

**IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF GEORGIA**

3SHAPE A/S

Plaintiff,

v.

CARESTREAM DENTAL, LLC,
DENTAL IMAGING TECHNOLOGIES
CORP., AND DENTAL IMAGING
TECHNOLOGIES CORP. d/b/a DEXIS

Defendants.

C.A. No. 1:22-cv-01829-WMR

JOINT CLAIM CONSTRUCTION CHART

Pursuant to Patent Local Rule 6.3 and the Scheduling Order in this case (D.I. 090), Plaintiff 3Shape A/S (“3Shape”) and Defendants Carestream Dental, LLC, Dental Imaging Technologies Corp., and Dental Imaging Technologies Corp. d/b/a DEXIS (collectively, “Defendants”), submit the following Joint Claim Construction Charts for U.S. Patent Nos. RE48,221, 10,695,151, 10,076,146, and 11,368,667 (collectively, the “Asserted Patents”).

Pursuant to Patent Local Rule 6.3(b)(3), the parties agree that three (3) hours would be appropriate for the claim construction hearing. The parties also jointly propose allocating one (1) hour for a technology tutorial prior to the hearing. The

parties agree that the time permitted by the Court for both the claim construction hearing and technology tutorial be divided equally between the two sides.

1. Agreed Constructions

Claim Term	Agreed Construction
“3D environment” (’221 Patent, claims 1, 19, 33)	A constellation of physical objects each having a 3D geometry in a three-dimensional space
“determined one or more points on the tooth” (’151 Patent, claim 12, 13)	Determined for one or more points on the tooth
“texture information” (’151 Patent, claims 7 and 14-17)	Information comprising at least one of tooth color or surface roughness

2. U.S. Patent No. RE48,221

Claim Term	Plaintiff’s Proposed Construction	Plaintiff’s Identification of Intrinsic and Extrinsic Evidence	Defendants’ Proposed Construction	Defendants’ Identification of Intrinsic and Extrinsic Evidence
“physical 3D environment” (claims 1, 19, 33)	Plain and ordinary meaning.	1:55-63 2:8-12 4:4-9 8:52-60 9:49-58 13:23-29 16:6-10 FIGS. 1 and 4	Indefinite	1:55-63; 1:64-67; 2:08-13; 4:04-10; 8:52-60; 9:49-58; 12:31-34; 13:22-29; 15:46-55; and Expert Declaration of Dr. Bergeron

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence
		U.S. Patent App. No. 13/991,513 prosecution history, Amendment filed Dec. 9, 2015. Expert Declaration of Dr. Xiong.		
“wherein the at least one motion sensor is a sensor that directly detects motion” (claims 1, 19)	Plain and ordinary meaning.	3:21-23 3:26-28 3:50-58 4:17-20 4:43-47 5:57-60 6:64-7:10 7:16-20 7:53-56 9:6-7 10:28-29 10:62-11:4 FIGS. 2a-2b	Indefinite	3:17-23; 4:43-46; 5:57-60; 6:64-7:10; 7:53-60; 8:07-10; 10:18-20; 10:62-11:04; 14:10-16; 14:20-22; July 30, 2019 Preliminary Amendment; October 28, 2019 Second Preliminary Amendment; and Expert Declaration of Dr. Bergeron

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence
		PTAB-IPR2018-00197-5, Patent Owner's Preliminary Response to the Petition for IPR at 32-37, 42 PTAB-IPR2018-00197-11, Patent Owner's Response to the Petition IPR at 14-31 U.S. Patent App. No. 16/526,281 reissue prosecution history, Preliminary Amendment filed July 30, 2019 and Second Preliminary Amendment filed Oct. 28, 2019.		

