UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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ULTRATEC, INC.
Petitioner

v.

SORENSON IP HOLDINGS, LLC
Patent Owner

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Case IPR2017-01394

_____

Patent No. 9,336,689

DECLARATION OF BENEDICT J. OCCHIOGROSSO IN SUPPORT OF PATENT OWNER'S PRELIMINARY RESPONSE

Declaration of Benedict J. Occhiogrosso

I, Benedict J. Occhiogrosso, declare as follows:

1.	I make this declaration based upon my own personal knowledge and, if called upon to testify, would testify competently to the matters contained herein.

2.	I have been asked to provide technical assistance in the above-captioned *inter partes* review ("IPR") proceeding (Case IPR2017-01394).

3.	This declaration is a statement of my opinions on issues related to the patentability of claims 1-12 and 19 of U.S. Patent No. 9,336,689 (the "'689 Patent") (Ex. 1003).

## I.	Background and Qualifications

4.	My qualifications are stated more fully in my curriculum vitae. Ex. 2002. Here, I provide a brief summary of my qualifications:

5.	I hold a Bachelor of Science Degree in Electrical Engineering as well as a Master of Science Degree in Electrical Engineering, both from the Polytechnic Institute of Brooklyn.

6.	I have authored or co-authored nearly three dozen articles in peer-reviewed journals, conference proceedings, texts, industry trade publications, and monographs. These publications span a range of topics including: Integrated

Voice–Data Communications/Switching, Integrated Packet-Circuit Switching, Voice Digitization, Packet Voice, Indoor Wireless distribution, Disaster Recovery and Business Continuity, Data Center Engineering, Switching Processor Architecture, Telephone and Voice Mail Systems, PBX & LAN switching premises-based systems and related technologies and Internet of Things (IoT).

7.   I have more than 40 years of telecommunications and information technology experience. I am the co-founder and President of DVI Communications Inc., a telecommunications and information technology and business consulting firm. Since the establishment of DVI in 1979, I have planned, designed, implemented, and managed large scale projects involving wired and wireless communications systems, which included transmission of voice and data. Prior to founding DVI and for several years thereafter, I held a Department of Defense security clearance and worked on several classified programs within the defense industry, where I supported the development of several pioneering technologies that have served as the prototypes for many telecommunications and IT systems later utilized in commercial practice.

8.   I have served in numerous leadership positions including Project and Program Manager for both research & development and consulting projects for various organizations including: U.S. Department of Defense's Defense Advanced Research Projects Agency (DARPA); the Defense Communications Agency;

Xerox; United Technologies - Norden Systems; AT&T; Citicorp; Con-Edison and various financial services, healthcare, utility and educational institutions. I also headed an Engineering team to develop a voice mail product, which was successfully integrated and commercially produced with an off-the-shelf PBX manufacturer's product offerings.

9. I have extensive expertise in voice-data video switching, transmission systems deployed in networks, including both circuit switching and packet switching using wireline and wireless distribution methods (including Land Mobile radio, Satellite, microwave, cellular and Wi-Fi). In addition, I have developed various applications systems including voicemail, e-mail, unified messaging, and audio/video recording for a variety of facility types including call-contact centers, data centers, trading floors, and mission-critical communications centers. I have detailed knowledge of Internet Protocol (IP) technology in general and also Voice over Internet Protocol (VoIP). I have extensive expertise in voice digitization, buffering, relay and delay techniques, as well as digital signal processing of voice signals. At present, my primary responsibilities encompass strategic planning and systems design of client IT Infrastructures and program management for major projects undertaken by DVI.

10. I have also developed technical expertise with regard to telecommunication applications utilizing speech recognition, including call center

and interactive voice response applications. I have supported numerous enterprise and institutional clients in the design of their call centers. My experience in this field includes the use of both speaker-independent and speaker-dependent speech recognition algorithms in different applications utilizing isolated speech recognition and continuous speech recognition.

11.   I have also worked on behalf of the Metropolitan Transportation Authority (MTA) on relay services and assistive technologies. For example, I worked on voice processing for captioning of live meeting proceedings, which are then made available for the deaf and hard of hearing. I have also worked on captioning or transcription of previously recorded information for compliance and record-keeping purposes. Additionally, I have designed a telecommunication relay service for multilingual translation for the United Nations, and have also deployed audio conferencing systems with transcription services for various member firms in the financial services community supporting multiple applications. (e.g., investor conference, morning call, and alert purposes).

12.   As mentioned above, on behalf of the United Nations, I designed a telecommunications relay service for multilingual translation. The project included design of a system that allowed the audio from a representative to be routed to multiple translators who could repeat what was being said in other languages. The translated speech channels could then be transmitted to and

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