UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

APPLE INC., Petitioner,

v.

MASIMO CORPORATION, Patent Owner.

Case IPR2022-01291 U.S. Patent 10,687,745

PETITIONER'S REPLY TO PATENT OWNER'S RESPONSE



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I.	IWAMIYA-SARANTOS RENDERS OBVIOUS CLAIMS 1 AND 9 (GROUND 1A) AND IWAMIYA-SARANTOS-VENKATRAMAN RENDERS OBVIOUS CLAIMS 15, 18, 20, AND 27 (GROUND 1B)3					
	A.	Iwamiya-Sarantos renders obvious a "surface comprising a dark-colored coating" (elements [1.4] and [20.4])				
	В.	Iwamiya-Sarantos-Venkatraman renders obvious that "the plurality of photodiodes are arranged in an array having a spatial configuration corresponding to a shape of the portion of the tissue measurement site encircled by the light block" (element [15.4])				
	C.	Iwamiya-Sarantos (with or without Venkatraman) renders obvious measuring oxygen saturation at the wrist (claims 9 and 18) and adding a second wavelength (claim 27)				
		1.	Sarantos discloses and renders obvious measuring oxygen saturation at the wrist			
		2.	A POSITA would have known how to make predictable adaptations to Iwamiya's device that would allow the device in the Iwamiya-Sarantos combination to measure oxygen saturation			
		3.	The POR mischaracterizes Iwamiya in asserting that it teaches away from measuring blood oxygen saturation using red and infrared light			
		4.	A POSITA would have reasonably expected success in modifying Iwamiya to measure oxygen saturation at the wrist 15			
	D.	D. Apple demonstrated that Iwamiya-Sarantos-Venkatraman render obvious claim 20 and 27, and all their elements				
II.	(GRO	DUND	OS-SHIE RENDERS OBVIOUS CLAIMS 1, 9, 15, AND 18 O 2A) AND SARANTOS-SHIE-VENKATRAMAN RENDERS CLAIMS 15, 18, 20, AND 27 (GROUND 2B)24			



	A.	Sarantos-Shie renders obvious a "first shape" and a different "second shape" (elements [1.1]-[1.2] and [20.1]-[20.2])24			
		1. Shie discloses changing a first shape of light into a second shape			
		2. A POSITA would have been motivated to combine Sarantos and Shie and would have reasonably expected success25			
	В.	Sarantos-Shie (with or without Venkatraman) renders obvious a "light block having a circular shape" (element [15.3])			
	C.	Sarantos-Shie (with or without Venkatraman) renders obvious "the plurality of photodiodes are arranged in an array having a spatial configuration corresponding to a shape of the portion of the tissue measurement site encircled by the light block" (elemen [15.4])27			
	D.	Sarantos-Shie (with or without Venkatraman) renders obvious measuring oxygen saturation at the wrist (claims 9 and 18)28			
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EXHIBITS

APPLE-1001	U.S. Pat. No.	10,687,745 to Al-Ali	("the '745 Patent")

APPLE-1003 Declaration of Dr. Brian Anthony

APPLE-1004 U.S. Pat. No. 8,670,819 ("Iwamiya")

APPLE-1005 U.S. Pat. No. 9,392,946 ("Sarantos")

APPLE-1006 U.S. Pub. No. 2014/0275854 ("Venkataraman")

APPLE-1007 U.S. Pat. No. 6,483,976 ("Shie")

APPLE-1008 U.S. Pat. No. 6,801,799 ("Mendelson-799")

APPLE-1009 U.S. Pub. No. 2015/0018647 ("Mandel")

APPLE-1010 U.S. Pub. No. 2009/0275810 ("Ayers")

APPLE-1011 PCT. Pub. No. 2011/051888 ("Ackermans")

APPLE-1012 U.S. Pat. No. 6,158,245 ("Savant")

APPLE-1013 Design of Pulse Oximeters, J.G. Webster; Institution of Physics Publishing, 1997 ("Webster")

APPLE-1014 U.S. Pub. No. 2009/0054112 ("Cybart")

APPLE-1015 U.S. Pat. No. 5,893,364 ("Haar")

APPLE-1016 U.S. Pat. No. 5,952,084 ("Anderson")

APPLE-1017 U.S. Pat. No. 10,470,695 (the "'695 patent")

APPLE-1018 Apple v. Masimo, Case No. IPR2020-01722, Paper 29 (Final Written Decision) (PTAB May 5, 2022) (the "'695 FWD")



APPLE-1019 – APPLE-1030 RESERVED

- APPLE-1031 *Masimo Corporation, et al. v. Apple Inc.*, Redacted Complaint, ITC Inv. No. 337-TA-1276
- APPLE-1032 Interim Procedure for Discretionary Denials in AIA Post-Grant Proceedings with Parallel District Court Litigation, issued June 21, 2022 ("Interim Guidance")
- APPLE-1033 Final Initial Determination on Violation of Section 337, Public Version, ITC Inv. No. 337-TA-1276, January 10, 2023
- APPLE-1034 Emails re Masimo's Request for Authorization to Motion for Additional Discovery
- APPLE-1035 Protective Order
- APPLE-1036 CONFIDENTIAL ITC Inv. No. 337-TA-1276 Hearing Transcript of Dr. Ueyn Block
- APPLE-1037 CONFIDENTIAL ITC Inv. No. 337-TA-1276 Hearing Transcript of Dr. Saahil Mehra
- APPLE-1038 ITC Inv. No. 337-TA-1276 Exhibit RX-0335 (U.S. Pat. No. 5,830,137 ("Scharf"))
- APPLE-1039 ITC Inv. No. 337-TA-1276 Exhibit RX-0504 (Austin Wareing, Optimization of Reflectance-Mode Pulse Oximeter Sensors)
- APPLE-1040 ITC Inv. No. 337-TA-1276 Exhibit RX-0508 (Jianchu Yao and Steve Warren, Stimulating Student Learning with a Novel "In-House" Pulse Oximeter Design (2005))
- APPLE-1041 ITC Inv. No. 337-TA-1276 Exhibit RX-0632
- APPLE-1042 CONFIDENTIAL Supplemental Declaration of Dr. Brian Anthony



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