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence
		Expert Declaration of Dr. Xiong		
“the at least one display is adapted for visually representing the physical 3D environment” (claims 1, 19, 33)	Plain and ordinary meaning.	2:13-19 4:10-11 5:4-12 5:32-38 5:45-50 6:5-18 6:24-25 7:38-40 8:8-10 8:11-14 8:15-17 8:18-20 8:29-42 8:52-60 9:32-36 10:1-5 10:8-12 11:26-36 11:58-12:4 12:27-42 FIGS. 1-4	Indefinite	1:55-63; 13:22-29; and Expert Declaration of Dr. Bergeron

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence
		Expert Declaration of Dr. Xiong		
“sensor fusion” (claim 22)	Plain and ordinary meaning.	7:16-21 14:14-16 Expert Declaration of Dr. Xiong	Indefinite	7:16-21; 14:14-16; July 30, 2019 Preliminary Amendment; October 28, 2019 Second Preliminary Amendment; and Expert Declaration of Dr. Bergeron
“the at least one motion sensor and/or the user-interface element are utilized in a workflow” (claim 28)	the system is configured to utilize the at least one motion sensor and/or the user-interface element in a sequence of tasks implemented in software	7:36-60 11:4 12:26-44 FIG. 4 Expert Declaration of Dr. Xiong	Indefinite	7:36-52; 7:53-60; July 30, 2019 Preliminary Amendment; October 28, 2019 Second Preliminary Amendment; and Expert Declaration of Dr. Bergeron

3. U.S. Patent No. 10,695,151

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence
"shape data" (claims 1, 13, 14)	Plain and ordinary meaning.	Abstract 2:23-25 2:35-36 2:46-50 2:64-3:2 3:13-21 8:47-51 8:58-62 9:4-10 9:53-55 10:29-31 10:45-48 11:38-59 12:51-53 14:37-39 15:50-16:51 FIGS. 1-8D Expert Declaration of Dr. Xiong and/or Dr. Shah	Data expressing the shape of the tooth	2:32-36; 2:46-50; 9:01-07; 11:57-59; 12:48-53; Expert Declaration of Dr. Schonfeld

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence
“texture data” (claims 1-3, 7, 10, 13-15)	Plain and ordinary meaning.	2:32-34 2:39-50 3:9-12 3:17-21 4:20-22 4:27-45 4:51-56 4:59-6:4 7:34-38 8:15-17 8:24-32 8:50-51 8:58-62 11:51-62 12:48-58 14:10-16 14:42-44 15:50-17:17 FIGS. 1-9B Expert Declaration of Dr. Xiong and/or Dr. Shah	Data expressing the texture of the tooth	2:32-36; 2:46-50; 8:52-62; 9:01-07; Expert Declaration of Dr. Schonfeld

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence
		Edward Angel, Dave Shreiner, Interactive Computer Graphics (6th Ed.) Computer Graphics Principles and Practice (3rd Ed.)		
"deriving a certainty score" (claim 1)	determining an accuracy value based on the tooth shade value, the texture data, and/or texture information	6:25-27 6:28-33 6:37-48 6:52-60 6:66-7:38 7:58-63 8:16-23 9:17-19 12:63-67 13:32-50 13:66-14:9 14:16-34 18:33-19:11 FIGS. 1-9	Plain and ordinary meaning.	6:25-27; 9:17-19; 6:28-33; 6:52-56; 6:66-7:06; 18:27-32; 18:33-38; Expert Declaration of Dr. Schonfeld

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence
		Expert Declaration of Dr. Xiong and/or Dr. Shah		
“the certainty measure” (claim 7)	measure of the certainty score	6:66-7:38 13:32-50 13:66-14:9 14:16-34 18:33-19:11 FIGS. 2-4 Expert Declaration of Dr. Xiong and/or Dr. Shah	Indefinite	Expert Declaration of Dr. Schonfeld
“the sub-scan texture information” (claim 7)	texture information (e.g., color information or surface roughness information) of a sub-scan	2:37-38 3:4-8 3:9-12 4:27-32 4:35-40 4:41-45 12:41-53 15:5-27 15:50-17:17 16:44-51 20:48-50	Indefinite	Expert Declaration of Dr. Schonfeld

