

Paper No. _____

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

MICRO MOTION, INC.

Petitioner

v.

INVENSYS SYSTEMS, INC.

Patent Owner

Patent No. 7,571,062

Issue Date: August 4, 2009

Title: DIGITAL FLOWMETER

Case No. IPR2014-01409

DECLARATION OF ANDREW S. BALUCH

1. I, Andrew S. Baluch, resident of Washington, DC, hereby declare as follows:

2. I am an attorney at Foley & Lardner LLP and one of the attorneys for the petitioner in this *inter partes* review.

3. On information and belief, the Exhibits submitted with the petition for the above-referenced *inter partes* review as Exhibits 1001 to 1009, 1013, 1015-1018, 1020-1033, 1035-1045, 1047, 1050, 1052, 1064, and 1065 are true and correct copies of the original documents as shown in the Table below, with the exception that Exhibits 1009, 1013, 1029, 1030, 1032, 1033, 1035 to 1041, 1043, 1044, and 1065 are, on information and belief, true and correct copies of excerpts of the originals.

Ex #	Exhibit Description
1001	U.S. Pat. No. 7,571,062 (“’062 Patent”)
1002	Declaration of Dr. Michael D. Sidman, dated January 31, 2014
1003	U.S. Pat. No. 5,373,745 (“Cage”)
1004	U.S. Pat. No. 2,865,201 (“Roth”)
1005	U.S. Pat. No. RE 31,450 (“Smith”)
1006	U.S. Pat. No. 4,934,196 (“Romano”)

1007	U.S. Pat. No. 4,679,947 (“Miller”)
1008	U.S. Pat. No. 5,009,109 (“Kalotay”)
1009	“How the Micro Motion Mass Flow and Density Sensor Works,” Micro Motion, Inc., 1990 (“How Article”)
1010	Intentionally left blank
1011	Intentionally left blank
1012	Intentionally left blank
1013	Excerpt from Dictionary of Mechanical Engineering, Fourth Edition, Nayler, Butterworth-Heinemann, 1996
1014	Intentionally left blank
1015	U.S. Pat. No. 5,379,649 (“Kalotay ’649”)
1016	U.S. Pat. No. 5,555,190 (“Derby”)
1017	U.S. Pat. No 5,734,112 (“Bose”)
1018	U.S. Pat. No. 4,996,871 (“Romano ’871”)
1019	Intentionally left blank
1020	U.S. Pat. No. 4,872,351 (“Ruesch”)

1021	U.S. Pat. No. 4,823,614 (“Dahlin”)
1022	U.S. Pat. No. 5,143,257 (“Austin”)
1023	U.S. Pat. No. 5,148,945 (“Geatz”)
1024	U.S. Pat. No. 5,224,372 (“Kolpak”)
1025	U.S. Pat. No. 5,317,928 (“Young”)
1026	U.S. Pat. No. 4,733,569 (“Kelsey”)
1027	U.S. Pat. No. 5,050,439 (“Thompson”)
1028	U.S. Pat. No. 5,068,116 (“Gibney”)
1029	“Introduction to Continuous and Digital Control Systems,” Saucedo & Schering, Macmillan, 1968
1030	“Electromechanical Control Systems and Devices,” Canfield, Robert E. Kreiger Publishing Company, Original Edition 1965, Reprint 1977
1031	U.S. Pat. No. 4,524,610 (“Fitzgerald”)
1032	“Integrated Electronics: Analog and Digital Circuits and Systems,” Jacob Millman and Christos Halkias, McGraw-Hill, 1972
1033	“Operational Amplifiers Design and Applications,” Graeme, Tobey and Huelsman, McGraw-Hill, 1971

1034	Intentionally left blank
1035	“Automatic Control Systems,” Third Edition, Benjamin C. Kuo, Prentice-Hall, 1975
1036	“Computer Controlled Systems Theory and Design,” Astrom and Wittenmark, Prentice-Hall 1984
1037	“Digital Control of Dynamic Systems,” Franklin, Powell & Workman, Addison-Wesley Publishing Company, Second Edition, 1990
1038	“Control Sensors and Actuators,” De Silva, Prentice-Hall, 1989
1039	“Digital Signal Processing,” Alan V. Oppenheim, Ronald W. Schafer, Prentice-Hall, January 1975
1040	“Programs for Digital Signal Processing,” IEEE Acoustics, Speech, and Signal Processing Society, John Wiley and Sons, 1979
1041	“The Fourier Transform and its Applications,” Bracewell, McGraw-Hill, Second Edition, 1978
1042	U.S. Pat. No. 4,536,809 (“Sidman”)
1043	Analog Devices Data-Acquisition Databook
1044	“Convert all your synchro channels to digital with a single μ P-based system,” Arthur Berg, Micro Networks, ELECTRONIC DESIGN 25, December 6, 1976
1045	U.S. Pat. No. 4,817,448 (“Hargarten”)

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