UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

INTEL CORPORATION, GLOBALFOUNDRIES U.S., INC.,
MICRON TECHNOLOGY, INC., and
SAMSUNG ELECTRONICS COMPANY, LTD.,
Petitioners,

v.

DANIEL L. FLAMM,

Patent Owner.

PTAB Case No. IPR2017-00280¹
Patent No. RE40,264 E

PETITIONERS' REPLY TO PATENT OWNER'S RESPONSE

Claims 27-36, 51-55, 66 & 68-69

¹ Samsung Electronics Company, Ltd. was joined as a party to this proceeding via a Motion for Joinder in IPR2017-01750.



1.	Intro	ntroductionl				
II.	Combinations based on Kadomura and Matsumura rendered claims 27-36, 51-55, 66, and 68-69 obvious					
	A.	The prior art taught changing processing temperature within a "preselected time [interval/period]"				
	B.	It would have been obvious to combine Kadomura and Matsumura				
		1.	A skilled person would have combined Kadomura and Matsumura	5		
		2.	Flamm does not meaningfully address some of Petitioners' motivations and his arguments on the others fail	8		
	C.	Flamm mischaracterizes Kadomura and Matsumura				
		1.	Kadomura	13		
		2.	Matsumura	15		
III.	Combinations based on Kikuchi and Matsumura also rendered claims 27-36, 51-55, 66, and 68-69 obvious					
	A.	Kikuchi and Matsumura disclosed each element of claim 27				
		1.	Kikuchi and Matsumura taught claim 27, limitation [a]	17		
		2.	Kikuchi and Matsumura disclosed claim 27, limitation [e]	19		
	B.	A skilled person would have been motivated to combine Kikuchi and Matsumura				
IV.		Petitioners are relying on the same theories of unpatentability as in the Petition22				
V.	Flamm has waived any arguments unique to the dependent claims2					
VI.	Flamm's supporting declaration is entitled to little, if any, weight23					
VII	Conc	Conclusion				



TABLE OF AUTHORITIES

CASES

Belden Inc. v. Berk-Tek LLC,	
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OTHER AUTHORITIES	
37 C.F.R. § 42.23(b)	22
37 C.F.R. § 42.65(a)	24



UPDATED EXHIBIT LIST

Petitioner's Exhibits				
Exhibit	Description			
Ex. 1001	U.S. Patent No. RE40,264 ("'264 patent")			
Ex. 1002	U.S. Patent No. 5,605,600 ("Muller")			
Ex. 1003	U.S. Patent No. 5,151,871 ("Matsumura")			
Ex. 1004	U.S. Patent No. 5,226,056 ("Kikuchi")			
Ex. 1005	U.S. Patent No. 6,063,710 ("Kadomura")			
Ex. 1006	Declaration of Dr. John Bravman in Support of Petition for <i>Inter Partes</i> Review of U.S. Patent No. RE40,264			
Ex. 1007	U.S. Patent Application No. 08/567,224 ("'224 application")			
Ex. 1008	Wright, D.R. et al., A Closed Loop Temperature Control System for a Low-Temperature Etch Chuck, Advanced Techniques for Integrated Processing II, Vol. 1803 (1992), pp. 321–329 ("Wright")			
Ex. 1009	U.S. Patent No. 5,711,849 ("'849 patent")			
Ex. 1010	U.S. Patent No. 4,331,485 ("Gat")			
Ex. 1011	U.S. Patent No. 5,393,374 ("Sato")			
Ex. 1012	PTAB Decision Denying Institution of <i>Inter Partes</i> Review, <i>Lam Research Corp. v. Daniel L. Flamm</i> , IPR2016-00470, Paper 6 (July 1, 2016)			
Ex. 1013	PTAB Institution of <i>Inter Partes</i> Review, <i>Lam Research Corp. v.</i> Daniel L. Flamm, IPR2015-01768, Paper 7 (February 24, 2016)			
Ex. 1014	Petition for <i>Inter Partes</i> Review of U.S. Patent No. RE40,264 E Fourth Petition, <i>Lam Research Corp. v. Daniel L. Flamm</i> , IPR2015-01768, Paper 1 (August 18, 2015)			



UPDATED EXHIBIT LIST (continued)

Ex. 1015	PTAB Decision Denying Institution of <i>Inter Partes</i> Review, <i>Lam Research Corp. v. Daniel L. Flamm</i> , IPR2016-00469, Paper 6 (July 1, 2016)
Ex. 1016	PTAB Institution of <i>Inter Partes</i> Review, <i>Lam Research Corp. v. Daniel L. Flamm</i> , IPR2015-01764, Paper 7 (February 24, 2016)
Ex. 1017	U.S. Patent No. 5,446,824 ("Moslehi '824")
Ex. 1018	U.S. Patent No. 5,628,871 ("Shinagawa")
Ex. 1019	U.S. Patent No. 5,174,856 ("Hwang")
Ex. 1020	Declaration of Rachel J. Watters regarding Exhibit 1008
Ex. 1021	Declaration of Jared Bobrow in Support of Motion for Pro Hac Vice Admission
Ex. 1022	Declaration of Chad Campbell in Support of Motion for Pro Hac Vice Admission
Ex. 1023	Reply Declaration of Dr. John Bravman in Support of Petition for <i>Inter Partes</i> Review of U.S. Patent No. RE40,264 and Reply to Patent Owner's Response
Ex. 1024	Final Written Decision, <i>Thorley Indus. LLC v. Kolcraft Enter., Inc.</i> , IPR2016-00352, Paper 25 (June 1, 2017)
Ex. 1025	Final Written Decision, inContact, Inc. v. Microlog Corp., IPR2015-00560, Paper 21 (July 28, 2016)
Ex. 1026	Patent Owner Preliminary Response, <i>Lam Research Corp. v. Daniel L. Flamm</i> , IPR2016-00470, Paper 5 (April 27, 2016)
Ex. 1027	Final Written Decision, <i>Curt G. Joa, Inc. v. Fameccanica.Data S.p.A.</i> , IPR2016-00906, Paper 79 (October 11, 2017)
Ex. 1028	Decision Denying Institution of <i>Inter Partes</i> Review, <i>Kinetic Techs., Inc. v. Skyworks Sols., Inc.</i> , IPR2014-00529, Paper 8 (September 23, 2014)



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