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence
		FIGS. 1-9B Expert Declaration of Dr. Xiong and/or Dr. Shah		
"the amount of texture information" (claim 7)	an amount of texture information	7:31-33 7:34-38 FIGS. 1-9B Expert Declaration of Dr. Xiong and/or Dr. Shah	Indefinite	Expert Declaration of Dr. Schonfeld
"the texture information" (claim 11)	the texture data	2:32-34 2:39-45 2:46-50 3:9-12 4:20-22 4:33-40 4:41-45 4:51-56 5:14-19 7:9-13 7:34-38	Indefinite	2:36-38; 4:20-61; 16:33-51; Claims 7, 14-17; Expert Declaration of Dr. Schonfeld

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence
		8:24-32 8:15-17 8:26-32 8:50-51 8:58-62 9:50-60 11:51-67 12:48-51 12:54-58 14:10-15 14:42-47 20:3-7 20:48-51 FIGS. 1-9B Expert Declaration of Dr. Xiong and/or Dr. Shah		
“wherein the tooth shade profile comprises a one or more tooth shade regions on the tooth surface where an	Plain and ordinary meaning.	2:57-3:2 3:22-59 3:60-4:19 7:28-30 12:63-67 13:1-32	Indefinite	Expert Declaration of Dr. Schonfeld

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence
average tooth shade is derived for each region from tooth shade values determined for a number of points within the region” (claim 13)		13:51-66 14:16-34 20:55-59 FIGS. 2-4 Expert Declaration of Dr. Xiong and/or Dr. Shah		
“geometry information” (claim 14)	Plain and ordinary meaning.	2:46-56 3:3-8 8:42-46 8:47-51 8:52-57 10:43-48 11:31-37 15:5-17:11 20:61-67 FIGS. 1-9B Expert Declaration of Dr. Xiong and/or Dr. Shah	Information concerning the geometry of the tooth	11:31-37; Expert Declaration of Dr. Schonfeld

4. U.S. Patent No. 11,076,146

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence
“a pattern generator configured to generate, using a light source, a probe light with a plurality of configurations in the form of a time-varying illumination pattern” (claim 1)	Plain and ordinary meaning. <i>If subject to 35 U.S.C. § 112(6):</i> Function: “generate, using a light source, a probe light with a plurality of configurations in the form of a time-varying illumination pattern” Structure: “a segmented LED with control electronics” (’146 patent at 8:10-36, FIG. 3b, 28:14-23)	3:9-14 3:25-46 3:59-4:9 7:65-67 8:9-38 8:38-57 9:25-37 10:33-37 10:57-11:7 12:1-5 12:29-50 13:14-38 13:56-14:41 21:6-13 21:36-50 28:4-23 29:47-30:6 33:46-36:48 37:56-59 FIGS. 2, 3a, 3b, and 8-12	Subject to 35 U.S.C. § 112(6) Function: “generate, using a light source, a probe light with a plurality of configurations in the form of a time-varying illumination pattern” Structure: “a transparent wheel with an opaque mask in the form of spokes pointing radially from the wheel center and rotated with a motor” (’146 patent at 28:5-13, FIG. 3a, 21:6-13)	21:06-13; 28:05-13; 8:38-57; 4:59-65; Fig. 3A Expert Declaration of Dr. Schonfeld

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence
	“at least one translucent and/or transparent pattern element with a motor” (’146 patent at 8:38-57) “a transparent wheel with an opaque mask in the form of spokes pointing radially from the wheel center and rotated with a motor” (’146 patent at 8:42-46, 13:14-16, 28:5-13, FIG. 3A) “a glass plate with an opaque mask with a motor” (’146 patent at 8:46-57)	Expert Declaration of Dr. Xiong and/or Dr. Vakoc		

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence
	“a Ronchi ruling with a motor” (’146 patent at 13:29-31.) “an array of LEDs with a controller” (’146 patent at 13:34-36, FIG. 3B.) “a LCD or DLP based projector” (’146 patent at 13:37-38)			
“time-varying illumination pattern” (claims 1, 13, 15, 21, 27, 29)	Plain and ordinary meaning.	3:9-14 3:59-4:4 4:59-67 5:1-8 8:10-57 10:57-11:7 12:29-50 13:14-38 14:7-41 15:15-24 17:16-33	A pattern that varies in time, i.e., the embedded spatial structure varies in time	3:11-14; 4:59-65; 8:13-18; 8:38-57; 38:29-33; 38:37-41; 40:11-17; 40:21-24; Expert Declaration of Dr. Schonfeld

