UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

APPLE INC., Petitioner,

v.

MASIMO CORPORATION, Patent Owner.

Case IPR2022-01465 U.S. Patent 10,687,745

PETITIONER'S REPLY TO PATENT OWNER'S RESPONSE



Case No. IPR2022-01465 Attorney Docket: 50095-0045IP3

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I.	IWAMIYA-SARANTOS RENDERS OBVIOUS CLAIMS 2-3, 5-6, 8, 10-12, AND 14 (GROUND 1A) AND IWAMIYA-SARANTOS-VENKATRAMAN RENDERS OBVIOUS CLAIMS 4, 17, 19, AND 21-26 (GROUND 1B)			
	A.	Iwamiya-Sarantos renders obvious a "surface comprising a dark-colored coating" (elements [1.4] and [20.4])		
	В.	Iwamiya-Sarantos (with or without 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/bounded] by the light block" (element [15.4] and claims 6 and 26)		
	C.	Iwamiya-Sarantos renders obvious adding a second wavelength (claim 2) to measure oxygen saturation at the wrist		
		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 13	
	D.	com	miya-Sarantos-Venkatraman renders obvious "the second shape prises a width and a length, and wherein the width is different the length" (Claim 25)	
II.	14, 1	SARANTOS-SHIE RENDERS OBVIOUS CLAIMS 2, 5, 6, 8, 10, 11, 13, 14, 17, AND 19 (GROUND 2A), SARANTOS-SHIE-VENKATRAMAN RENDERS OBVIOUS CLAIMS 3-4, 17, 19, AND 21-26 (GROUND 2B),		



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AND SARANTOS-SHIE-SAVANT RENDERS OBVIOUS CLAIM (GROUND 2C)		
A.	Sarantos-Shie renders obvious a "first shape" and a different "second shape" (elements [1.1]-[1.2], [20.1]-[20.2], claim 19)	
	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 success24	
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 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], claims 6 and 26)	
D.	Sarantos-Shie-Savant renders obvious the second shape comprising a circular geometry (claim 12)	
E.	Sarantos-Shie-Venkatraman renders obvious "the second shape comprises a width and a length, and wherein the width is different from the length" (Claim 25)	
CONT	CLUSION	



III.

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EXHIBITS

APPLE-1001	U.S. Pat. No. 10,687,745 to Al-Ali ("the '745 patent")
APPLE-1002	Prosecution History of the '745 patent (Serial No. 16/835,772)
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")



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APPLE-1019 U.S. Pub. No. 2009/0097129 ("Naito") APPLE-1020 U.S. Pub. No. 2006/0128869 ("Taima") Polymers and Plastic Resins Information, Engineering 360, printed APPLE-1021 from https://www.globalspec.com/learnmore/materials chemicals adhes ives/plastics elastomers polymers/plastics polymers on August 15, 2022 APPLE-1022 Methods and Approaches of Futures Studies, printed from http://crab.rutgers.edu/~goertzel/futuristmethods.html on August 15, 2022 APPLE-1023 – 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 Protective Order APPLE-1035 CONFIDENTIAL - ITC Inv. No. 337-TA-1276 Hearing Transcript APPLE-1036 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"))



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