

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

SIEMENS MOBILITY, INC., GROUND TRANSPORTATION SYSTEMS USA,
INC., HUMATICS CORP., and PIPER NETWORKS, INC.,
Petitioners

v.

METROM RAIL, LLC,
Patent Owner

IPR2023-00468
U.S. Patent No. 9,043,131

PETITIONERS' UPDATED EXHIBIT LIST

Pursuant to 37 C.F.R. § 42.63(e), Petitioners hereby submit a current listing of Petitioners' Exhibits.

UPDATED EXHIBIT LIST

Exhibit	Description
1001	U.S. Patent No. 9,043,131 (“’131 patent”)
1002	Prosecution File History of U.S. Patent No. 9,043,131
1003	Declaration of Scott Andrews
1004	Curriculum Vitae of Scott Andrews
1005	European Patent Application No. EP 1 785 744 (“Suzuki”)
1006	U.S. Patent No. 6,759,948 (“Grisham”)
1007	Declaration of Sylvia Hall-Ellis, Ph.D.
1008	An Outdoor UWB Tracking System to Improve Safety of Semi-Autonomous Vehicle Operations (“Richardson”)
1009	Prosecution File History of U.S. Patent No. 8,812,227
1010	Copy of Complaint in <i>Metrom Rail, LLC v. Siemens Mobility, Inc., et al.</i> , No. 1:22-cv-00049-RGA (D. Del.), filed 01/13/2022
1011	U.S. Patent No. 8,874,359 (“Douglas”)
1012	U.S. Patent Publication No. 2009/0255329 (“Connell”)
1013	U.S. Patent No. 6,133,876 (“Richards”)
1014	U.S. Patent Publication No. 2010/0052945 (“Breed ’945”)
1015	U.S. Patent Publication No. 2007/0255498 (“McDaniel”)
1016	International Patent Application No. WO 03/009254 (“Nixon”)
1017	[reserved]
1018	U.S. Patent Publication No. 2008/0150786 (“Breed ’786”)
1019	U.S. Patent No. 2,188,293 (“Williams”)
1020	U.S. Patent No. 3,898,652 (“Rashid”)

1021	“Driving Assistance Provided by Adaptive Cruise Control”
1022	SAE J2735/2009-11
1023	U.S. Patent No. 5,036,478 (“MacDougall”)
1024	“Operation of the Eaton VORAD Collision Warning System and Analysis of the Recorded Data”
1025	U.S. Patent Publication No. 20070293153 (“Molisch”)
1026	IEEE Std 802.15.4™-2011, Local and Metropolitan Area Networks: Part 15.4: Low-Rate Wireless Personal Area Networks
1027	Time Domain’s Ultra Wideband (UWB) Definition and Advantages, Time Domain (March 2011)
1028	U.S. Patent Publication No. 2006/0009240
1029	U.S. Patent No. 7,725,252 (“Heddebaut”)
1030	U.S. Patent No. 2,216,575 (“Seinfeld”)
1031	“Transponder History - RADAR Identification of Aircraft”
1032	“Collision of Metrolink Train 111 With Union Pacific Train LOF65-12”
1033	“Collisions & Casualties by Year”
1034	“Fatal Crashes at Highway Rail Grade Crossings”
1035	“Highway-Rail Grade Crossings Overview”
1036	“Railroad Accident: Common Causes, Statistics and Prevention”
1037	U.S. Patent No. 6,631,322 (“Arthur”)
1038	Positive Train Control (May 2012)
1039	“CCS: A Railway Corridor Control System Utilizing UWB Radio Technology”
1040	Docket as of January 13, 2023 for <i>Metrom Rail, LLC v. Siemens Mobility, Inc., et al.</i> , No. 1:22-cv-00049-RGA (D. Del.)
1041	Declaration of Steve Moore
1042	Copy of First Amended Complaint in <i>Metrom Rail, LLC v. Siemens Mobility, Inc., et al.</i> , No. 1:22-cv-00049-RGA (D. Del.), filed 04/26/2022

1043	Copy of Exhibit K to the First Amended Complaint in <i>Metrom Rail, LLC v. Siemens Mobility, Inc., et al.</i> , No. 1:22-cv-00049-RGA (D. Del.), filed 04/26/2022
1044	[reserved]
1045	Declaration of Todor Cooklev
1046	Claim Chart for Claims 1 & 7 of U.S. Patent No. 9,043,131
1047	Declaration of Nathan R. Speed in Support of Motion for Admission <i>Pro Hac Vice</i>
1048	Declaration of Mark M. Supko in Support of Motion for Admission <i>Pro Hac Vice</i>
1049	Declaration of Nicole S. Cunningham in Support of Motion for Admission <i>Pro Hac Vice</i>
1050	List of Metrom Rail Patents at https://metrom-rail.com/patents
1051	Transcript of Deposition of Professor Todor Cooklev (Oct. 23, 2023)
1052	Transcript of Deposition of Kurt Gunther (Nov. 15, 2023)
1053	Transcript of Deposition of Carl Edward Conti (Nov. 21, 2023)
1054	Transcript of Deposition of James Marchi (Nov. 30, 2023)
1055	"Time-Reversal UWB Wireless Communication-Based Train Control in Tunnel" (May 2009)
1056	U.S. Provisional Patent Application No. 62/897,860
1057	"MTA demonstrates successful ultra-wideband technology pilot on Flushing and Canarsie lines"
1058	Revision of the Rules Regarding Ultra-Wideband Transmission Systems, 63 Fed. Reg. 50184 (Sept. 21, 1998)
1059	In re Revision of Part 15 of the Commission's Rules Regarding Ultra-Wideband Transmission Systems, First Report and Order

1060	U.S. Patent No. 6,480,766 (“Hawthorne”)
1061	Screenshots of USPTO’s Patent Public Search Database
1062	Petitioners' Oral Argument Demonstratives

Respectfully submitted,

Dated: March 26, 2024

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CERTIFICATE OF SERVICE

The undersigned hereby certifies that on March 26, 2024, a true and correct copy of the foregoing Petitioners' Updated Exhibit List was served by electronic mail on the following email address:

MetromIPR@mcandrews-ip.com

Respectfully submitted,

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