

APPLE INC. and FITBIT, INC. Petitioner

v.

VALENCELL, INC. Patent Owner

Case IPR2017-00317¹ U.S. Patent No. 8,989,830

PETITIONER APPLE INC.'S SUR-REPLY TO
PATENT OWNER'S CONDITIONAL MOTION TO AMEND

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¹ Case IPR2017-01553 has been joined with this proceeding.



PETITIONER'S UPDATED EXHIBIT LIST

Exhibit No.	Description
1001	U.S. Patent No. 8,989,830 to LeBoeuf et al. titled "Wearable
	Light-Guiding Devices for Physiological Monitoring," issued
	March 24, 2015
1002	U.S. Patent No. 8,989,830 File History
1003	Declaration of Dr. Brian W. Anthony in Support of Petition for
	Inter Partes Review of U.S. Patent No. 8,989,830
1004	Curriculum Vitae of Dr. Brian W. Anthony
1005	Asada, H. et al. "Mobile Monitoring with Wearable
	Photoplethysmographic Biosensors," IEEE Engineering in
	Medicine and Biology Magazine, May/June 2003; pp. 28-40
1006	U.S. Patent No. 5,226,417 to Swedlow et al. titled "Apparatus
	for the Detection of Motion Transients," issued July 13, 1993
1007	U.S. Patent No. 4,830,014 to Goodman et al. titled "Sensor
1007	Having Cutaneous Conformance," issued May 16, 1989
1000	U.S. Patent No. 6,745,061 to Hicks et al. titled "Disposable
1008	Oximetry Sensor," issued June 1, 2004
	U.S. Patent No. 7,190,986 to Hannula et al. titled "Non-
1009	Adhesive Oximeter Sensor for Sensitive Skin," issued March
	13, 2007
1010	U.S. Patent No. 5,797,841 to Delonzor et al. titled "Shunt
	Barrier in Pulse Oximeter Sensor," issued August 25, 1998
1011	U.S. Patent Application Publication No. 2007/0123763 to Al-
	Ali et al. titled "Optical Sensor Including Disposable and
	Reusable Elements," published May 31, 2007
1012	Excerpt from Merriam Webster's Collegiate Dictionary,
	Eleventh Edition, 2008; p. 828
1013	Mendelson, Y. et al., "Skin Reflectance Pulse Oximetry: In
	Vivo Measurements from the Forearm and Calf," Journal of
	Clinical Monitoring, Vol. 7, No. 1, January 1991; pp. 7-12
1014	Konig, V. et al., "Reflectance Pulse Oximetry – Principles and
	Obstetric Application in the Zurich System," Journal of Clinical
	Monitoring and Computing, Vol. 14, No. 6, August 1998; pp.
	403-412



	U.S. Patent Ivo. 0,909,030
Exhibit No.	Description
1015	Mendelson, Y. <i>et al.</i> "A Wearable Reflectance Pulse Oximeter for Remote Physiological Monitoring," Proceedings of the 28 th
	IEEE EMBS Annual International Conference, New York City,
	New York, August 30-September 3, 2006; pp. 912-915
1016	U.S. Patent No. 6,608,562 to Kimura et al. titled "Vital Signal
	Detecting Apparatus," issued August 19, 2003
1017	Tremper, K. et al., "Pulse Oximetry," Medical Intelligence
	Article, Anesthesiology, Vol. 70, No. 1, January 1989; pp. 98-108
1018	Declaration of Gerard P. Grenier in support of Asada, H. <i>et al.</i>
	"Mobile Monitoring with Wearable Photoplethysmographic
	Biosensors," IEEE Engineering in Medicine and Biology
	Magazine, May/June 2003; pp. 28-40 (APL1005)
1019	Intentionally Left Blank
1020	Intentionally Left Blank
1021	Intentionally Left Blank
	Transcript of teleconference among Board and Parties held on
1022	October 13, 2017, Apple Inc. v. Valencell, Inc., Case Nos.
	IPR2017-00315, IPR2017-00317, IPR2017-00318, IPR2017-
1023-1099	00319, and IPR2017-00321.
1025-1099	Intentionally Left Blank Transcript of the Deposition of Dr. Albert Titus, November 9,
1100	2017, Apple Inc. v. Valencell, Inc., Case No. IPR2017-00318.
1101	Transcript of the Deposition of Dr. Albert Titus, November 10,
1101	2017, Apple Inc. v. Valencell, Inc., Case No. IPR2017-00317.
1102	Declaration of Dr. Brian W. Anthony in Support of Petitioner's
	Reply to Patent Owner's Response
1103	Declaration of Dr. Brian W. Anthony in Support of Petitioner's
	Opposition to Patent Owner's Motion to Amend in <i>Inter Partes</i> Review of U.S. Patent No. 8,989,830
	Hyonyoung Han et al., Development of a wearable health
1104	monitoring device with motion artifact reduced algorithm,
	International Conference on Control, Automation and Systems,
	IEEE (2007)
1105	Declaration of Gerard P Grenier in support of Hyonyoung Han
	et al., Development of a wearable health monitoring device with
	motion artifact reduced algorithm, International Conference on
	Control, Automation and Systems, IEEE (2007) (Ex. 1106)



