

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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APPLE INC. and FITBIT, INC.  
Petitioners

v.

VALENCELL, INC.  
Patent Owner

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Case IPR2017-00317<sup>1</sup>  
Patent 8,989,830

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**PETITIONER APPLE INC.'S UPDATED EXHIBIT LIST**

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<sup>1</sup> IPR2017-01553 has been joined to this current proceeding.

Petitioner Apple Inc. submits herewith a copy of the transcript of a teleconference held with the Board and Parties on December 12, 2017, as Exhibit 1110. Pursuant to 37 C.F.R. § 42.63(e), Petitioner Apple Inc. hereby submits an updated exhibit list to accompany submission of Exhibit 1110.

**PETITIONER'S UPDATED EXHIBIT LIST**

<b><i>Apple (APL) Ex. No.</i></b>	<b><i>Description</i></b>
<b>1001</b>	U.S. Patent No. 8,989,830 to LeBoeuf <i>et al.</i> titled "Wearable Light-Guiding Devices for Physiological Monitoring," issued March 24, 2015
<b>1002</b>	U.S. Patent No. 8,989,830 File History
<b>1003</b>	Declaration of Dr. Brian W. Anthony in Support of Petition for <i>Inter Partes</i> Review of U.S. Patent No. 8,989,830
<b>1004</b>	<i>Curriculum Vitae</i> of Dr. Brian W. Anthony
<b>1005</b>	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
<b>1006</b>	U.S. Patent No. 5,226,417 to Swedlow <i>et al.</i> titled "Apparatus for the Detection of Motion Transients," issued July 13, 1993
<b>1007</b>	U.S. Patent No. 4,830,014 to Goodman <i>et al.</i> titled "Sensor Having Cutaneous Conformance," issued May 16, 1989
<b>1008</b>	U.S. Patent No. 6,745,061 to Hicks <i>et al.</i> titled "Disposable Oximetry Sensor," issued June 1, 2004
<b>1009</b>	U.S. Patent No. 7,190,986 to Hannula <i>et al.</i> titled "Non-Adhesive Oximeter Sensor for Sensitive Skin," issued March 13, 2007
<b>1010</b>	U.S. Patent No. 5,797,841 to Delonzor <i>et al.</i> titled "Shunt Barrier in Pulse Oximeter Sensor," issued August 25, 1998
<b>1011</b>	U.S. Patent Application Publication No. 2007/0123763 to Al-Ali <i>et al.</i> titled "Optical Sensor Including Disposable and Reusable Elements," published May 31, 2007
<b>1012</b>	Excerpt from Merriam Webster's Collegiate Dictionary, Eleventh Edition, 2008; p. 828

<b><i>Apple (APL) Ex. No.</i></b>	<b><i>Description</i></b>
<b>1013</b>	Mendelson, Y. <i>et al.</i> , “Skin Reflectance Pulse Oximetry: In Vivo Measurements from the Forearm and Calf,” <i>Journal of Clinical Monitoring</i> , Vol. 7, No. 1, January 1991; pp. 7-12
<b>1014</b>	Konig, V. <i>et al.</i> , “Reflectance Pulse Oximetry – Principles and Obstetric Application in the Zurich System,” <i>Journal of Clinical Monitoring and Computing</i> , Vol. 14, No. 6, August 1998; pp. 403-412
<b>1015</b>	Mendelson, Y. <i>et al.</i> “A Wearable Reflectance Pulse Oximeter for Remote Physiological Monitoring,” <i>Proceedings of the 28<sup>th</sup> IEEE EMBS Annual International Conference</i> , New York City, New York, August 30-September 3, 2006; pp. 912-915
<b>1016</b>	U.S. Patent No. 6,608,562 to Kimura <i>et al.</i> titled “Vital Signal Detecting Apparatus,” issued August 19, 2003
<b>1017</b>	Tremper, K. <i>et al.</i> , “Pulse Oximetry,” <i>Medical Intelligence Article, Anesthesiology</i> , Vol. 70, No. 1, January 1989; pp. 98-108
<b>1018</b>	Declaration of Gerard P. Grenier in support of Asada, H. <i>et al.</i> “Mobile Monitoring with Wearable Photoplethysmographic Biosensors,” <i>IEEE Engineering in Medicine and Biology Magazine</i> , May/June 2003; pp. 28-40 (APL1005)
<b>1019</b>	<i>Intentionally Left Blank</i>
<b>1020</b>	<i>Intentionally Left Blank</i>
<b>1021</b>	<i>Intentionally Left Blank</i>
<b>1022</b>	Transcript of teleconference among Board and Parties held on October 13, 2017, <i>Apple Inc. v. Valencell, Inc.</i> , Case Nos. IPR2017-00315, IPR2017-00317, IPR2017-00318, IPR2017-00319, and IPR2017-00321.
<b>1023-1099</b>	<i>Intentionally Left Blank</i>
<b>1100</b>	Transcript of the Deposition of Dr. Albert Titus, November 9, 2017, <i>Apple Inc. v. Valencell, Inc.</i> , Case No. IPR2017-00318.
<b>1101</b>	Transcript of the Deposition of Dr. Albert Titus, November 10, 2017, <i>Apple Inc. v. Valencell, Inc.</i> , Case No. IPR2017-00317.
<b>1102</b>	Declaration of Dr. Brian W. Anthony in Support of Petitioner’s Reply to Patent Owner’s Response
<b>1103</b>	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

<b><i>Apple (APL) Ex. No.</i></b>	<b><i>Description</i></b>
<b>1104</b>	Hyonyoung Han <i>et al.</i> , <i>Development of a wearable health monitoring device with motion artifact reduced algorithm</i> , International Conference on Control, Automation and Systems, IEEE (2007)
<b>1105</b>	Declaration of Gerard P Grenier in support of Hyonyoung Han <i>et al.</i> , <i>Development of a wearable health monitoring device with motion artifact reduced algorithm</i> , International Conference on Control, Automation and Systems, IEEE (2007) (Ex. 1106)
<b>1106</b>	Lu X. <i>et al.</i> , "A statistical experimental study of the injection molding of optical lenses," <i>Journal of Materials Processing Technology</i> , Vol. 113, 2001; pp. 189-195
<b>1107</b>	Ong N.S. <i>et al.</i> , "Microlens array produced using hot embossing process," <i>Microelectric Engineering</i> , Vol. 60, 2002; pp. 365-379
<b>1108</b>	Rapaport <i>et al.</i> , "Control of Blood Flow to the Extremities at Low Ambient Temperatures," <i>Journal of Applied Physiology</i> , Vol. 2, 1949; pp. 61-71
<b>1109</b>	Daanen H.A.M., "Finger cold-induced vasodilation: a review," Springer-Verlag, <i>European Journal of Applied Physiology</i> , Vol. 89, 2003; pp. 411-426
<b>1110</b>	Board Teleconference Call Transcript, December 12, 2017

Respectfully submitted,

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/Michael D. Specht/

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