a person of ordinary skill in the art
would understand that an hour glass shape	is not limited to shapes exactly replicating
hat of an hour glass. The Court therefore	holds "hour-glass shaped notch" means "a
notch formed by two mirrored indentat	ions on opposite vertical edges of the
solder post."	
7. In Gull Wing Fashion	/Extends in Wing Like Fashion
The parties dispute the term "in	gull wing fashion" and "extends in wing like
fashion" as it used in Patents '720 claims	1, 8, and '721 claims 1-2, 6. (Decl. in
Support of Pulse's Opening Br., Exs. B, C	.)
Plaintiff Halo's Proposed Construction	Defendant Pulse's Proposed Construction
Extending outwardly from the case, then	
extending in a downward fashion away from the case, and then extending outwardly from the case.	sidewall for some length; sloping downward for some intermediate, non- vertical length; and concluding with another horizontal length.
The plain language of claim do	es not help to clarify what the inventors
intended a "gull-wing" shape to mean. Re	ading the prosecution history in context. the

prosecution history disclaimed the Matsuma prior art as not being in a gull wing shape 1 because the majority of the post was enclosed in the package and therefore did not 2 3 extend outwardly from the case. (See id., Ex. R at 6.) Additionally, although the inventors may have made a clear and unmistakable disavowal that their invention was 4 distinct from the Renskers prior art and the McCormick prior art in view of 5 Matsumura, the distinction does not support Pulse's conclusion that claim construction 6 must include language limiting the angles of the segments in a "gull-wing" or "wing 7 like" design. 8

Moreover, claim's plain language does not support Pulse's more limited
construction as it does not limit the angles of a "gull-wing." Even if the figures in the
patent illustrate a design amenable to Pulse's construction, those figures merely
illustrate a preferred embodiment of the patent. The Court will not import limitations
from preferred embodiments when the claim language is broader than such
embodiments.

15 The Court therefore holds "in gull wing fashion" and "extends in a wing
16 like fashion" to mean "extending outwardly from the case, then extending in a
17 downward fashion away from the case, and then extending outwardly from the
18 case."
8 Means for encapsulating the plurality of toroid transformers within

19

8. Means for encapsulating the plurality of toroid transformers within the package

The parties dispute the term "means for encapsulating the plurality of toroid
transformers within the package" as it is used in Patent '785 claim 26. (Decl. in
Support of Pulse's Opening Br., Ex. E.)

24	Plaintiff Halo's Proposed Construction	Defendant Pulse's Proposed Construction
25	(1) Function: embedding the plurality of toroid transformers within the package;	A soft silicone material that covers and
26	(2) Corresponding structure: a silicone	retains the plurality of toroid transformers within the package.

22

23

1

compound, a silicone filling, or a soft silicone material and their equivalents

The parties agree the claim term is written in so called "means-plusfunction" language, and as such, "shall be construed to cover the corresponding structure, material, or acts described in the specification and equivalents thereof." 35 U.S.C. § 112, ¶6. With respect to the function, as discussed above, the soft silicone material retains the toroid transformers inside the package, without which, the toroid transformers would have nothing to keep them in place. Additionally, the prosecution history of the '785 patent equates the term "encapsulate" with "embedding." (See Decl. in Support of Halo's Responsive Br., Ex. D at HALO-NV-0000640.) Pulse points to Figure 4 in the '785 patent to establish that the silicone material also covers the toroid transformers. (Decl. in Support of Pulse's Opening Br., Ex. E at 4.) However, nothing in the claim language requires that the silicone material cover the toroid transformers, and the Court will not import limitations into the claims from the specification when the claim language is broader than such embodiments. <u>Tate Access</u> <u>Floors</u>, 222 F.3d at 966.

With respect to the structures included, Halo proposes including several structures. The structures Halo suggests, however, all refer to the same soft silicone material described in the patent. Accordingly, it is unnecessary to list the various descriptions for the same structure as a person of ordinary skill in the art would understand, for example, that soft silicone material and silicone compound are synonymous.