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Exhibit No.	Description
1106	Lu X. et al., "A statistical experimental study of the injection
	molding of optical lenses," Journal of Materials Processing
	Technology, Vol. 113, 2001; pp. 189-195
1107	Ong N.S. et al., "Microlens array produced using hot embossing
	process," Microelectric Engineering, Vol. 60, 2002; pp. 365-379
1108	Rapaport et al., "Control of Blood Flow to the Extremities at
	Low Ambient Temperatures," Journal of Applied Physiology,
	Vol. 2, 1949; pp. 61-71
1109	Daanen H.A.M., "Finger cold-induced vasodilation: a review,"
	Springer-Verlag, European Journal of Applied Physiology, Vol.
	89, 2003; pp. 411-426
1110	Board Teleconference Call Transcript, December 12, 2017
1111	Declaration of Dr. Brian W. Anthony in Support of Petitioner
	Apple Inc.'s Sur-Reply to Patent Owner's Conditional Motion
	to Amend
1112	Wen H. Ko, "Review of Trends and Frontiers of MEMS,"
	Sensors and Actuators A, Vol. 136, 2007; pp. 62-67
1111	Declaration of Dr. Brian W. Anthony in Support of Petitioner Apple Inc.'s Sur-Reply to Patent Owner's Conditional Motion to Amend Wen H. Ko, "Review of Trends and Frontiers of MEMS,"



I. Introduction

Petitioner Apple Inc. opposed Valencell's ("PO") Conditional Motion to Amend ("MTA") because the MTA failed to respond to the grounds of unpatentability and the proposed substitute claims are unpatentable under 35 U.S.C. § 103. Petitioner also demonstrated that substitute claims 24 and 33 improperly broaden the scope of claims 4 and 14, and that substitute claims 26 and 35 are indefinite under 35 U.S.C. § 112. PO's Reply in Support of its Conditional MTA ("PO MTA Reply") misapplies the law and provides conclusory and contradictory arguments that fail to rebut these reasons for denying the MTA. Thus, as demonstrated in Petitioner's Opposition, the Board should deny the MTA.

II. Patent Owner Failed to Respond to Any Instituted Ground

PO contends that "Valencell's substitute claims are responsive to a ground of unpatentability because the substitute claims narrow the challenged claims being replaced." (PO MTA Reply, 3.) Simply narrowing the scope of a claim does not demonstrate that PO is responding to a ground of unpatentability. Under 37 C.F.R. § 42.121(a)(2), "[a] motion to amend may be denied where: (i) The amendment does not respond to a ground of unpatentability involved in the trial; or (ii) The amendment seeks to enlarge the scope of the claims of the patent or introduce new subject matter." By adding subsection (i), the Board's rules go beyond the statutory requirement that an amendment "may not enlarge the scope of the claims of the



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