UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE PATENT TRIAL AND APPEAL BOARD

In Re:	U.S. Patent No. 9,104,842 B2	:	Attorney Docket No. 081841.0119
Inventors:	Moskowitz, Scott A.;	:	
Filed:	Aug. 24, 2007	:	
Issued:	Aug. 11, 2015	:	IPR No.: Unassigned
Assignee:	Wistaria Trading Ltd.	:	
Title:	Data Protection Method and Device	:	

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Submitted Electronically via the Patent Trial and Appeal Board End to End System

DECLARATION OF DR. VIJAY K. MADISETTI

I, Vijay K. Madisetti, hereby declare the following:

I. BACKGROUND AND EDUCATION

1. My name is Vijay Madisetti, and I am a Professor of Electrical and Computer Engineering at Georgia Institute of Technology ("Georgia Tech") in Atlanta, GA.

2. I received a Bachelor of Technology in electronics and Electrical Communications Engineering from the Indian Institute of Technology (IIT) in 1984. I received my Ph.D. in Electrical Engineering and Computer Sciences (EECS) from the University of California, Berkeley in 1989. I am currently a tenured full Professor at Georgia Institute of Technology, and I have been on the faculty of Georgia Institute of Technology since 1989. I have authored or co-authored over 100 reference articles in the area of electrical engineering. I have also authored, co-authored, or edited several books in the areas of electrical engineering, communications, signal processing, communications, and computer engineering, including *VLSI Digital Signal Processors* (1995) and *The Digital Signal Processing Handbook* (First & Second Editions) (1998, 2012), and recently, *Cloud Computing* (2013). Although I discuss my expert qualifications in more detail below, I also attach as Ex. 1003 a recent and complete *curriculum vitae*, which details my educational and professional background and includes a listing of most of my publications.

3. I have been involved in research and technology in the area of distributed computer and information systems since the late 1980s, and my work in this area has focused on secure and efficient distribution of information over networks, synchronization of updates across a distributed network, and multiprocessing systems and tools.

4. I have been extensively involved in the activities of one of the premier SSOs in the world, the IEEE, since the 1980s, and I have participated in the development of standards for hardware design and description languages, such as VHDL, used in design of computer chips – IEEE 1076.6. This standard is now used worldwide in design of advanced computer chips and associated design automation tools for VLSI. I have also taught courses and authored papers and books on how to comply with these standards in terms of writing code for design of chipsets and their software.

5. The Internet Engineering Task Force (IETF) (https://www.ietf.org/how/wgs/) is the premier SSO in the area of computer networks and associated technologies, and creates a number of working groups (WG) that focus on specific deliverables (guidelines, standards specifications, etc.) and focus on creating and improving existing network protocols. I have contributed draft proposals for such improvement to standardized protocols over the past several years that include contributed to mobile wireless, stream controlled transport

protocols, networking, encryption and voice/video transmission. These proposals include:

6. IETF Internet Draft (Nov 2002): Enhancements to ECRTP with Applications to Robust Header Compression for Wireless. URL https://tools.ietf.org/html/draft-madisetti-rao-suresh-rohc-00

7. IETF Internet Draft (May 2002): Voice & Video over Mobile IP Networks. URL https://tools.ietf.org/html/draft-madisetti-argyriou-voice-video-mip-00

8. IETF Internet Draft (July 2002): A Transport Layer Technology for Improving QoS of Networked Multimedia Applications. URL https://tools.ietf.org/html/draft-madisetti-argyriou-voice-video-mip-00

9. I have developed speech and video codecs that comply with 3GPP standards, such as a Wideband AMR and the AMR. These tasks involved developing software to implement the associated 3GPP standards and also tests to verify compliance to these standards. The families of these 3GPP standards include TS 26.071 – TS 26.204, covering over a hundred standard specification documents. The software that I developed that complies with these standards is now available commercial on millions of 3G and 4G handsets worldwide. My codecs were tested on live 3G and 4G networks in Europe and USA since the early 2004 – 2006 timeframe.

10. I have also developed several speech and VOIP codecs that conform with the ITU (International Telecommunications Union) standards G.723.1, G.729 and Echo Cancellers and Encryption Softwareconforming with the ITU G.168 standards (See https://www.itu.int/rec/T-REC-G.723/en)

11. The software and code I have developed and tested based on technologies essential to the ITU standards are now used by one of the leading suppliers of VOIP/Internet telephones in the world. This software is also part of commercially released soft switches for internet telephony used extensively in Asia. See for example URL https://www.thehindubusinessline.com/bline/2002/04/09/stories/2002040900660700.htm

12. As part of earlier litigation-related consulting work, I tested compliance of several smartphones (3G and 4G) in their use of standards-essential patents (SEP) related to 3GPP and 3GPP2 standards, primarily in the area HARQ and encryption. This work involved use of commercial 3GPP test equipment that included base stations and UEs to evaluate compliance to the standard and further opine on the issue of alternatives.

13. Further, as stated above, I serve as the official representative of Georgia Tech to ETSI. In that role, I manage Georgia Tech's relationship with ETSI and am responsible for representing Georgia Tech's interests as they relate to ETSI,

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