The Court therefore holds "means for encapsulating the plurality of
 toroid transformers within the package" means "a soft silicone material that

embeds and retains the plurality of toroid transformers within the package."

9. End Wall

The parties dispute the term "end wall" as it used in Patents '985 claims 9, 10, 16, 17, '720 claims 9, 10, 14, 15, '721 claims 8, 9, '785 claims 35, 36, 52, 53, and '431 claims 6, 7. (Decl. of Kristopher Reed in Support of Pulse Eng'g, Inc. & Technitrol, Inc.'s Opening Claim Constr. Br. Re: Claims Added During Reexamination of the Halo Patents ["Decl. in Support of Pulse's Opening Br. Re: Added Claims"] (Doc. #158), Exs. A, B, C, D, E.)

10	Plaintiff Halo's Proposed Construction	Defendant Pulse's Proposed Construction
11	Ordinary meaning.	Synonymous with the terms "standoff" and "safeguard" previously identified as
12		requiring construction by the Court, and should be construed the same as those
13		terms.

The claim's plain language clearly explains that the end wall is on opposite
ends of the side walls. Although a standoff can be described as an end wall, the claim
language does not support that the two terms are synonymous across all patents. For
example, Patent '431 has an end wall but does not have a standoff. (See id., Ex J.)
The Court therefore holds that the term "end wall" requires no construction by the
Court and should be construed according to its ordinary meaning.

10. A Central Section of a Lower Surface of the End Wall

The parties dispute the term "a central section of a lower surface of the end wall" as it is found in Patents '985 claims 10, 17, '720 claims 10, 15, '721 claims 8, 9, '785 claims 36, 53, and '431 claim 7. (Decl. in Support of Pulse's Opening Br. Re: Added Claims. Exs. A, B, C, E.)

This claim term is indefinite under 35 U.S.C. § 112, ¶ 2. is somewhat ambiguous, a person of e claim to mean a portion of the end wall e center portion of the end wall. The ion of a lower surface of the end wall"
e claim to mean a portion of the end wall e center portion of the end wall. The ion of a lower surface of the end wall"
e center portion of the end wall. The ion of a lower surface of the end wall"
ion of a lower surface of the end wall"
that extends below the solder posts"
o Secure the Plurality of Toroid
silient material to secure the plurality of
t is use in Patents '721 claims 10, 13, '78
4. (Decl. in Support of Pulse's Opening
Defendant Pulse's Proposed Construction
This term falls under 35 U.S.C. § 112, 6 ("means-plus-function"). The corresponding material in the specification is a "soft silicone material that covers and retains the plurality of toroid transformers within the package.
the word "means," it still may invoke
2 if the term recites a function without
that function. See Mas-Hamilton Group

described in terms of its function, not its mechanical structure, because the claim could
 not be construed so broadly as to include any conceivable way or means that would
 cause the lever to move. <u>Mas-Hamilton</u>, 156 F.3d at 1214.

The core of the parties' dispute is whether the term "resilient material" sufficiently describes the structure that "support[s] the plurality of toroid transformers within the package" or whether "resilient material" is a function that needs to be construed. Unlike the "lever moving element" in <u>Mas-Hamilton</u>, which could include any conceivable device that could move a lever, the resilient material in the patent must be able to retain the transformers in the package and be capable of expanding during heating. Thus, the term sufficiently describes a structure and not merely a function.

The Court therefore holds "a resilient material to secure the plurality of
 toroid transformers within the package" should be construed according to its
 ordinary meaning.

14 **IV. CONCLUSION**

15

18

20

21

22

23

24

25

26

IT IS SO ORDERED.

16 IT IS FURTHER ORDERED that the parties shall meet and confer and file
17 with the Court their fifteen proposed asserted claims by June 28, 2010.

19 DATED: June 14, 2010

United States District Judge