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6	IN THE UNITED STATES DISTRICT COURT		
7	FOR THE NORTHERN DISTRICT OF CALIFORNIA		
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10	KARL STORZ ENDOSCOPY-AMERICA, INC., No. C 09-00355 WHA		
11	Plaintiff, TENTATIVE CLAIM-		
12	v. CONSTRUCTION ORDER AND REQUEST FOR CRITIQUE		
13	STRYKER CORPORATION and STRYKER COMMUNICATIONS, INC.,		
14	Defendants.		
15 16	AND RELATED COUNTERCLAIMS		
10	AND RELATED COUNTERCLAIMS /		
18	INTRODUCTION		
19	In this patent infringement action involving surgical equipment management, the parties		
20	seek construction of six phrases found in the two asserted patents. Those phrases are construed		
21	below. The parties have until NOON ON MAY 10, 2011, to submit a five-page critique (double-		
22	spaced, no footnotes, and no attachments) limited to points of critical concern. This is an		
23	opportunity for the parties to focus solely on their most cogent critique, not to rehash every point		
24	made in the briefs and at the hearing.		
25	STATEMENT		
26	The traditional approach to surgery required large incisions. A surgeon would cut an		
27	opening in the patient's body large enough to access the site of the procedure. The surgeon then		
28	performed the operation and viewed the operation site directly through the opening.		

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Less invasive surgical techniques developed as alternatives to traditional "open" surgery. In particular, advances in endoscopy made "minimally invasive" surgery possible. An endoscope was (and remains) a small instrument with a camera and a light source that could be inserted into the body through a small incision or hole, enabling surgeons to view the inside of a patient's body without opening the body in the traditional manner. Minimally invasive surgery became common, and many surgical instruments were developed for use along with an endoscope in such operations. The technology at issue in this action relates to coordinating the use and control of such instruments.

9 Three patents were asserted in the operative complaint, but the parties recently stipulated 10 to dismiss one of them (Dkt. Nos. 105, 257). Twenty claims from United States patent No. 5,788,688 and twenty-seven claims from United States patent No. 6,397,286 remain at issue. 12 The parties seek construction of six phrases appearing in these patents. Overviews of the patents, 13 the disputed phrases, and the associated claims are covered in detail in the analysis below.

### ANALYSIS

15 Courts must determine the meaning of disputed claim terms from the perspective of one of 16 ordinary skill in the pertinent art at the time the patent was filed. Chamberlain Group, Inc. v. 17 Lear Corp., 516 F.3d 1331, 1335 (Fed. Cir. 2008). While claim terms "are generally given their 18 ordinary and customary meaning," the "claims themselves provide substantial guidance as to the 19 meaning of particular claim terms." As such, other claims of the patent can be "valuable sources 20 of enlightenment as to the meaning of a claim term." Critically, a patent's specification "is 21 always highly relevant to the claim construction analysis" as well. Phillips v. AWH Corp., 22 415 F.3d 1303, 1312–15 (Fed. Cir. 2005) (en banc) (internal quotations omitted). Indeed, claims 23 "must be read in view of the specification, of which they are a part." Markman v. Westview 24 Instruments, Inc., 52 F.3d 967, 979 (Fed. Cir. 1995) (en banc), aff'd, 517 U.S. 370 (1996). 25 Finally, courts also should consider the patent's prosecution history, which "can often inform the 26 meaning of the claim language by demonstrating how the inventor understood the invention and 27 whether the inventor limited the invention in the course of prosecution, making the claim scope 28 narrower than it would otherwise be." These components of the intrinsic record are the primary

resources in properly construing claim terms. Although courts have discretion to consider extrinsic evidence, including dictionaries, scientific treatises, and testimony from experts and inventors, such evidence is "less significant than the intrinsic record in determining the legally operative meaning of claim language." *Phillips*, 415 F.3d at 1317–18 (internal quotations omitted).

Karl Storz Endoscopy-America, Inc. has asserted the same patents that are at issue in this action against a different defendant in the Western District of Tennessee. Five of the six phrases construed by this order were construed recently in the Tennessee action as well (Dkt. No. 222-1). Stryker Corp. and Stryker Communications, Inc. find the Tennessee court's constructions to be favorable and lean heavily upon them as "confirm[ing] the correctness of Stryker's constructions" (Stryker Br. 1). While the reasoning of the Tennessee court may be instructive, it is not binding in this action. This order is required to — and does — undertake a full, independent analysis of each disputed phrase. *See Aircraft Technical Publishers v. Avantext, Inc.*, No. C 07-4154 (SBA), 2009 WL 3817944, at \*3 (N.D. Cal. Nov. 10, 2009) (Armstrong, J.) (explaining that each district court "has an independent obligation to construe the claims in dispute, and to render its own independent claim construction"). Moreover, the parties reported at the April 27 hearing that the claim construction rulings from the Tennessee court are only tentative, and that because the Tennessee action is stayed it is unknown when that court will finalize its constructions.

While this order acknowledges that the parties have a right to the construction of all disputed claim terms by the time the jury instructions are settled, the Court will reserve the authority, on its own motion, to modify the constructions in this order if further evidence — intrinsic or extrinsic — warrants such a modification. Given that claim construction is not a purely legal matter, but is (as the Supreme Court describes it) a "mongrel practice" with "evidentiary underpinnings," it is entirely appropriate for the Court to adjust its construction of claims prior to trial if the evidence compels an alternative construction. *Markman*, 517 U.S. at 378, 390. The parties should be aware, however, that they are *not* invited to ask for reconsideration of the constructions herein. Motions for reconsideration may be made only in strict accordance with the rules of procedure, if at all.

