

UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLE INC.  
Petitioner

v.

VALENCELL, INC.  
Patent Owner

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Case IPR2017-00321  
U.S. Patent No. 8,923,941

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**PETITIONER APPLE INC.'S  
REPLY TO PATENT OWNER RESPONSE**

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**PETITIONER'S UPDATED EXHIBIT LIST**

<b>Exhibit No.</b>	<b>Description</b>
<b>1001</b>	U.S. Patent No. 8,923,941 to LeBoeuf <i>et al.</i> , issued December 30, 2014
<b>1002</b>	U.S. Patent No. 8,923,941 File History
<b>1003</b>	Declaration of Dr. Majid Sarrafzadeh
<b>1004</b>	<i>Curriculum Vitae</i> of Dr. Majid Sarrafzadeh
<b>1005</b>	<i>Valencell, Inc. v. Apple Inc.</i> , Case No. 5-16-cv-00010 (E.D.N.C), Complaint filed January 4, 2016
<b>1006</b>	U.S. Patent Application Publication No. 2005/0209516 to Fraden, published September 22, 2005
<b>1007</b>	<i>Intentionally left blank</i>
<b>1008</b>	U.S. Patent Application Publication No. 2008/0081972 to Debreczeny, published April 3, 2008
<b>1009</b>	Japanese Patent Application Publication No. 2005/040261 A to Numaga <i>et al.</i> , published February 17, 2005
<b>1010</b>	Certified English-language translation of Japanese Patent Application Publication No. 2005/040261 A to Numaga <i>et al.</i> , published February 17, 2005
<b>1011</b>	U.S. Patent Application Publication No. 2003/0065269 to Vetter <i>et al.</i> , published April 3, 2003
<b>1012 – 1015</b>	<i>Intentionally left blank</i>
<b>1016</b>	U.S. Patent Application Publication No. 2009/0105556 to Fricke <i>et al.</i> , published April 23, 2009
<b>1017</b>	<i>Intentionally left blank</i>
<b>1018</b>	U.S. Patent No. 3,704,706 to Herczfeld <i>et al.</i> , issued December 5, 1972
<b>1019</b>	U.S. Patent No. 5,297,548 to Pologe, issued March 29, 1994
<b>1020</b>	Med. Sci. Series, Int'l Fed'n for Med. and Biological Eng'g and the Int'l Org. for Med. Physics, Design of Pulse Oximeters (J.G. Webster ed., Inst. of Physics Publ'g 1997)
<b>1021</b>	John Allen, <i>Photoplethysmography and its application in clinical physiological measurement</i> , Physiological Measurement 28 (2007)
<b>1022</b>	U.S. Patent Application Publication No. 2008/0132798 to Hong <i>et al.</i> , published June 5, 2008

Exhibit No.	Description
1023	U.S. Patent Application Publication No. 2008/0177162 to Bae <i>et al.</i> , published July 24, 2008
1024	U.S. Patent No. 5,807,267 to Bryars <i>et al.</i> issued September 15, 1998
1025	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)
1026	Excerpts from Merriam Webster's Collegiate Dictionary, Eleventh Edition, 2008; pp. 603 and 1434
1027	U.S. Patent Application Publication No. 2004/0186387 to Kosuda <i>et al.</i> , published September 23, 2004
1028	U.S. Patent Application No. 2009/0287067 to Dorogusker <i>et al.</i> , published November 19, 2009
1029	Japanese Patent Application Publication No. 2005/270544 to Maekawa, published October 6, 2005
1030	Certified English-language translation of Japanese Patent Application Publication No. 2005/270544 to Maekawa, published October 6, 2005
1031	U.S. Patent Application No. 2005/059870 to Aceti, published March 17, 2005
1032	G. Comtois & Y. Mendelson, <i>A Comparative Evaluation of Adaptive Noise Cancellation Algorithms for Minimizing Motion Artifacts in a Forehead-Mounted Wearable Pulse Oximeter</i> , IEEE (2007)
1033	Declaration of Gerard P. Grenier in support of G. Comtois & Y. Mendelson, <i>A Comparative Evaluation of Adaptive Noise Cancellation Algorithms for Minimizing Motion Artifacts in a Forehead-Mounted Wearable Pulse Oximeter</i> , IEEE (2007) (Ex. 1032)
1034	U.S. Patent Application Publication No. 2004/0059236 to Margulies <i>et al.</i> , published March 25, 2004
1035	U.S. Patent Application Publication No. 2007/0016086 to Inukai <i>et al.</i> , published January 18, 2007
1036	U.S. Patent Application Publication No. 2003/0236647 to Yoon <i>et al.</i> , published December 25, 2003
1037	International Patent Application Publication No. 2007/013054 to Schwartz, published February 1, 2007
1038	U.S. Patent No. 5,575,284 to Athan <i>et al.</i> , issued November 19, 1996
1039	U.S. Patent No. 5,503,016 to Koen, issued April 2, 1996

<b>Exhibit No.</b>	<b>Description</b>
<b>1040</b>	U.S. Patent Application Publication No. 2008/0154098 to Morris <i>et al.</i> , published June 26, 2008
<b>1041</b>	U.S. Patent Application Publication No. 2007/0027367 to Oliver <i>et al.</i> , published February 1, 2007
<b>1042</b>	U.S. Patent Application Publication No. 2007/0197881 to Wolf <i>et al.</i> , published August 23, 2007
<b>1043</b>	U.S. Patent Application Publication No. 2005/0075542 to Goldreich, published April 7, 2005
<b>1044</b>	International Patent Application Publication No. WO2007/004089 to Moroney <i>et al.</i> , published January 11, 2007
<b>1045</b>	G. Sen Gupta <i>et al.</i> , <i>Design of a Low-cost Physiological Parameter Measurement and Monitoring Device</i> , Instrumentation and Measurement Technology Conference, IEEE (2007)
<b>1046</b>	U.S. Patent Application Publication No. 2006/0084879 to Nazarian <i>et al.</i> , published April 20, 2006
<b>1047</b>	U.S. Patent No. 5,243,992 to Eckerle <i>et al.</i> , issued September 14, 1993
<b>1048</b>	U.S. Patent No. 4,955,379 to Hall, issued September 11, 1990
<b>1049</b>	International Patent Application Publication No. WO 2007/122375 to Crowe <i>et al.</i> , published November 1, 2007
<b>1050</b>	Excerpt from Wiley Electrical and Electronics Engineering Dictionary, 2004; p. 110
<b>1051</b>	Excerpt from Dictionary of Computer and Internet Terms, 2009; p. 90
<b>1052</b>	Declaration of Gerard P. Grenier in support of G. Sen Gupta <i>et al.</i> , <i>Design of a Low-cost Physiological Parameter Measurement and Monitoring Device</i> , Instrumentation and Measurement Technology Conference, IEEE (2007) (Ex. 1045) and 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. 1025)
<b>1053</b>	U.S. Patent No. 6,801,799 to Mendelson <i>et al.</i> , issued October 5, 2004
<b>1054</b>	U.S. Patent No. 6,898,451 to Wuori, issued May 24, 2005
<b>1055-1066</b>	<i>Intentionally Left Blank</i>
<b>1067</b>	Transcript of teleconference among Board and Parties held on April 5, 2017, <i>Apple Inc. v. Valencell, Inc.</i> , Case Nos. IPR2017-00315, IPR2017-00319, and IPR2017-00321.

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