

**UNITED STATES PATENT AND TRADEMARK OFFICE**

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**BEFORE THE PATENT TRIAL AND APPEAL BOARD**

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MICRON TECHNOLOGY, INC.,  
Petitioner,

v.

VERVAIN, LLC,  
Patent Owner.

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Case No.: IPR2021-01550  
U.S. Patent No. 10,950,300  
Original Issue Date: March 16, 2021

Title: LIFETIME MIXED LEVEL NON-VOLATILE MEMORY SYSTEM

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**PETITIONER'S MOTION FOR ADMISSION *PRO HAC VICE* OF  
JARED BOBROW PURSUANT TO 37 C.F.R. § 42.10**

## LISTING OF EXHIBITS

Exhibit	Description
1001-1006	<i>Intentionally omitted</i>
1007	U.S. Patent No. 10,950,300 (“300 patent”)
1008	File History of U.S. Patent No. 10,950,300
1009	Declaration of Dr. David Liu (“Liu Decl.”) – IPR2021-01550
1010	U.S. Patent Application Publication No. 2011/0099460 (“Dusija”)
1011	U.S. Patent Application Publication No. 2008/0140918 (“Sutardja”)
1012	<i>Intentionally omitted</i>
1013	<i>Intentionally omitted</i>
1014	Betty Prince, Semiconductor Memories – A Handbook of Design, Manufacture, and Application (2d ed. 1991) (“Prince”)
1015	U.S. Patent No. 8,120,960 (“Varkony”)
1016	U.S. Patent No. 7,000,063 (“Friedman”)
1017	U.S. Patent Application Publication No. 2005/0251617 (“Sinclair”)
1018	Jan Axelson, USB Mass Storage: Designing and Programming Devices and Embedded Hosts (2006) (“Axelson”)
1019	Rino Micheloni et al., Inside NAND Flash Memories (1 <sup>st</sup> ed. 2010) (“Micheloni”)
1020	U.S. Patent Application Publication No. 2011/0115192 (“Y. Lee”)
1021	U.S. Patent No. 7,453,712 (“Kim”)
1022	U.S. Patent Application Publication No. 2011/0096601 (“Gavens”)
1023	U.S. Patent No. 8,078,794 (“C. Lee”)

<b>Exhibit</b>	<b>Description</b>
1024	U.S. Patent No. 7,733,729 (“Boeve”)
1025	Microsoft Computer Dictionary, Fifth Edition, 2002, definition of read-after-write
1026	Merriam-Webster’s Collegiate Dictionary, Eleventh Edition, 2006, definition of periodic
1027	<i>Intentionally omitted</i>
1028	U.S. Patent Application Publication No. 2010/0172180 (“Paley”)
1029	U.S. Patent No. 7,853,749 (“Kolokowsky”)
1030	U.S. Patent Application Publication No. 2010/0017650 (“Chin”)
1031	European Patent Specification No. EP 2.291.746 B1 (“Radke”)
1032	<i>Intentionally omitted</i>
1033	U.S. Patent Application Publication No. 2006/0053246 (“S. Lee”)
1034	Complaint for Patent Infringement, Dkt. No. 1, <i>Vervain, LLC v. Micron Technology, Inc., Micron Semiconductor Products, Inc., and Micron Technology Texas, LLC</i> , Case No. 6:21-cv-00487-ADA (May 10, 2021 W.D. Tex.)
1035	Agreed Scheduling Order, Dkt. No. 24, dated September 16, 2021, in <i>Vervain, LLC v. Micron Technology, Inc., Micron Semiconductor Products, Inc., and Micron Technology Texas, LLC</i> , Case No. 6:21-cv-00487-ADA
1036	Vervain’s Preliminary Infringement Contentions, dated August 6, 2021, in <i>Vervain, LLC v. Micron Technology, Inc., Micron Semiconductor Products, Inc., and Micron Technology Texas, LLC</i> , Case No. 6:21-cv-00487-ADA
1037	Judge Albright, Order Governing Proceedings - Patent Cases (OGP 3.4), dated June 24, 2021

<b>Exhibit</b>	<b>Description</b>
1038	Scott McKeown, “WDTX ‘Implausible Schedule’ & Cursory Markman Order Highlighted,” Ropes & Gray, Patents Post-Grant, Inside Views & News Pertaining to the Nation’s Busiest Patent Court, June 2, 2021
1039	Dani Kass, Judge Albright Now Oversees 20% of New U.S. Patent Cases, Law360, March 10, 2021
1040	Brian Dipert and Markus Levy, Designing with Flash Memory (1994) (“Dipert & Levy”)
1041	U.S. Patent No. 7,366,826 (“Gorobets”)
1042	U.S. Patent No. 6,901,498 (“Conley”)
1043	U.S. Patent No. 8,356,152 (“You”)
1044-1046	<i>Intentionally omitted</i>
1047	Ashok Sharma, Advanced Semiconductor Memories, Architectures, Designs, and Applications (2003) (“Sharma”)
1048	Microsoft Computer Dictionary, Fifth Edition, 2002, definitions of static RAM and volatile memory
1049	U.S. Patent No. 5,936,971 (“Harari”)
1050	PCT Publication No. WO 03/027828 (“Gorobets WO”)
1051	Microsoft Computer Dictionary, Fifth Edition, 2002, definition address space
1052	U.S. Patent Application Publication No. 2009/0300269 (“Radke Appl.”)
1053	U.S. Patent No. 8,250,333 (“Gorobets II”)
1054	Microsoft Computer Dictionary, Fifth Edition, 2002, definition of firmware
1055	<i>Intentionally omitted</i>

<b>Exhibit</b>	<b>Description</b>
1056	Declaration of Jared Bobrow in Support of Petitioner's Motion for Admission <i>Pro Hac Vice</i> - IPR2021-01550

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