# 1. THE '688 PATENT

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2	The '688 patent, entitled "Surgeon's Command and Control," was issued on
3	August 4, 1998. Bauer Laboratories, Inc. was the assignee of the '688 patent at the time of issue.
4	KSEA claims to now own the entire right, title, and interest in this patent (Sec. Amd.
5	Compl. $\P$ 13). Twenty claims from the '688 patent are asserted in this litigation: independent
6	claims 1 and 10, and dependent claims 2–9 and 11–20. Four of the phrases construed by this
7	order are found in the '688 patent. They are italicized in the claims below.
8	Claim 1 covers the following apparatus (cols. 19:39–20:10):
9	1. In an endoscopic operating environment defining <i>a</i> surgeon's operating station at which a surgical procedure is
10	<i>performed</i> with a plurality of self-contained independently and simultaneously operable pieces of surgical equipment, each
11	including a surgical control head located at a non-sterile area
12	remote from the surgeon's operating station and associated devices developing an output in response to commands manually entered
13	directly at the surgical control head for driving an associated surgical instrument located at the surgeons [ <i>sic</i> ] operating station,
14	a surgeon's command and control system comprising:
15	a surgeon's control panel operatively positioned at the surgeon's operating station, the surgeon's control panel
16	including display means for displaying data relating to status of each of the plurality of self-contained pieces of
	surgical equipment and input means for receiving
17	commands entered manually;
18	a plurality of communication interface circuits, one for each of said plurality of self-contained pieces of surgical
19	equipment, each for transmitting data representing status of the associated surgical control head and for receiving
20	remote commands for driving the associated self-contained surgical instrument; and
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22	a central controller operatively connected to each said communication interface circuit and said surgeon's control
23	panel, said central controller transmitting to said plurality of self-contained pieces of surgical equipment commands
24	entered manually on the surgeon's control panel and transmitting to said surgeon's control panel status of the
25	surgical control heads for display on said display means to provide a surgeon direct command and control of the
26	plurality of self-contained pieces of surgical equipment located in the non-sterile area remote from the surgeon's
27	operating station,
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whereby each of the plurality of self-contained pieces of surgical equipment can be simultaneously operated with the operation thereof controlled and monitored from the surgeon's operating station. Claims 10 covers a similar apparatus (cols. 20:47–21:19): 10. A surgical control system, comprising: a surgeon's operating station at which a surgical procedure is performed; first and second self-contained and simultaneously operable pieces of surgical equipment each for performing a surgical procedure and including a surgical control head located at an area remote from the surgeon's operating station and associated devices developing a variable output for driving an associated surgical instrument located at the surgeons [sic] operating station, each self-contained piece of surgical equipment including means for producing a signal indicative of the output to each surgical instrument and means for receiving a variable control signal, the output varying in response to variations of the control signal; first and second communication interface circuits for transmitting data representing status of the surgical control heads and for receiving remote commands for driving each of the self-contained surgical instruments; a surgeon's control panel operatively positioned at the surgeon's operating station, the control panel including a display means for displaying data relating to the output to each of the surgical instruments and *input means for* receiving commands entered manually; a central controller operatively connected to said communication interface circuits and said surgeon's control panel, said central controller developing and transmitting to each said self-contained piece of surgical equipment the variable control signal from commands entered manually on the surgeon's control panel and transmitting to said surgeon's control panel data relating to the output of each of the surgical instruments for display on said display means to provide a surgeon direct command and control of the self-contained pieces of surgical equipment located in the non-sterile area remote from the surgeon's operating station, whereby each of the plurality of self-contained pieces of surgical equipment can be simultaneously operated with the operation thereof controlled and monitored from the surgeon's operating station.

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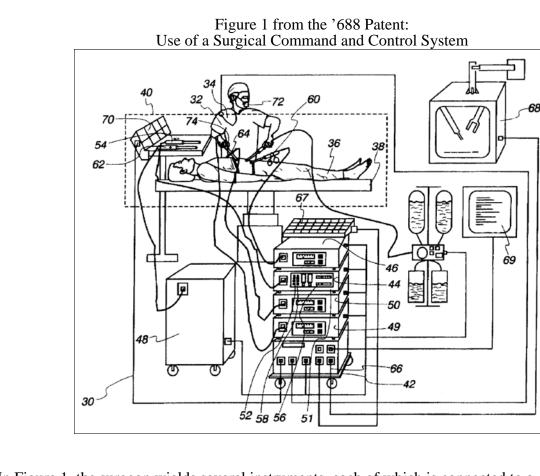
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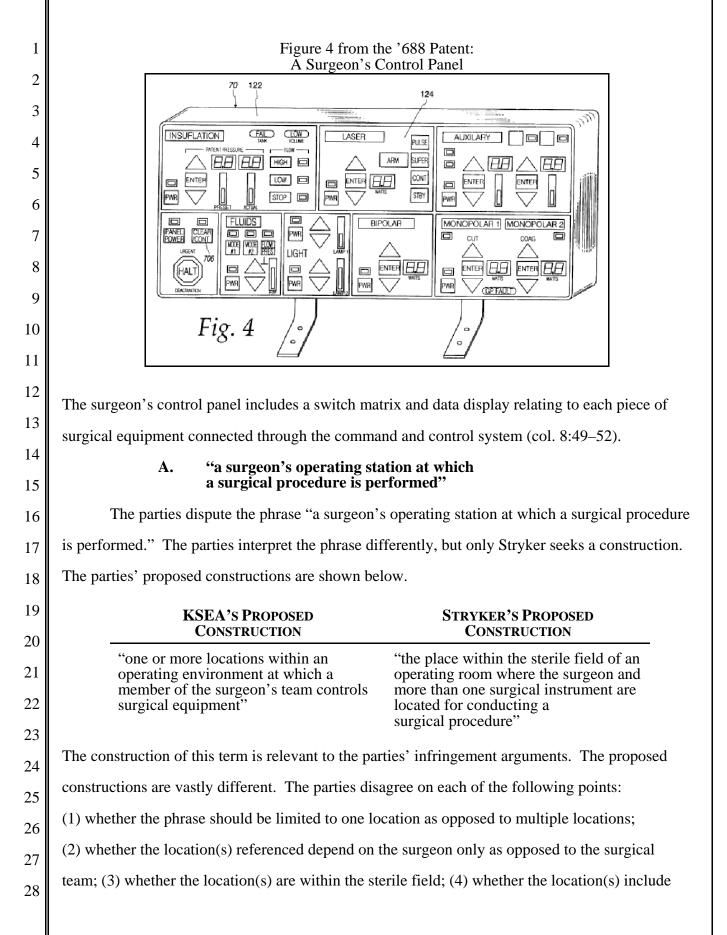
United States District Court For the Northern District of California The growing number of advanced instruments required to perform minimally invasive surgery "result[ed] in a tangle of cords and a conglomeration of equipment to be both monitored and controlled during the course of an operation." The patent further explained: "What should be a serene environment to promote concentration by the surgeon and the support staff bec[ame] a crowded, disorganized theater with a multitude of buzzers, beeps and flashing lights enveloping the surgical team and patient." (col. 2:1–14).

Each instrument used by the surgeon was connected to a "control head," which "typically include[d] a visual display panel for displaying output parameters of the equipment as well as monitored inputs, and a series of buttons and switches for varying the output which drives the surgical instrument" (col. 1:60–64). As more and more instruments were relied on in surgical procedures, operating rooms became more and more cluttered with equipment, and the control heads had to be placed further away from the patient and surgeon (col. 2:1–6). This scattering of equipment required division of the surgeon's attention, and it also limited the surgeon's control over the equipment; verbal instructions were relayed to support staff who managed the control heads for the surgical instruments. The surgeon's inability to directly monitor and control the surgical equipment posed safety risks (col. 2:32–47).