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence
		21:36-39 27:59-28:27 29:47-30:6 33:46-36:48 FIGS. 2, 3a, 3b, and 8-12 Expert Declaration of Dr. Xiong and/or Dr. Vakoc		
“a tip configured to be inserted into the oral cavity” (claim 1)	Plain and ordinary meaning.	5:51-55 19:14-33 20:30-35 27:16-27 27:44-45 31:46-32:25 36:49-60 FIGS. 1, 4-6, and 17 Expert Declaration of Dr. Xiong, Dr. Vakoc, and/or Dr. Shah	Indefinite	5:51-55; 19:12-20; 23:04-09; 27:22-28; 34:25-31; Expert Declaration of Dr. Schonfeld

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence
“wherein the intraoral scanner is wireless” (claim 1)	Plain and ordinary meaning.	8:59-9:23 36:50-60 38:10-15 38:16-22 38:23-25 39:21-26 39:27-40:5 40:6-8 FIG. 17 Microsoft Computer Dictionary, Fifth Ed., 2002 at 572 (“wireless <i>adj.</i> Of, pertaining to, or characteristic of communications that take place without the use of interconnecting wires or cables, such as by radio, microwave, or infrared light”).	Indefinite	9:16-23; 38:10-25; 39:21-40:8; Expert Declaration of Dr. Schonfeld

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence
		Expert Declaration of Dr. Xiong, Dr. Vakoc, and/or Dr. Shah		
“optical path” (claims 1, 21)	Plain and ordinary meaning.	3:25-33 5:32-39 6:45-49 8:50-53 26:64-27:7 27:20-55 33:46-36:48 FIGS. 1, 2, and 4-11 Expert Declaration of Dr. Xiong, Dr. Vakoc, and/or Dr. Shah	The path of the light from the light source to the object and back to the camera	27:48-55; 5:32-39; Expert Declaration of Dr. Schonfeld
“high-speed camera” (claims 1, 16, 22)	Plain and ordinary meaning.	2:46-47 5:59-62 8:1-8 10:33-44 11:15-25 17:53-60	A camera accommodating multiple A/D converters per line of pixels	8:04-08; Expert Declaration of Dr. Schonfeld.

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence
		38:42-45 Boyd Fowler, Abbas El Gamal & David Yang, Techniques for Pixel Level Analog to Digital Conversion (1998) Phantom Flex, Data Sheet, Vision Research (2010) Fastcam BC2 HD, High Speed Camera System for Broadcast Application, Photron HiSpec 1, Innovative Low-Light High-Speed Camera, Fastec Imaging (2012)		

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence
		Expert Declaration of Dr. Xiong and/or Dr. Vakoc		
“switching on and off the at least three monochromatic light sources” (claim 6)	switching on and off one or more of the at least three monochromatic light sources	20:36-43 20:47-57 21:14-22 32:17-25 Expert Declaration of Dr. Xiong and/or Dr. Vakoc	Plain and ordinary meaning.	21:25-50; Expert Declaration of Dr. Schonfeld
“wherein the probe light is directed towards the object in a direction substantially parallel with the longitudinal axis of the tip” (claim 8)	Plain and ordinary meaning.	5:40-50 19:12-33 22:41-47 23:14-29 25:1-7 27:48-55 Expert Declaration of Dr. Xiong and/or Dr. Vakoc	Indefinite	5:40-42; 19:12-14; 23:16-29; Expert Declaration of Dr. Schonfeld.
“data for the 3D geometry”	the data for the 3D geometry.	2:43-45 4:28-35 25:1-26 38:10-15	Indefinite	38:10-22; 38:26-28; 39:21-40:05; Expert

