UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

APPLE INC.,

Petitioner

v.

COREPHOTONICS, LTD., Patent Owner

IPR2020-00905 U.S. Patent 10,225,479

PETITIONER'S REPLY

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III.	Obviousness			
	A.	Patent Owner's expert, Dr. Hart, applies the wrong standard for a POSITA in his obviousness analysis		
	B.	Claims 1, 10-14, 16, 18, 23, 32-36, 38, and 40 are obvious over the combination of Parulski and Konno7		
		1. A POSITA would have implemented Parulski's Fig. 14 method to output a combined image with a broadened depth of field by using Parulski's range mapping method in Fig. 11 to identify and extract objects		
		2. Parulski teaches outputting a "fused image with a point of view (POV) of the Wide camera" when this term is properly construed to include Wide position POV		
	C.	Claims 2-4 and 24-26 are obvious over the combination of Parulski, Konno, and Szeliski		
	D.	Claims 5-9 and 27-31 are obvious over the combination of Parulski, Konno, Szeliski, and Segall		
	E.	Claims 15 and 37 are obvious over the combination of Parulski, Konno, and Stein		
IV.	Secondary Considerations			
	А.	No nexus		
		1. Patent Owner is not entitled to a presumption of nexus		
		2. Patent Owner fails to prove nexus		
	B.	Praise/licensing lacks nexus and is self-serving		
	C.	Patent Owner did not show commercial success		
	D.	No failure of others		
	Е.	No evidence of copying		

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Petitioner's Reply IPR2020-00905 (Patent No. 10,225,479)

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VI.	Certificate of Word Count	.28
V.	Conclusion	27

PETITIONER'S EXHIBIT LIST

Updated: May 7, 2021

APPL-1001	U.S. Patent No. 10,225,479 to Shabtay et al. (the "'479 Patent")
APPL-1002	Prosecution File History of the '479 Patent (the "'242 App")
APPL-1003	Declaration of Dr. Fredo Durand Ph.D.
APPL-1004	CV of Dr. Fredo Durand
APPL-1005	U.S. Patent No. 7,859,588 to Parulski et al. ("Parulski")
APPL-1006	Used in co-filed Petition
APPL-1007	Used in co-filed Petition
APPL-1008	Used in co-filed Petition
APPL-1009	Used in co-filed Petition
APPL-1010	Used in co-filed Petition
APPL-1011	Used in co-filed Petition
APPL-1012	Used in co-filed Petition
APPL-1013	Richard Szeliski, COMPUTER VISION – ALGORITHMS AND APPLICATIONS (2011) ("Szeliski")
APPL-1014	Used in co-filed Petition
APPL-1015	JP Pub. No. 2013-106289 to Konno et al. ("Konno"), Certified English translation and Original
APPL-1016	Ralph E. Jacobson et al., The Manual of Photography: photographic and digital imaging, 9th Edition, 2000 ("Jacobson")
APPL-1017	U.S. Patent App. Pub. No. 2010/0321511 to Koskinen et al. ("Koskinen")

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APPL-1018	U.S. Patent No. 7,206,136 to Labaziewicz et al. ("Labaziewicz")
APPL-1019	Used in co-filed Petition
APPL-1020	Warren J. Smith, MODERN LENS DESIGN (1992) ("Smith")
APPL-1021	Declaration of Dr. Jose Sasián, Ph.D.
APPL-1022	ZEMAX Development Corporation, ZEMAX Optical Design Program User's Manual, February 14, 2011 ("ZEMAX User's Manual")
APPL-1023	U.S. Patent No. 8,908,041 to Stein et al. ("Stein")
APPL-1024	U.S. Patent No. 8,406,569 to Segall et al. ("Segall")
APPL-1025	U.S. Patent No. 8,824,833 to Dagher et al. ("Dagher")
APPL-1026	Used in co-filed Petition
APPL-1027	File History for Provisional No. 61/752,515 to Stein ("Stein provisional")
APPL-1028	Used in co-filed Petition
APPL-1029	Used in co-filed Petition
APPL-1030	Used in co-filed Petition
APPL-1031	Product announcement for Sony ICX612 12 MP image sensor
APPL-1032	Product announcement for Sony ICX652 13.5 MP image sensor
APPL-1033	Used in co-filed Petition
APPL-1034	U.S. Patent No. 7,112,774 to Baer
APPL-1035	Robert E. Fischer et al., OPTICAL SYSTEM DESIGN (2008)
APPL-1036	Email from Patent Owner's counsel authorizing electronic service

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