The invention disclosed in the '688 patent assuaged these safety risks by consolidating the functions of the various instruments' control heads into one device. At the technology tutorial, KSEA explained that one of the inventors of the '688 patent, James Bauer, was both a surgeon and a jet pilot. Bauer observed that the cockpit of an airplane displays status information and provides input controls relating to many different aviation instruments and plane features at once, allowing the pilot to monitor and control many different instruments from the pilot seat. The invention of the '688 patent provided a similar solution for surgeons. Figure 1 from the patent depicts a surgeon performing a surgical procedure using a surgical command and control system according to the invention (col. 5:47–79):

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In Figure 1, the surgeon wields several instruments, each of which is connected to a control head. All the control heads are connected to a central equipment control unit (66), which in turn is connected to a surgeon's command and control system (40), with a surgeon's control panel (70) located "proximate the surgeon's operating station" (cols. 6:26–7:37). Figure 4 depicts the surgeon's control panel in greater detail (col. 5:56–57):



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equipment or instruments; and (5) how many items of equipment or instruments are included. 2 The intrinsic evidence answers all of these questions, but the construction of the disputed phrase 3 need not do so. The phrase "a surgeon's operating station at which a surgical procedure is 4 performed" is relatively straightforward and could be understood by a juror without much of the 5 additional detail the parties propose to add.

The plain language of the disputed phrase itself indicates that it refers to a single location — "a surgeon's operating station." The noun "station" is singular, not plural. Thus, "a surgeon's operating station" is a single location. It is the location "at which a surgical procedure is performed." The surrounding claim language confirms this interpretation. Various items are described as being "positioned at the surgeon's operating station," "located at the surgeons [sic] operating station," or "located at a non-sterile area remote from the surgeon's operating station" in the asserted claims (e.g., col. 19:44–52). These descriptions treat the surgeon's operating station as a single location relative to which other locations may be defined. The specification follows suit, for example describing an area "proximate to a surgeon's operating station" as well as using the locational references already quoted from the claims (col. 1:66). The disputed phrase refers to a single location.

17 KSEA's argument to the contrary is unpersuasive. KSEA focuses on claim language 18 stating that the "surgical procedure" performed at the surgeon's operating station "is performed 19 with a plurality of . . . pieces of surgical equipment" (col. 19:39–42). Because the equipment 20 includes control heads and other components scattered about the operating room, KSEA would 21 broaden the definition of "a surgeon's operating station" to include any location at which any 22 component of surgical equipment could be controlled (KSEA Br. 5). This argument fails for 23 several reasons, two of which deserve mention. First, KSEA admits that each piece of surgical 24 equipment includes an instrument to be used in or on the patient (*id.* 4–5). Because the 25 instrument is part of the piece of equipment, a surgeon could use "a plurality of ... pieces of 26 surgical equipment" simply by using a plurality of instruments on the patient — without touching 27 any other equipment component located elsewhere. Second, a construction of "surgeon's 28 operating station" that included every location at which a component of surgical equipment is

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located would contradict the claim language. The claim states that the control heads for the 1 2 pieces of surgical equipment are "located at a non-sterile area remote from the surgeon's 3 operating station" (19:44–45) (emphasis added). Thus, at least the control-head portion of the 4 equipment is located in an area explicitly defined *not* to be part of the surgeon's operating station.

5 Having determined that the disputed phrase refers to a single location, this order further 6 finds that the location is defined relative to the surgeon. Again, the plain claim language compels 7 this conclusion, and the specification provides ample support. The claims specify "a surgeon's 8 operating station" (emphasis added), not "a surgical team's operating station." The specification 9 explains that the invention "unifies the various pieces of equipment currently found in an 10 endoscopic surgical suite into a surgeon-centered system (col. 19:32–34) (emphasis added). Indeed, the invention is called "surgeon's command and control," and its goal is "provid[ing] a 12 surgeon direct command and control of various surgical equipment devices in an operating room, 13 offering to the surgeon heightened situational awareness and command of the surgical procedure" 14 (col. 2:53–57) (emphasis added). These statements focus on a single surgeon, explaining that the 15 invention consolidates equipment control functions to the location of that surgeon. The 16 specification contrasts this arrangement with the prior art practice under which "a surgeon cannot 17 efficiently monitor the output settings of the various control units" and "when a surgeon deems an 18 adjustment of the output settings is required, the instructions must be relayed to support staff 19 outside of the sterile field to actually adjust the equipment" (col. 2:32–39). The point of the 20 invention is bringing all the equipment input and output interfaces to the surgeon who is performing the surgical procedure.

22 KSEA argues that the term "surgeon's operating station" simply reflects that a surgeon "is 23 in charge" and "does not mean that *only* a surgeon works there" (KSEA Br. 5). For example, the 24 summary of the invention mentions "allowing the surgeon and assistant to make equipment 25 adjustments," references "[a] team member making device adjustments," and explains that "[t]he 26 surgeon and entire staff is informed of equipment setting changes" (col. 4:42–43, 52, 56–57). 27 This order recognizes the possibility that other members of the surgical team periodically may 28 perform tasks at the surgeon's operating station. That observation, however, does not justify a

finding that the surgeon's operating station encompasses every location ever occupied by a member of the surgeon's team. On the contrary, the surgeon's operating station is limited to one location, and that location is defined relative to the surgeon. KSEA cites additional references to teamwork in the detailed description of the invention. In one possible embodiment, "mounting options provide ready access to the surgical team," and the system generally "provid[es] direct command and control of operating procedures by the surgical team" (cols. 7:35–37). This language does not address the location of the surgeon's operating station, and the fact that one embodiment may be team-oriented does not limit the scope of the claims.

Turning to the question of whether the surgeon's operating station is located within the sterile field, this order declines to read such a requirement into the disputed phrase at this time, but leaves open the possibility of doing so in the future and the possibility that this will simply be a fact issue for the jury. After the intrinsic evidence is supplemented with expert testimony at trial, it may become clear that a person of ordinary skill in the art would have understood a surgeon's operating station as something that must be located within a sterile field. On the present record, however, the undersigned judge is not yet convinced that the disputed phrase should be construed to include a sterility limitation.

The phrase itself does not contain any words referring to sterility or non-sterility. The only information the claims provide about the surgeon's operating station is that it is the location "at which a surgical procedure is performed with a plurality of self-contained independently and simultaneously operable pieces of surgical equipment" (col. 19:40–42). The only information the claims provide about sterility is that each piece of surgical equipment "includ[es] a surgical control head located at a non-sterile area remote from the surgeon's operating station" (col. 19:43–44). Contrary to Stryker's arguments, the fact that an area remote from the surgeon's operating station is non-sterile does not imply that the surgeon's operating station is sterile. The claim language therefore does not support limiting the surgeon's operating station to being contained within a sterile field.