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence
(claims 12, 24)		Expert Declaration of Dr. Xiong and/or Dr. Vakoc		Declaration of Dr. Schonfeld
“a temporal correlation measure is computed with sensor signals, in the at least one camera” (claims 13, 27)	a temporal correlation measure is computed from sensor signals recorded by the at least one camera	10:33-48 11:15-18 13:40-55 15:16-34 28:29-37 Expert Declaration of Dr. Xiong and/or Dr. Vakoc	Plain and ordinary meaning	5:63-67; 9:38-57; 10:33-36; 10:54-56; 11:15-25; 28:29-37; 28:38-40; 38:37-41; 40:21-24; Expert Declaration of Dr. Schonfeld
“the data for the 3D geometry” (claim 21)	data for the 3D geometry	2:43-45 4:28-35 25:1-26 38:10-15 Expert Declaration of Dr. Xiong and/or Dr. Vakoc	Indefinite	39:17; 39:21-40:8 Expert Declaration of Dr. Schonfeld

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence
“a tip of intraoral scanner inserted into the oral cavity” (claim 21)	Plain and ordinary meaning.	5:51-55 19:14-33 20:30-35 27:16-28 27:44-45 31:46-32:25 36:49-60 FIG. 17 Expert Declaration of Dr. Xiong, Dr. Vakoc, and/or Dr. Shah	Indefinite	5:51-55; 19:12-20; 23:04-09; 27:22-28; 34:25-31; Expert Declaration of Dr. Schonfeld

5. U.S. Patent No. 11,368,667

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence ¹
“a pattern generator configured to generate, using a light source, a probe light with a plurality of configurations in the form of a time-varying illumination pattern” (claims 1, 14, 26)	Plain and ordinary meaning. <i>If subject to 35 U.S.C. § 112(6):</i> Function: “generate, using a light source, a probe light with a plurality of configurations in the form of a time-varying illumination pattern” Structure: “a segmented LED with control electronics” (’667	3:12-17 3:28-49 3:62-4:7 4:64-67 8:1-3 8:11-40 8:40-59 9:27-40 10:28-33 10:53-11:3 11:64-12:1 12:26-47 13:14-38 13:56-14:41 21:34-48 28:14-38 29:46-30:6 33:49-36:51 FIGS. 2, 3a, 3b, and 8-12	Subject to 35 U.S.C. § 112(6) Function: “generate, using a light source, a probe light with a plurality of configurations in the form of a time-varying illumination pattern” Structure: “a transparent wheel with an opaque mask in the form of spokes pointing radially from the wheel center and rotated with a motor” (’146 patent	21:06-13; 28:05-13; 8:38-57; 4:59-65; Fig. 3A ; Expert Declaration of Dr. Schonfeld

¹ Defendants’ patent citations are to the ’146 patent unless specified otherwise.

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence ¹
	patent at 8:11-38, FIG. 3b, 28:14-23) “at least one translucent and/or transparent pattern element with a motor” ('667 patent at 8:40-59) “a transparent wheel with an opaque mask in the form of spokes pointing radially from the wheel center and rotated with a motor” ('667 patent at 8:45-48, 13:14-16, 28:4-12, FIG. 3A) “a glass plate with an opaque mask with	Expert Declaration of Dr. Xiong and/or Dr. Vakoc	at 28:5-13, FIG. 3a, 21:6-13)	

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence¹
	a motor” (’667 patent at 8:48-60) “a Ronchi ruling with a motor” (’667 patent at 13:28-31.) “an array of LEDs with a controller” (’667 patent at 13:34-36, FIG. 3B.) “a LCD or DLP based projector” (’667 patent at 13:37-38)			
“time-varying illumination pattern” (claims 1, 14, 26)	Plain and ordinary meaning.	3:10-17 3:62-4:7 4:61-67 5:3-10 8:11-59 10:53-11:3 12:26-48 13:14-38	A pattern that varies in time, i.e., the embedded spatial structure varies in time	3:11-14; 4:59-65; 8:13-18; 8:38-57; Expert Declaration of Dr. Schonfeld

