IN THE UNITED STATES DISTRICT COURT FOR THE WESTERN DISTRICT OF TEXAS WACO DIVISION

PARKERVISION, INC.,

Plaintiff,

v.

TCL INDUSTRIES HOLDINGS CO., LTD., TCL ELECTRONICS HOLDINGS LTD., SHENZHEN TCL NEW TECHNOLOGY CO., LTD., TCL KING ELECTRICAL APPLIANCES (HUIZHOU) CO., LTD., TCL MOKA INT'L LTD., and TCL MOKA MANUFACTURING S.A. DE C.V.,

HISENSE CO., LTD. and HISENSE VISUAL TECHNOLOGY CO., LTD. (F/K/A QINGDAO HISENSE ELECTRONICS CO.), LTD. and HISENSE ELECTRIC CO., LTD.

Defendants.

Case No. 6:20-cv-00945-ADA

Case No. 6:20-cv-00870-ADA

JURY TRIAL DEMANDED

PARKERVISION, INC.'S SUR-REPLY CLAIM CONSTRUCTION BRIEF



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I.	"Low impedance load" is <i>not</i> indefinite and should be given its plain and ordinary meaning ('736 patent, claims 26, 27; '673 patent, claim 5)
II.	"Said energy discharged from said capacitor provides sufficient power to drive the low impedance load" is <i>not</i> indefinite and should be given its plain and ordinary meaning ('673 patent, claim 5)
III.	The Court has twice considered the construction of the "storage" terms and it should continue to adopt its construction here.
IV.	"Voltage of the input modulated carrier signal is not reproduced or approximated at the capacitor during the apertures or outside of the apertures" is <i>not</i> indefinite and should be given its plain and ordinary meaning ('673 patent, claim 2)
V.	Defendants' arguments as to "other indefinite terms" are without merit
VI.	Defendants' arguments with respect to nonce words and means-plus-function claims should be rejected
VII.	The Court should stand behind its previous constructions and reject Defendants' supposed "plain and ordinary" constructions
VIII.	Contrary to their assertion, Defendants' construction of "harmonic" does <i>not</i> follow the patent's disclosures and lexicography.
IX.	"[Wherein said storage elements comprise] a capacitor that reduces a DC offset voltage in said first-down converted signal and second down converted signal."
X.	"Sampling aperture."
ΧI	"A down-converted signal being generated from said sampled energy"



TABLE OF AUTHORITIES

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Cases	
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I. "Low impedance load" is *not* indefinite and should be given its plain and ordinary meaning ('736 patent, claims 26, 27; '673 patent, claim 5).

The term "low impedance load" is not indefinite. Defendants are wrong when they argue that the absence of a specific numerical boundary in the specification between low and high impedance loads constitutes a lack of construability, so as to render the term "low impedance load" indefinite. Defendants' Reply Claim Construction Brief ("Defs. Reply Br.") at 1-2. That is simply not the law. The law requires only that the specification provides *guidance* (and *objective bounds*) to a skilled person (who can impart his/her own knowledge of circuits) as to what constitutes a low impedance load. *See Nautilus, Inc. v. Biosig Instruments, Inc.,* 572 U.S. 898, 910 (2014). The degree may be determined by looking to the functionality obtained by the invention. *See Medrad, Inc. v. MRI Devices Corp.,* 401 F.3d 1313, 1320 (Fed. Cir. 2005).

Indeed, on several occasions, district courts have held the claim term "low" – the same term that is at issue here – not to be indefinite. *See Freeny v. Apple Inc.*, 2014 U.S. Dist. LEXIS 120446, at *15-*19 (E.D. Tex. Aug. 28, 2014) (finding "low power communication signals" not indefinite); *CardioFocus, Inc. v. Cardiogenesis Corp.*, 827 F. Supp. 2d 36, 43-44 (D. Mass. 2011) (finding "low hydroxyl ion content" not indefinite); *Input/Output, Inc. v. Sercel, Inc.*, No. 5:06CV236, 2007 U.S. Dist. LEXIS 98316, 2007 WL 6196070, at *30 (E.D. Tex. Dec. 19, 2007) (finding "low mechanical spring constant" not indefinite).

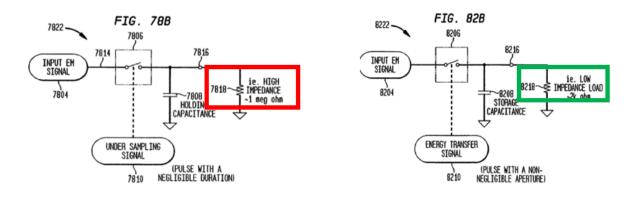
And here, the patents are not silent on what constitutes a low impedance load.

Importantly, the specification provides an express standard against which to measure "low": the

¹ The Supreme Court cites with approval *Eibel Process Co. v. Minn. & Ontario Paper Co.*, 261 U.S. 45, 58, 65-66 (1923), where the Court upheld claim language requiring a wire to be placed at a "high" or "substantial" elevation because "readers . . . skilled in the art of paper making and versed in the use of the . . . machine" would have "no difficulty . . . in determining . . . the substantial [elevation] needed" for the machine to operate as specified. *Nautilus*, 572 U.S. at 910 n.5.



"low impedance load" must be low enough to allow for "non-negligible amounts of energy" to be transferred and become part of the down-converted signal in an energy transfer system. *See*, *e.g.*, '673 patent, 66:29-36; 70:40-49; 100:28-31. In fact, Defendants concede that "non-negligible amounts of energy" is not indefinite because Defendants specifically include the term "non-negligible amounts of energy" in its construction of storage module/element/device. As such, the patent provides a standard by which a "low impedance load" can be determined.



In particular, the specification discloses two types of systems – (1) energy transfer (energy sampling) system and (2) sample-and-hold (voltage sampling) system. An energy transfer system uses a low impedance load, and a sample-and-hold system uses a high impedance load. *See* '673 patent, 70:34-50. A low impedance load has an impedance value that allows for



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