27 The specification also contains no clear indication that the applicants intended to claim
28 such a limitation. The background section references "the sterile field in which the actual

surgical procedure is conducted" and states that "[t]he surgical instruments are positioned within 1 2 the sterile field proximate to a surgeon's operating station from which the procedure is 3 performed" (col. 1:41-42, 65-67). The most that can be inferred from these statements is that, under the prior art, the instruments were in the sterile field, and the procedure was performed in the sterile field. Because the instruments were *proximate to* the surgeon's operating station, and the procedure was performed *from* the surgeon's operating station, the operating station itself was not necessarily included in the sterile field. Stated in practical terms, the surgeon may have stood in a non-sterile area constituting the surgeon's operating station but reached into the sterile field in order to wield the instruments and perform the procedure. With two exceptions, all of the specification language Stryker cites follows the language quoted above in that it identifies something other than the surgeon's operating station, but not the surgeon's operating station itself, as being located inside the sterile field (Stryker Br. 11). Stryker's resort to the prosecution history has the same problem. Stryker cites a request for reconsideration describing the invention to include "a sterile control panel located at the surgeon's operating station" (Bateman Exh. G at 1–2) (emphasis added). A green car could be parked *at* the library. That would not mean that the car is *in* the library nor that the library is green.

As noted, however, Stryker presents two items of evidence that escape this logical fallacy.
This evidence deserves pause. It does not compel the conclusion that the claimed "surgeon's
operating station" must be sterile, but it nonetheless is instructive. In light of this evidence,
this order declines to hold at this time that the surgeon's operating station may include
non-sterile portions.

Stryker's first instructive item of evidence comes from the detailed description of the
invention. There, the specification explains that Figure 1 depicts an embodiment in which "[t]he
surgeon's operating station 32 is located within a sterile field, shown surrounded in dashed line in
FIG. 1" (col. 6:31–33). This description of a single embodiment, by itself, is not sufficient to
justify reading a sterility limitation into the claims. *Liebel-Flarsheim Co. v. Medrad Inc.*,
358 F.3d 898, 906 (Fed. Cir. 2004) ("Even when the specification describes only a single
embodiment, the claims of the patent will not be read restrictively unless the patentee has

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demonstrated a clear intention to limit the claim scope using words or expressions of manifest exclusion or restriction."). It does, however, make some progress in that direction. That the preferred embodiment locates the surgeon's operating station within the sterile field suggests that a person of ordinary skill in the art might recognize the surgeon's operating station as a smaller zone within a larger sterile field.

The second specification statement that weighs in Stryker's favor comes from the background section: "The surgical team, including surgeons, assistants and supporting nursing staff, must stand within this sterile field and comply with strict 'sterile procedures' to insure that the patient does not become infected as a result of the surgery" (col. 1:42–46). This statement describes the prior art, and there is no clear indication that it was intended to limit the claimed invention. On the other hand, however, it describes generally the field within which the invention was made. A a person of ordinary skill in the art therefore might understand the invention as something to be practiced in a context requiring that the surgeon's operating station be located within a sterile field.

The present record is inconclusive on the question of sterility. This order will not now
read a sterility limitation into the disputed phrase, but it also will not decree that a surgeon's
operating station may include non-sterile areas. For the time being, the question will be left open.
This aspect of the construction may be revisited before the jury instructions are finalized.

19 The parties' last disagreement regarding this first disputed phrase addresses the number 20 and location of surgical instruments or pieces of equipment with respect to the surgeon's 21 operating station. On these points the claim language is relatively straightforward and could be 22 understood by a jury without further elaboration. Specifically, the claim language explains that a 23 surgical procedure is performed at a surgeon's operating station, that the procedure is performed 24 with pieces of surgical equipment, and that each piece of equipment includes a surgical 25 instrument located at the surgeon's operating station, as well as other components located 26 elsewhere (col. 19:39–49). The specification language is consistent with these descriptions and further indicates that the instruments are used to deliver physical effects to the patient (e.g., 27 28 col. 1:37–38). The parties' attempts to define the location of the surgeon's operating station

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relative to the surgical equipment or instruments strain beyond the scope of the disputed phrase 1 2 and contradict the claim language. They are accordingly rejected.

In light of the foregoing, the phrase "a surgeon's operating station at which a surgical procedure is performed" shall be construed to mean "the location a surgeon occupies while using surgical instruments to perform a surgical procedure on a patient," at least for th time being.<sup>1</sup>

#### "a surgeon's control panel operatively positioned **B**. at the surgeon's operating station"

The parties dispute the phrase "a surgeon's control panel operatively positioned at the surgeon's operating station." Again, they interpret the phrase differently, but only Stryker seeks a construction. The parties' proposed constructions are shown below.

KSEA'S PROPOSED CONSTRUCTION	Stryker's Proposed Construction
" a control panel operable from the surgeon's operating station"	"a panel for the surgeon that is positioned within the sterile field such that the surgeon can directly operate the panel from the surgeon's operating station by manually entering commands on the panel and by directly viewing data displays on the panel"
N /· · · · · · · · · · · · · · · · · · ·	station by manually entering commands on the panel and by directly viewing data displays on the panel"
e parties' main dispute regarding this phrase	is whether the control panel must be within t
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sterile field, *i.e.*, sterile. They also dispute whether "operatively positioned at the surgeon's 18 operating station" refers to certain uses by the surgeon. The construction of this phrase is relevant 19 to the parties' infringement arguments.

This order finds that "a surgeon's control panel" need not be sterile, sterilized, or within 21 the sterile field. The plain language of independent claims 1 and 10 simply does not include any 22 such requirement. Dependent claims 9 and 18, on the other hand, add the limitation "wherein 23 said control panel comprises a control panel that is sterilized to avoid transfer of microorganisms 24

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27 operating station to be located within the sterile field and does not incorporate the presence of surgical instruments into the construction. Although this order declines to read a sterility limitation into the disputed 28 phrase at this time, it does not foreclose the possibility of doing so in the future and it does not hold that a surgeon's operating station may include non-sterile areas.

<sup>&</sup>lt;sup>1</sup>The Tennessee court construed "surgeon's operating station" as the "place within the sterile area of the operating environment where the surgeon and the surgical instruments are located during a surgical procedure" (Dkt. No. 222-1 at 11). Unlike the Tennessee construction, this order does not require the surgeon's

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from the control panel to a user" (cols. 20:44–46, 22:10–13). The doctrine of claim
 differentiation thus requires the inference that the "surgeon's control panel" disclosed in claims 1
 and 10 is *not* sterilized. *Phillips*, 415 F.3d at 1315 ("[A] dependent claim that adds a particular
 limitation gives rise to a presumption that the limitation in question is not present in the
 independent claim.").