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence ¹
		14:7-41 15:15-24 17:16-33 21:34-37 27:58-28:27 29:46-30:6 33:49-36:51 FIGS. 2, 3a, 3b, and 8-12 Expert Declaration of Dr. Xiong and/or Dr. Vakoc		
“a tip configured to be inserted into the oral cavity” (claims 1, 14, 26)	Plain and ordinary meaning.	5:51-55 19:13-31 20:28-33 27:14-26 27:43-44 31:50-32:29 36:52-63 FIGS. 1, 4, 5, 6, and 17	Indefinite	5:51-55; 19:12-20; 23:04-09; 27:22-28; 34:25-31; Expert Declaration of Dr. Schonfeld.

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence¹
		Expert Declaration of Dr. Xiong and/or Dr. Shah		
“optical path” (claims 1, 14, 26)	Plain and ordinary meaning.	3:28-36 5:34-41 6:47-51 8:52-55 26:62-27:5 27:19-54 33:50-36:51 FIGS. 1, 2, and 4-11 Expert Declaration of Dr. Xiong and/or Dr. Vakoc	The path of the light from the light source to the object and back to the camera	27:48-55; 5:32-39; Expert Declaration of Dr. Schonfeld.
“wherein the intraoral scanner is wireless” (claims 1, 14, 29)	Plain and ordinary meaning.	8:61-9:26 36:53-63 38:7-22 38:56-39:12 40:37-45 Fig. 17 Microsoft Computer Dictionary, Fifth	Indefinite	9:16-23; 38:7-22 ('667 Patent); 40:37-45 ('667 Patent); Expert Declaration of Dr. Schonfeld.

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence ¹
		Ed., 2002 at 572 (“wireless <i>adj.</i> Of, pertaining to, or characteristic of communications that take place without the use of interconnecting wires or cables, such as by radio, microwave, or infrared light”). Expert Declaration of Dr. Xiong and/or Dr. Vakoc		
“switching on and off the at least three monochromatic light sources” (claims 3, 20)	switching on and off one or more of the at least three monochromatic light sources	20:34-40 20:45-55 21:12-20 32:14-20 FIG. 6	Plain and ordinary meaning.	21:25-50; Expert Declaration of Dr. Schonfeld; February 21, 2022 Preliminary Amendment and Claims.

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence¹
		Expert Declaration of Dr. Xiong and/or Dr. Vakoc		
“wherein the optical system is [further] configured to direct the probe light towards the object in a direction substantially parallel with the longitudinal axis of the tip” (claims 5, 22)	Plain and ordinary meaning.	5:42-52 19:10-31 22:39-45 23:12-27 24:65-25:1 27:47-54 Expert Declaration of Dr. Xiong and/or Dr. Vakoc	Indefinite	5:40-42; 19:12-14; 23:16-29; Expert Declaration of Dr. Schonfeld; February 21, 2022 Preliminary Amendment and Claims.
“data for the 3D geometry” (claims 8, 15)	the data for the 3D geometry	2:46-48 4:30-37 24:65-25:24 25:32-26:8 38:7-22	Indefinite	38:7-26 ('667 Patent); 39:7-9 ('667 Patent); 39:14-16 ('667 Patent); 40:37-45 ('667 Patent); Expert Declaration of Dr. Schonfeld; February 21, 2022 Preliminary

Claim Term	Plaintiff's Proposed Construction	Plaintiff's Identification of Intrinsic and Extrinsic Evidence	Defendants' Proposed Construction	Defendants' Identification of Intrinsic and Extrinsic Evidence¹
		Expert Declaration of Dr. Xiong and/or Dr. Vakoc		Amendment and Claims.

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CERTIFICATE OF SERVICE

I hereby certify on this 2nd day of December, 2022, the foregoing was electronically filed with the Clerk of the Court using the CM/ECF System, which will send a notification of such filing to all counsel of record.

/s/ Puja Patel Lea

Puja Patel Lea