Filed on behalf of Invensys Systems, Inc.

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UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

MICRO MOTION, INC.

Petitioner

V.

INVENSYS SYSTEMS, INC.

Patent Owner

Case IPR 2014-00393

U.S. Patent No. 7,571,062

DECLARATION OF DR. JEFFREY S. VIPPERMAN IN SUPPORT OF PATENT OWNER'S RESPONSE UNDER 35 USC §§ 316(a)(8)



I, Jeffrey S. Vipperman, do hereby declare and state, that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code.

Dated: October 10, 2014

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I. BACKGROUND AND QUALIFICATIONS

A. Scope of Work

1. I have been asked by Patent Owner's counsel to analyze claims 1 and 29 of U.S. Patent No. 7,571,062 ("the '062 patent"; Ex. 1001), and submit this Declaration in Support of Patent Owner's Response and Motion for Amendment in the instant proceeding, in rebuttal to the Declaration of Dr. Michael D. Sidman (Ex. 1002). In particular, this declaration sets forth my opinion on the following grounds on which trial was instituted for the '062 patent in this *inter partes* review:

Ground	Description
A	Claims 1 and 29 as anticipated by Romano under 35 U.S.C. § 103

The claims at issue in the ground noted above appear in attached Appendix B.

- 2. The opinions provided are my own and are based on my analysis and work in this case and the education, experience, and skills I have acquired and developed throughout my career.
 - 3. In reaching my conclusions and opinions, I have relied upon my ex
- 4. perience and training, and my review of the evidence produced in this proceeding, and I have considered the documents and materials described in Petitioner's Petition, Patent Owner's Preliminary Response, and the documents and information referenced in this declaration in the process of forming my opinions.



5. For the time I expend on this case, I am currently being compensated at a rate of \$300/hour. My compensation is not in any way dependent on the outcome of the dispute.

B. Expertise and Basis for Opinion

- 6. I am an independent consultant. All of my opinions stated in this declaration are based on my own personal knowledge and professional judgment. In forming my opinions, I have relied on my knowledge and experience in smart materials and systems (transducers, measurements, acoustics, vibrations, electronics, signal processing, and embedded systems); software development practices; digital signal processing and programming, including C/C++ and assembler code programming; and on the documents and information referenced in this declaration. I am over 18 years of age and am competent to testify as to the matters set forth herein.
- 7. Details of my professional qualifications and background are set out in my curriculum vitae, a copy of which is attached as Appendix A. The following provides only a brief overview of some of my experience that is relevant to the matters set forth in this declaration.
- 8. Since 1990, I have designed, developed, and deployed control systems for vibrating or acoustic systems containing electromagnetic and solid state (e.g. piezoceramic) transducers. As such, I have acquired expertise and am an expert in



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