Stryker nonetheless attempts to split hairs, arguing that the term "sterilized" in the dependent claims refers only to a particular process for making an object sterile. According to Stryker, the control panel of claim 1 could be "sterile" and "within the sterile field" without having been "sterilized" because "claim 1 allows the panel to be protected in other ways, such as covering it with a surgical drape" (Stryker Resp. Br. 12). Stryker's attempt to distinguish between "sterile" and "sterilized" runs afoul of the prosecution history. In response to the rejection of claim 9 as indefinite, the applicants stated that claim 9 "depends from claim 1 and ... further adds the limitation that the panel is a *sterile* control panel" (Bateman Exh. G at 2) (emphasis added). Thus, the applicants used the terms "sterile" and "sterilized" interchangeably, and characterized the control panel in dependent claim 9 as differing from the control panel in independent claim 1 in that the former must be "sterile."

Accordingly, the "surgeon's control panel" of the independent claims need not be sterile and need not be within the sterile field as Stryker suggests. The drawings and specification describe a preferred embodiment of the invention in which the control panel is a "sterile control panel" (*e.g.*, col. 8:49–50). The observation that the panel *may* be sterile, however, does not mean that the panel *must* be sterile in order to practice the claimed invention. In light of the foregoing discussion of the claims themselves, a sterility limitation will not be read from the specification into the disputed phrase.

Turning to the second part of the disputed phrase, the parties disagree whether
"operatively positioned at the surgeon's operating station" requires that the surgeon be able to use
the control panel in certain ways. As discussed with respect to the "surgeon's operating station"
phrase construed above, the goal of the invention is to provide a surgeon direct command and
control of the surgical equipment from his or her operating station. The claim language itself

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repeats that the purpose of the input and output means on the surgeon's control panel is "to *provide a surgeon direct command and control* of the plurality of self-contained pieces of surgical equipment located in the non-sterile area remote from the surgeon's operating station" (col. 20:3–6) (emphasis added). *CVI/Beta Ventures, Inc. v. Tura LP*, 112 F.3d 1146, 1160 (Fed. Cir. 1997) ("In construing claims, the problem the inventor was attempting to solve, as discerned from the specification and the prosecution history, is a relevant consideration.").

7 The phrase "operatively positioned at the surgeon's operating station" serves this goal by 8 locating the control panel close enough to the surgeon that the surgeon can use it without leaving 9 his or her operating station. Cross Med. Prods., Inc. v. Medtronic Sofamor Danek, Inc., 10 424 F.3d 1293, 1306 (Fed. Cir. 2005) (noting that the term "operatively" is used to describe the functional relationship between claimed components). KSEA argues that other members of the 12 surgical team besides the surgeon may operate the surgeon's command and control panel, citing 13 specification language that references a broader goal of "providing direct command and control of 14 operating procedures by the surgical team" (col. 6:43–44). That may be so, but it does not change 15 the foregoing analysis. The crucial requirement is that the surgeon's control panel must be 16 positioned such that the surgeon *can* use it directly from his or her operating station. The 17 observation that other members of the surgical team also may use the control panel is irrelevant.

18 The claim language describes the surgeon's control panel has having two types of 19 functionality: (1) a "display means for displaying data relating to status of each of the plurality of 20 self-contained pieces of surgical equipment," and (2) an "input means for receiving commands 21 entered manually" (col. 19:51–56). The specification matches this description. Thus, the direct 22 use or operation of the surgeon's control panel would require (1) viewing the data displayed on 23 the display means, and (2) manually entering commands through the input means. A control 24 panel "operatively positioned at the surgeon's operating station" such that the surgeon is able to 25 make full use of the control panel would have to be close enough to the surgeon to enable the 26 surgeon to perform both of those functions without leaving his or her operating station.

Based on the foregoing considerations, the phrase "a surgeon's control panel operatively
positioned at the surgeon's operating station." shall be construed to mean "a panel that a surgeon

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 operating station."<sup>2</sup>

operating station.

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# C. "input means for receiving commands entered manually"

The parties dispute the means-plus-function limitation "input means for receiving commands entered manually." The parties' proposed constructions are shown below.

KSEA'S PROPOSED	Stryker's Proposed
CONSTRUCTION	Construction

"a switch matrix, and equivalents thereof, for receiving commands entered manually" "a membrane switch with a switch matrix, the switch matrix being associated with a number of raised switches, buttons or keys that can be depressed by the surgeon"

The construction of this phrase is relevant to the parties' infringement arguments; Stryker seeks to lard up the construction with requirements that would exclude its accused products. For example, Stryker's proposed construction requires "raised switches, buttons or keys that can be depressed," whereas their accused products employ smooth touch-screen panels without any such raised switches, buttons, or keys. Stryker, however, fails to provide adequate support for reading any of the detailed requirements it proposes into the patent claims.

Means-plus-function claim limitations are "construed to cover the corresponding
structure, material, or acts described in the specification and equivalents thereof" for performing
the recited function. 35 U.S.C. 112 ¶ 6. To construe such a limitation, a court first must identify
the claimed function and then must identify the recited structure in the specification that is
capable of performing the recited function. A means-plus-function claim limitation does not
include elements that are not necessary for performing the recited function. *Micro Chem., Inc. v. Great Plains Chem. Co.*, 194 F.3d 1250, 1258 (Fed. Cir. 1999).

Here, the parties agree that the claimed function is "receiving commands entered manually." With respect to identifying the structure that corresponds to this function, however,

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 <sup>&</sup>lt;sup>2</sup>The Tennessee court construed "operatively positioned at the surgeon's operating station" as
 "positioned at the surgeon's operating station within reach and view of the surgeon to allow control and monitoring of the pieces of surgical equipment" (Dkt. No. 222-1 at 14). The construction adopted by this order is not meaningfully different.

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the parties' views diverge. KSEA points to "a switch matrix," whereas Stryker identifies "a membrane switch with a switch matrix" and additionally would require the switch matrix to be "associated with a number of raised switches, buttons or keys that can be depressed by the surgeon." KSEA has the better arguments.

The claims themselves do not specify a structure for "receiving commands entered manually." The specification must be consulted. The detailed description of the invention describes two features of the surgeon's control panel: "a switch matrix" and "panel displays" (col. 8:51–52). As explained in construing the "surgeon's control panel" phrase above, the surgeon's control panel has two types of functionality. The two panel features map onto the two panel functions: the switch matrix performs the function of "receiving commands entered manually," and the panel displays perform the function of "displaying data." No other structure besides the switch matrix is disclosed for performing the function of receiving commands entered manually.

