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DECLARATION OF DR. MAJID SARRAFZADEH

Apple Inc.



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		[14.P] A wearable device		
		[14.1] a housing		
		[14.2] a chipset enclosed within the housing		
		[14.3] at least one PPG sensor		
		[14.4] at least one motion sensor		
		[14.5] at least one signal processor configured to process signals from the at least one motion sensor and signals from the at least one PPG sensor to reduce motion artifacts from the PPG signals		



		exposes the at least one PPG sensor to a body of a subject wear the device	_
		[14.7] the housing comprises non-air light transmissive material in optical communication with the at least one PPG sensor and the window	
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		[14.4] at least one motion sensor	75
		[14.5] at least one signal processor configured to process signals from the at least one motion sensor and signals from the at least one PPG sensor to reduce motion artifacts from the PPG signals	
		[14.6] the housing comprises at least one window that optically exposes the at least one PPG sensor to a body of a subject wear the device	_
		[14.7] the housing comprises non-air light transmissive material in optical communication with the at least one PPG sensor and the window	
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EXHIBIT LIST

Exhibit No.	Description
1001	U.S. Patent No. 8,923,941 to LeBoeuf et al., issued December 30,
	2014
1002	U.S. Patent No. 8,923,941 File History
1004	Curriculum Vitae of Dr. Majid Sarrafzadeh
1006	U.S. Patent Application Publication No. 2005/0209516 to Fraden,
	published September 22, 2005
1008	U.S. Patent Application Publication No. 2008/0081972 to
	Debreczeny, published April 3, 2008
1009	Japanese Patent Application Publication No. 2005/040261 A to
	Numaga et al., published February 17, 2005
1010	Certified English-language translation of Japanese Patent
	Application Publication No. 2005/040261 A to Numaga et al.,
	published February 17, 2005
1011	U.S. Patent Application Publication No. 2003/0065269 to Vetter <i>et</i>
	al., published April 3, 2003
1016	U.S. Patent Application Publication No. 2009/0105556 to Fricke <i>et</i>
	al., published April 23, 2009
1018	U.S. Patent No. 3,704,706 to Herczfeld <i>et al.</i> , issued December 5, 1972
1019	U.S. Patent No. 5,297,548 to Pologe, issued March 29, 1994
1020	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)
1021	John Allen, Photoplethysmography and its application in clinical
	physiological measurement, Physiological Measurement 28 (2007)
1022	U.S. Patent Application Publication No. 2008/0132798 to Hong <i>et</i>
	al., published June 5, 2008
1023	U.S. Patent Application Publication No. 2008/0177162 to Bae,
	published July 24, 2008
1024	U.S. Patent No. 5,807,267 to Bryars et al., issued September 15,
	1998
1025	Hyonyoung Han et al., Development of a wearable health
	monitoring device with motion artifact reduced algorithm,
	International Conference on Control, Automation and Systems,
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1026	Excerpt from Merriam Webster's Collegiate Dictionary,



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