

IN THE UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF DELAWARE

CYWEE GROUP LTD.,

Plaintiff,

v.

MOTOROLA MOBILITY LLC,

Defendant.

Civil Action No. 17-780-RGA

MEMORANDUM OPINION

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ANDREWS, U.S. DISTRICT JUDGE:

Presently before the Court is the issue of claim construction of multiple terms in U.S. Patent Nos. 8,441,438 (“the ’438 patent”) and 8,552,978 (“the ’978 patent”). The Court has considered the Parties’ Joint Claim Construction Brief. (D.I. 51). The Court heard oral argument on December 14, 2018. (Hr’g Trans.).

I. BACKGROUND

On June 16, 2017, CyWee Group, Ltd. (“Plaintiff”) filed a patent infringement action against Motorola Mobility LLC (“Defendant”). (D.I. 1). The patents-in-suit are U.S. Patent Nos. 8,441,438 (“the ’438 patent”) and 8,552,978 (“the ’978 patent”). The patents-in-suit concern an apparatus and methods capable of detecting, measuring, and calculating the movements and rotations of the axis using either a six-axis (the ’438 patent) or nine-axis (the ’978 patent) sensor module.

The parties dispute terms in claims 1, 3-5, and 14-19 of the ’438 patent. Claim 1 is representative and reads as follows:

1. *A three-dimensional (3D) pointing device* subject to movements and rotations in dynamic environments, comprising:

a housing associated with said movements and rotations of the *3D pointing device* in a spatial pointer reference frame;

a printed circuit board (PCB) enclosed by the housing;

a six-axis motion sensor module attached to the PCB, comprising a rotation sensor for detecting and generating a first signal set comprising angular velocities w_x , w_y , w_z associated with said movements and rotations of the *3D pointing device* in the spatial pointer reference frame, an accelerometer for detecting and generating a second signal set comprising axial accelerations, A_x , A_y , A_z associated with said movements and rotations of the *3D pointing device* in the spatial pointer reference frame; and

a processing and transmitting module, comprising a data transmitting unit electrically connected to the six-axis motion sensor module for transmitting said first and

second signal sets thereof and a computing processor for receiving and calculating said first and second signal sets from the data transmitting unit, communicating with the six-axis motion sensor module to calculate a resulting deviation comprising resultant angles in said spatial pointer reference frame by *utilizing a comparison to compare the first signal set with the second signal set* whereby said resultant angles in the spatial pointer reference frame of the resulting deviation of the six-axis motion sensor module of the *3D pointing device* are obtained under said dynamic environments, wherein the comparison utilized by the processing and transmitting module further comprises an update program to obtain an updated state based on a previous state associated with said first signal set and a measured state associated with said second signal set; wherein the measured state includes a measurement of said second signal set and a predicted measurement obtained based on the first signal set without using any derivatives of the first signal set.

('438 patent, claim 1) (disputed terms italicized).

The parties dispute terms in claims 10 and 12 of the '978 patent. Claim 10 is representative and reads as follows:

10. A method for compensating rotations of a *3D pointing device*, comprising:
 - generating an orientation output associated with an orientation of the *3D pointing device* associated with three coordinate axes of a global reference frame associated with Earth;
 - generating a first signal set comprising axial accelerations associated with movements and rotations of the *3D pointing device* in the spatial reference frame;
 - generating a second signal set associated with Earth's magnetism; *generating the orientation output based on the first signal set, the second signal set and the rotation output or based on the first signal set and the second signal set;*
 - generating a rotation output associated with a rotation of the 3d pointing device associated with three coordinate axes of a spatial reference frame associated with the *3D pointing device*; and
 - using the orientation output and the rotation output to generate a transformed output associated with a fixed reference frame associated with a display device, wherein the orientation output and the rotation output is generated by a nine-axis motion sensor module; obtaining one or more resultant deviation including a plurality of measured magnetisms Mx, My, Mz and a plurality of predicted magnetism Mx', My' and Mz' for the second signal set.*

('978 patent, claim 10) (disputed terms italicized).

II. LEGAL STANDARD

“It is a bedrock principle of patent law that the claims of a patent define the invention to which the patentee is entitled the right to exclude.” *Phillips v. AWH Corp.*, 415 F.3d 1303, 1312 (Fed. Cir. 2005) (en banc) (internal quotation marks omitted). “[T]here is no magic formula or catechism for conducting claim construction.’ Instead, the court is free to attach the appropriate weight to appropriate sources ‘in light of the statutes and policies that inform patent law.’” *SoftView LLC v. Apple Inc.*, 2013 WL 4758195, at *1 (D. Del. Sept. 4, 2013) (quoting *Phillips*, 415 F.3d at 1324) (alteration in original). When construing patent claims, a court considers the literal language of the claim, the patent specification, and the prosecution history. *Markman v. Westview Instruments, Inc.*, 52 F.3d 967, 977–80 (Fed. Cir. 1995) (en banc), *aff’d*, 517 U.S. 370 (1996). Of these sources, “the specification is always highly relevant to the claim construction analysis. Usually, it is dispositive; it is the single best guide to the meaning of a disputed term.” *Phillips*, 415 F.3d at 1315 (internal quotation marks omitted).

“[T]he words of a claim are generally given their ordinary and customary meaning. . . . [Which is] the meaning that the term would have to a person of ordinary skill in the art in question at the time of the invention, i.e., as of the effective filing date of the patent application.” *Id.* at 1312–13 (citations and internal quotation marks omitted). “[T]he ordinary meaning of a claim term is its meaning to [an] ordinary artisan after reading the entire patent.” *Id.* at 1321 (internal quotation marks omitted). “In some cases, the ordinary meaning of claim language as understood by a person of skill in the art may be readily apparent even to lay judges, and claim construction in such cases involves little more than the application of the widely accepted meaning of commonly understood words.” *Id.* at 1314.

When a court relies solely upon the intrinsic evidence—the patent claims, the specification, and the prosecution history—the court’s construction is a determination of law. *See Teva Pharm. USA, Inc. v. Sandoz, Inc.*, 135 S. Ct. 831, 841 (2015). The court may also make factual findings based upon consideration of extrinsic evidence, which “consists of all evidence external to the patent and prosecution history, including expert and inventor testimony, dictionaries, and learned treatises.” *Phillips*, 415 F.3d at 1317–19 (internal quotation marks omitted). Extrinsic evidence may assist the court in understanding the underlying technology, the meaning of terms to one skilled in the art, and how the invention works. *Id.* Extrinsic evidence, however, is less reliable and less useful in claim construction than the patent and its prosecution history. *Id.*

“A claim construction is persuasive, not because it follows a certain rule, but because it defines terms in the context of the whole patent.” *Renishaw PLC v. Marposs Societa’ per Azioni*, 158 F.3d 1243, 1250 (Fed. Cir. 1998). It follows that “a claim interpretation that would exclude the inventor’s device is rarely the correct interpretation.” *Osram GMBH v. Int’l Trade Comm’n*, 505 F.3d 1351, 1358 (Fed. Cir. 2007) (citation and internal quotation marks omitted).

III. CONSTRUCTION OF DISPUTED TERMS

1. “utilizing a comparison to compare the first signal set with the second signal set” (’438 patent, cl.1)
 - a. *Plaintiff’s proposed construction*: This term need not be construed. In the alternative only, this term may be construed as: “determining or assessing differences based on a previous state associated with the first signal set and a measured state associated with the second signal set while calculating deviation angles”
 - b. *Defendants’ proposed construction*: Indefinite
 - c. *Court’s construction*: Not indefinite / no construction necessary

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