14 Stryker's attempts to deviate from this analysis are misguided. First, Stryker identifies "a 15 membrane switch with a switch matrix" rather than simply "a switch matrix" as the structure 16 corresponding to the function of receiving commands. The specification describes membrane 17 technology as a way to produce a sealed unit that can undergo sterilization (cols. 8:67–9:3). This 18 function has nothing to do with "receiving commands." Membrane technology does not belong 19 in the construction of the disputed term. Further, the construction "a switch with a switch matrix" 20 is nonsensical in the context of the '688 patent. Stryker cites a portion of the specification stating 21 that "[a] membrane switch and display panel 124 includes the switch matrix 112 and 22 displays 114" (col. 8:65–67). Thus, a membrane switch-and-display *panel* includes both (1) a 23 switch matrix, and (2) displays. It is the panel, not a "membrane switch," that includes the switch matrix. Stryker's construction contradicts the grammar of this sentence and describes a switch 24 25 that itself includes a matrix of other switches — something that the claims and specification of the 26 '688 patent neither disclose nor require.

*Second*, Stryker attempts to add the requirement of "a number of raised switches, buttons
or keys that can be depressed by the surgeon." Stryker emphasizes that the specification only

discloses embodiments of the invention that use such raised devices to receive manually-entered 2 commands (Stryker Br. 16). There is, however, no indication that such raised devices are the *only* 3 way a switch matrix could be operated. Indeed, the Federal Circuit has cautioned district courts 4 against inferring unstated claim requirements from the fact that only one type of embodiment is 5 disclosed in the specification. *Liebel-Flarsheim*, 358 F.3d at 906. The '688 patent teaches that the only structure needed for receiving commands is "a switch matrix," which may be embodied 6 7 with raised buttons. Stryker's transparent attempt to escape infringement by reading a raised-8 button requirement into the claims is not supported by the specification.

9 KSEA's proposed construction will be adopted, because it accurately applies the 10 governing law to the intrinsic evidence. Accordingly, the phrase "input means for receiving 11 commands entered manually" shall be construed to mean "a switch matrix, and equivalents 12 thereof, for receiving commands entered manually."<sup>3</sup>

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### "whereby each of the plurality of self-contained pieces of surgical D. equipment can be simultaneously operated with the operation thereof controlled and monitored from the surgeon's operating station"

15 The parties dispute the phrase "whereby each of the plurality of self-contained pieces of 16 surgical equipment can be simultaneously operated with the operation thereof controlled and 17 monitored from the surgeon's operating station." The parties interpret the phrase differently, but 18 only Stryker seeks a construction. The parties' proposed constructions are shown below.

KSEA'S PROPOSED CONSTRUCTION	STRYKER'S PROPOSED CONSTRUCTION
"(1) each of the two or more self- contained pieces of surgical equipment can be operated at the same time, and (2) the operation of a self-contained piece of surgical equipment can be controlled and monitored from the surgeon's operation station"	"each piece of self-contained surgical equipment can be controlled and monitored at the same time from the surgeon's operating station through the surgeon's control panel"

<sup>&</sup>lt;sup>3</sup>The Tennessee court construed "input means" as disclosing a "switch matrix associated with a number 27 of physically manipulable switches, keys or buttons for receiving manually entered commands, which performs the function of receiving commands entered manually" (Dkt. No. 222-1 at 23). This order agrees that the 28 relevant function is receiving commands entered manually and that the corresponding structure is a switch matrix, but the construction adopted here does not require physically manipulable switches, keys, or buttons.

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The construction of this phrase is relevant both to the parties' infringement arguments and to their invalidity arguments. The parties' main dispute concerns whether the phrase requires the 3 capacity to control and monitor multiple pieces of equipment at once. The touch-screen panels on 4 Stryker's accused products display data and controls for only one piece of equipment at a time, so 5 an affirmative answer to this question would help Stryker escape an infringement read 6 (Stryker Br. 10). Additionally, the parties dispute whether the control and monitoring must be 7 done through the surgeon's control panel.

8 Turning first to the question whether the control and monitoring must be done through the 9 surgeon's control panel, this order declines to add Stryker's proposed limitation. Claim 1 was 10 drafted to disclose "a surgeon's command and control system comprising: a surgeon's control 11 panel ...; a plurality of communication interface circuits ...; and a central controller ..., 12 whereby each of the plurality of self-contained pieces of surgical equipment can be 13 simultaneously operated with the operation thereof controlled and monitored . . ." 14 (cols. 19:49–20:9). Claim 10 has a similar structure. Thus, the "whereby" clause refers to "a 15 surgeon's command and control system," which is made up of a control panel, communication 16 interface circuits, and a central controller. The entire command and control system is what makes 17 the monitoring and control in the "whereby" clause possible. Limiting that monitoring and 18 control to the surgeon's control panel, which is only one of three components of the command 19 and control system, would be improper.

20 Stryker emphasizes the claim language "controlled and monitored from the surgeon's 21 operating station" and argues that the "surgeon's control panel operatively positioned at the 22 surgeon's operating station" is the only recited element that a surgeon could use to control and 23 monitor the equipment "from the surgeon's operating station" (Stryker Br. 7). This order partially 24 agrees. The control panel is the only element that the surgeon would use *directly*, but the surgeon 25 would be relying on the entire command and control system (including the communication 26 interface circuits and central controller as well as the control panel) in order to control and 27 monitor the surgical equipment from the surgeon's operating station. The fact that the control

panel is the only element the surgeon would use *directly* is irrelevant to the disputed phrase and 2 would add confusion rather than clarity to its construction.

Turning next to the question of simultaneous control and monitoring, Stryker's position fares somewhat better. The words "with the operation thereof" are at the heart of the parties' dispute about this aspect of the phrase. Each of these words merits close attention. First, the word "with" is significant. KSEA reads the disputed phrase to set forth two "independent" requirements. Not so. The word "with" connects the first and section portions of the phrase by grouping them together into a joint requirement rather than two independent ones. This order, however, does not go so far as to agree with Stryker that "with" translates to "at the same time." Second, the words "the operation" refer to the simultaneous operation described in the first part of the phrase. The adverb "simultaneously" modifies the verb "operated," and there is no other antecedent operation. Third, the word "thereof" refers to "each of the plurality of self-contained pieces of surgical equipment." The simultaneous operation is of "each of the ... pieces of surgical equipment." Thus, the disputed phrase refers to the monitoring and control of the simultaneous operation of multiple pieces of surgical equipment.

