IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent of:	Asghari-Kamrani, et al.
U.S. Patent No.:	8,266,432
Issue Date:	September 11, 2012
Appl. Serial No.:	12/210,926
Filing Date:	September 15, 2008
Title:	CENTRALIZED IDENTIFICATION AND AUTHENTICATION SYSTEM AND METHOD

DECLARATION OF DR. ALFRED C. WEAVER

I, Dr. Alfred C. Weaver, do hereby declare:

1. I am making this declaration at the request of Patent Owner Nader Asghari-Kamrani and Kamran Asghari-Kamrani in the matter of CBM2016-00063 and CBM2016-00064, both of which are directed to US Patent 8,266,432.

I. QUALIFICATIONS AND ENGAGEMENT

2. I earned a Bachelor of Science in Engineering Science in 1971 from the University of Tennessee. I also earned a Master of Science in Computer Science from the University of Illinois at Urbana-Champaign in 1973. Thereafter, I earned a Ph.D. in Computer Science at the University of Illinois at Urbana-Champaign in 1976.

3. I am currently a Professor of Computer Science and the Associate Chair of the Department of Computer Science at the University of Virginia

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("UVa"). I have been employed at UVa continuously since 1977. Over the period of my employment at UVa, I have taught more than 25 different courses, including electronic commerce, operating systems, computer networks, and various programming courses. Moreover, I have been the graduate advisor for 69 Ph.D. and master's students, all in Computer Science.

4. In addition to my teaching duties, I am also the Founding Director of UVa's Applied Research Institute, a group of faculty engaged in research areas related to national security and funded by both government and industry. To date, I have published 16 books and book chapters, 30 refereed journal articles, 139 refereed conference publications, and 80 technical reports. I currently serve on the Advisory Council of the Editorial Board of IEEE *Computer* magazine.

5. As a researcher, I have served as Principal Investigator or co-Principal Investigator of 130+ research projects funded by the federal government and private industry. Recent research projects include 3D printing, automated analysis of published scientific literature, secure mobile computing, crowdsourcing, data integrity, and trustworthy computing.

6. I have founded five companies. One of these, Network Xpress, Inc., was a spin-off from research work in computer networks funded by the U. S. Navy at UVa. At its peak, another company, Reliacast, Inc., employed 90 people and

developed software for secure streaming of multimedia. Reliacast was ultimately sold to Comcast.

7. I have served as an expert witness in 20+ patent infringement cases since 1988. Six of those cases have gone to trial. In the past four years I have testified in court in two cases:

> *VS Technologies v. Twitter, Inc.*, No. 2:11-cv-00043-HCM-TEM in the United States District Court for the Eastern District of Virginia (Norfolk). In that case, I testified on behalf of Twitter.
>
> *ePlus, Inc. v. Lawson Software, Inc.*, No. 3:09-cv-00620-REP in the United States District Court for the Eastern District of Virginia (Richmond). In that case, I testified on behalf of ePlus.

8. A complete list of cases in which I have testified at deposition, hearing or trial in the past 4 years is attached hereto as Exhibit 2012.

9. I have authored or co-authored 16 books or book chapters in the computer science field and have authored or co-authored over 169 refereed journal and conference papers on various topics related to computer science, computer systems, computer networks, search agents, databases, the Internet and e-commerce, among other topics. I am a member of the editorial board of the IEEE *Computer* magazine.

10. I have presented papers at numerous conferences and have served as Program Chair or Technical Program Chair of a number of conferences around the

world. For example, I was the Keynote Speaker at the International Workshop on Privacy, Security, and Trust for Mobile Devices (MobiPST'11), in Maui, Hawaii, in July 2011 on the topic of "Providing Privacy and Security for Mobile Devices." I was the Keynote Speaker at the IEEE International Conference on Industrial Technology (ICIT'05), in Hong Kong, in December 2005 on the topic of "Achieving Data Privacy and Security Using Web Services." I was the Keynote Speaker at the IEEE International Conference on Emerging Technologies and Factory Automation (ETFA'05), in Catania, Sicily, Italy, in September 2005 on the topic of "A Security Architecture for Distributed Data Security."

11. With my co-authors Sam Dwyer and Kristen Hughes, I wrote chapter two entitled "Health Insurance Accountability and Portability Act" in the book **Security Issues in the Digital Medical Enterprise**, published by the Society for Computer Applications in Radiology in 2004. I wrote the paper "Secure Sockets Layer" in *Computer* in April 2006. With my co-author Andrew Jurik, I wrote "Securing Mobile Devices with Biotelemetry," presented at the International Workshop on Privacy, Security, and Trust in Mobile and Wireless Systems (MobiPST'11), in Maui, Hawaii, in July, 2011. I presented the NATO Fellowship Lecture at Bogazici University, in Istanbul, Turkey, in May 2000 on the topic of "Internet Privacy and Security." With my master's student Andrew Snyder, I wrote "The e-Logistics of Securing Distributed Medical Data," presented at the

IEEE International Conference on Industrial Informatics, Banff, Alberta, Canada, in August 2003. I supervised Andrew Snyder's master's thesis on the topic of "Performance Measurement and Workflow Impact of Securing Medical Data Using HIPAA Compliant Encryption in a .NET Environment," in August 2003.

12. I am a named inventor on U.S. patent 4,217,658 that resulted from my Ph.D. research at the University of Illinois.

13. I am a Fellow of the IEEE, an honor awarded to less than two percent of the IEEE membership.

14. I have been an invited guest lecturer at numerous meetings sponsored by various corporations around the world. For example, I spoke on "Reliable Multicast and Reliable Group Management" for a meeting held at Sun Microsystems in Palo Alto, California in July, 1999. I gave a presentation entitled "Xpress Transport Protocol" at a meeting sponsored by General Electric Research and Development Laboratory, held in Schenectady, New York, in December, 1996. I was an invited speaker on the topic of "Medical Data Privacy and Security" at the Microsoft Healthcare Users' Group meeting in Redmond, Washington in 2006.

15. I was the Lucian Carr III Professor of Engineering and Applied Science at the University of Virginia from 2002-2004. I was a member of the Provost's Promotion and Tenure Committee of the University of Virginia during 2003-2006. I served as the Chairman of the Department of Computer Science

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