16 Stryker cites the prosecution history of the '688 patent to support its argument that the 17 simultaneous control and monitoring of multiple items of equipment (as opposed to the control 18 and monitoring of *simultaneous operation* of the equipment) is required (Stryker Br. 8–9). 19 Stryker first relies on the applicants' statement that "a good portion of the application is directed 20 to the ability of a surgeon to simultaneously control and monitor multiple self-contained pieces of 21 surgical equipment from a central location" (Bateman Exh. E at 7). This statement is too general 22 to override the foregoing analysis of the specific claim language. Stryker also notes that the 23 disputed phrase was added by amendment after claim 1 was rejected as anticipated by a prior art 24 reference (see Bateman Exh. C-E; Aldrich Exh. H). Stryker, however, cites no evidence that 25 simultaneous control and monitoring of equipment (as opposed to control and monitoring of 26 simultaneous operation of the equipment) was understood by the examiner or the applicants as a 27 distinguishing feature of the invention. As explained, the language of the disputed phrase itself

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does not support such an inference absent an explicit statement to that effect in the prosecution 2 history. No such evidence exists.

KSEA explains that "for the embodiments disclosed in the '688 patent, it is impossible to control the operation of two or more pieces of surgical equipment at the exact same time from the surgeon's control panel because the control panel can only receive one command at a time, and because the serial communication link between the control panel and the central controller can only transmit one command at a time" (KSEA Br. 16). Stryker does not contest this statement. Instead, Stryker construes its own proposed construction to mean that the data and controls for all of the pieces of surgical equipment are "present and available to the surgeon at the same time on the surgeon's control panel" even if they cannot all be operated at exactly the same time (Stryker Br. 9). To the extent these arguments apply to the reasoning adopted herein, this order recognizes that the disclosed invention can process only one command at a time.

The phrase "whereby each of the plurality of self-contained pieces of surgical equipment can be simultaneously operated with the operation thereof controlled and monitored from the surgeon's operating station" shall be construed to mean "whereby the simultaneous operation of 16 multiple pieces of surgical equipment can be monitored and controlled from the surgeon's operating station."<sup>4</sup>

#### 2. **THE '286 PATENT**

19 The '286 patent, entitled "Arrangement for the Central Monitoring and/or Control of At 20 Least One Apparatus," was issued on May 28, 2002. Storz Endoskop GmbH was the assignee of 21 the '286 patent at the time of issue. KSEA claims to now own the entire right, title, and interest 22 in this patent (Sec. Amd. Compl. ¶ 17). Twenty-seven claims from the '286 patent are asserted in 23 this litigation: independent claim 1, and dependent claims 3–4, 7–11, 13, 19–20, 22, 24–28, 24 30-33, and 35-40. Two of the terms construed by this order are found in the '286 patent. They 25 are italicized in the claim below.

<sup>27</sup> <sup>4</sup>The Tennessee court construed "can be simultaneously operated" as meaning that "all of the surgical equipment can be controlled and monitored at the same time from the surgeon's control panel" (Dkt. No. 222-1 28 at 18). This order explicitly does not equate operation with control and monitoring, and the construction adopted here does not incorporate reference to the surgeon's control panel.

Claim 1 covers (col. 7:8–20): 1 2 System for centrally controlling a plurality of instruments 1. for endoscopy characterized by: 3 a *self-configuring bus* and a bus master and a plurality of 4 interfaces interconnecting the instruments to the selfconfiguring bus; 5 the instruments being operatively connected via interfaces on the *self-configuring bus* to said bus master, 6 7 the bus master monitoring communication on the bus for correct execution; 8 the bus master configuring the bus automatically *whenever* 9 a said instrument is either newly connected or is disconnected from said bus without interruption of the operation of the system. 10 11 The '286 patent provides a computer science solution relevant to implementing a system 12 like the one disclosed in the '688 patent. The invention "is based on the problem of improving a 13 system for centrally monitoring and/or controlling at least one unit for endoscopy, and 14 specifically for minimally invasive surgery" (cols. 1:66–2:2). The invention does so "in such a 15 way that a large number of (different or identical) units can be centrally controlled at a 16 comparatively low expenditure" and "with the replacement of failed units or the connection of 17 new units being possible during the ongoing operation without any problems and particularly 18 without interference with the other units" (col. 2:3–9). 19 A. "self-configuring bus" 20 The parties dispute the term "self-configuring bus." The parties' proposed constructions 21 are shown below. 22 **KSEA'S PROPOSED STRYKER'S PROPOSED** 23 **CONSTRUCTION CONSTRUCTION** 24 "a communication network in which at "a communication medium that can be least two connected devices shared by more than two devices and 25 automatically communicate with each that automatically selects which other" device on the bus will serve as the bus 26 master" 27 The parties dispute whether a bus is a "communication network" or a "communication medium," 28 but KSEA abandons this dispute in its responsive brief, conceding that "[t]he term 'bus' . . . can

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be understood to mean a medium . . ." (KSEA Resp. Br. 12). The remaining disputes concern 2 how many devices must be connected to the bus and what constitutes self-configuration.

Regarding the number of devices, the claim language refers to "a plurality of interfaces interconnecting the instruments to the self-configuring bus" (col. 7:10-12). The instruments, in turn, are "a plurality of instruments for endoscopy" (col. 7:8–9). Thus, the bus claimed by the patent interconnects "a plurality" of devices. That means more than one.

Stryker argues that, instead, the bus must be capable of being shared by more than two devices. Stryker's arguments are unpersuasive. *First*, Stryker argues that the claim requires a bus master and a plurality of instruments, which would add up to at least three devices (Stryker Br. 22). This argument fails because the bus master could be one of the plurality of instruments. The claim does not enumerate the bus master and the plurality of instruments as separate, mutually-exclusive elements, and the specification explains that any of a variety of devices may serve as bus master in addition to performing its own function (cols. 3:15–32, 6:9–22). A dedicated bus master is not required.

15 Second, Stryker cites the specification for support, arguing that "[b]y disparaging systems 16 with a number of point-to-point serial or parallel 'computer interfaces,' the '286 patent 17 distinguishes the claimed 'bus' from a collection of one or more point-to-point connections where 18 the various connections are not shared by more than two devices — i.e., where data sent over one 19 point-to-point link is not necessarily sent over any other point-to-point link" (Stryker Br. 21) 20 (citation omitted). This argument is too attenuated to overcome the use of the word "plurality" in 21 the claim itself. The specification language Stryker cites merely states that "[t]he use of serial or 22 parallel interfaces for controlling the devises presents the disadvantage that the number of the 23 total units which can be controlled by the master computer is restricted by the number of 24 computer interfaces" (col. 1:35–38). This observation about the prior art does not indicate that 25 the claims are limited to buses that can connect more than two devices.

26 *Third*, Stryker cites the prosecution history of the '286 patent, arguing that in 27 distinguishing prior art, "the Applicant also disclaimed any interpretation of the claims that 28 allows the 'bus' to be either: (1) a single, point-to-point connection between two devices; or

(2) multiple point-to-point connections between various devices where those multiple connections are not shared by all of those devices" (Stryker Br. 21). This, too, is a stretch. The portion of the prosecution history that Stryker cites for support enumerates several respects in which the claimed invention differs from the prior art reference. The number of devices connected by the bus is not one of them (Bateman Exh. L at 8). There was no clear disavowal of claim scope limiting the claimed bus to being capable of connecting more than two devices. *See Teleflex, Inc. v. Ficosa N. Am. Corp.*, 299 F.3d 1313, 1327 (Fed. Cir. 2002).

Turning to the question of self-configuration, neither the claim language nor the specification provides much elaboration. The most that can be inferred from the phrase "self-configuring bus" is that the bus configures itself if some way, such that configuration by an external operator that otherwise would be necessary is not required. The '286 patent uses the term of art "configure" without providing any definition, so further construing that term of the disputed phrase would require a resort to extrinsic evidence.

Stryker argues that the claimed self-configuration is the process by which the bus selects which device on the bus will serve as the bus master. Stryker reasons that this process is the only process disclosed in the patent that would constitute self-configuration by the bus (Stryker Br. 24–25). The problem with Stryker's argument is that claim 1 does not disclose this process as part of the invention. Selection of the bus master is disclosed in dependent claims, but it is not required by the independent claim. The specification further explains that the bus-master selection process becomes relevant only when "more than one unit suitable for use as BUS master is connected to the bus," and even then it is only "preferable" — not required — that provisions "be made for arbitration or assignment of priorities so as to ensure that only one BUS master assumes the active BUS master function" (col. 3:28–32). This feature may not be read into the independent claim simply because it is included in a preferred embodiment.

Because of the dearth of intrinsic evidence as to the meaning of "configure," the phrase "a
self-configuring bus" shall be construed simply to mean "a communication medium for
connecting multiple devices that configures itself if some way, such that configuration by an

1	external operator that otherwise would be necessary is not required." <sup>5</sup> This construction		
2	recognizes and allows for the fact that the bus is configured automatically by the bus master		
3	whenever an instrument is either newly connected or is disconnected from the bus, as required by		
4	the claim language.		
5	B. "whenever a said instrument is either newly connected or is		
6	disconnected from said bus without interruption of the operation of the system"		
7	The parties dispute the phrase "whenever a said instrument is either newly connected or is		
8	disconnected from said bus without interruption of the operation of the system." The parties		
9	interpret the phrase differently, but only Stryker seeks a construction. The parties' proposed		
10	constructions are shown below:		
11	KSEA'S PROPOSED STRYKER'S PROPOSED		
12	CONSTRUCTION CONSTRUCTION		
13	"whenever an instrument is either newly connected or is disconnected from the hug without integration of the		
14	bus without interruption of the operation of the system" (no construction)bus are either newly connected to or disconnected from the bus without interruption of the operation of the		
15	system, where the bus is a communication medium that can be		
16	shared by more than two devices"		
17	The construction of this phrase is relevant to the parties' infringement and invalidity arguments.		
18	Stryker's proposed construction of incorporates its proposed construction of "self-configuring		
19	bus." Because the phrase "self-configuring bus" already was construed, Stryker's arguments on		
20	that portion of this phrase need not be addressed again here. Thus, the only dispute to be settled		
21	is whether an instrument connected to the bus and the interface that directly links it to the bus		
22	must be unplugged or plugged back in together, as a single unit.		
23	The claim language describes instruments that are connected to the bus through interfaces.		
24	Thus, the connection of an instrument to the bus could be disrupted by breaking the bus/interface		
25			
26	<sup>5</sup> The Tennessee court construed "self-configuring bus" as a "shared communication medium		
27	connecting multiple stations ( <i>e.g.</i> , instruments) that has functionality for (i) automatically, based on arbitration provisions or assigned priorities, determining which one of the stations will serve as the bus master, and (ii)		
28	automatically detecting the connection or disconnection of stations to or from the bus" (Dkt. No. 222-1 at 31). This order agrees that a self-configuring bus is a communication medium for connecting multiple devices, but it does not attribute any such specific functionality to the bus.		

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joint, or the interface/instrument joint, or both. This observation suggests that the phrase 2 "whenever a said instrument is either newly connected or is disconnected from said bus" would 3 encompass disconnection and re-connection at either of those joints.

Stryker construes the phrase to refer only to disconnection and re-connection at the interface/bus joint. Stryker's arguments are not persuasive. First, Stryker notes that "only the 'interface' directly connects to the bus" and infers from that fact that "claim 1 must be referring to connecting or disconnecting an instrument's interface when it refers to the connection or disconnection of an 'instrument' from the bus" (Stryker Br. 18). The foregoing analysis of the claim language refutes this argument.

Second, Stryker argues that the specification supports its construction because "[e]very embodiment shown in the '286 patent shows the interface of the instrument as being directly linked to the bus" and because "the specification disparages point-to-point 'serial or parallel interfaces' when describing the prior art" (Stryker Br. 20). As explained, the mere presence or use of an interface layer is not enough to support Stryker's construction.

15 *Third*, Stryker also relies on the prosecution history of the '286 patent, arguing that the 16 applicants distinguished prior art on the ground that it allowed adapters (which Stryker analogizes 17 to the claimed interfaces) to be connected or disconnected from a bus only when there was no bus 18 power. Based on this characterization of the applicants' revisions and remarks, Stryker concludes 19 that the claims of the '286 patent "only include systems that, in addition to meeting the other 20 claim limitations, allow the instrument and the interface that directly links the instrument to the 21 bus to be connected to or disconnected from the bus without interrupting operation of the system" 22 (Stryker Br. 19–21). Without commenting on the accuracy of Stryker's interpretation of the 23 prosecution history, this order finds Stryker's conclusion therefrom inadequate to support 24 Stryker's proposed construction. The observation that the claimed invention *allows* 25 disconnection at the interface/bus joint does not imply a *requirement* that the invention 26 accommodates disconnection only at that joint.

27 The phrase "whenever a said instrument is either newly connected or is disconnected from 28 said bus without interruption of the operation of the system" shall be construed to mean

"whenever an instrument-interface unit is newly connected or disconnected from the bus, or an instrument is newly connected or disconnected from an interface connected to the bus, without interruption of the operation of the system."<sup>6</sup>

## **CONCLUSION**

The constructions set forth above will apply in this action. The Court reserves the authority, on its own motion, to modify these constructions if further evidence warrants such a modification. Additionally, by NOON ON MAY 10, 2011, each side may file a five-page critique (double-spaced, no footnotes, and no attachments) limited to points of critical concern. This is an opportunity for the parties to focus solely on their most cogent critique, not to rehash every point made in the briefs and at the hearing.

**IT IS SO ORDERED.** 

Dated: May 3, 2011.

ED STATES DISTRICT JUDGE