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UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

APPLE INC. Petitioner

v.

VIRNETX INC. Patent Owner

Case IPR2015-00810 Patent 8,868,705

Declaration of Fabian Monrose, Ph.D.

Table of Contents

I.	Introduction				
II.	Resources Consulted5				
III.	Background and Qualifications				
IV.	Level of Ordinary Skill10				
V.	Clair	n Terms11			
	A.	"Secure Domain Name" (Claims 3, 10, and 25)			
	B.	 "Encrypted Communications Channel" Phrases (Claims 1, 2, 4 7, 9, 11-13, 18, 21, 22, and 26-29) 			
	C.	"Provisioning Information" (Claims 1, 2, 9, and 21)14			
	D.	Othe	r Terms15		
VI.	Beser and RFC 24011				
	A. Beser's Disclosure				
	B.	Clair	ns 1 and 2121		
		1.	"Intercepting From the Client Device a Request to Look Up an Internet Protocol (IP) Address Corresponding to a Domain Name Associated With the Target Device"		
			a) The Alleged Request in <i>Beser</i> Is Not a "Request to Look Up an Internet Protocol (IP) Address"22		
			b) The Alleged Request in <i>Beser</i> Is Not "Intercept[ed]"24		
		2.	<i>Beser</i> and RFC 2401 Would Not Have Been Combined as the Petition Suggests		
	C.	C. Dependent Claims			
		1.	Dependent Claims 3, 10, and 25		
		2.	Dependent Claims 14 and 31		

	3.	Dependent Claims 18-20 and 22-24	33
VII.	Conclusion		34

I, FABIAN MONROSE, declare as follows:

I. Introduction

I have been retained by VirnetX Inc. ("VirnetX") for this *inter partes* 1. review proceeding. I understand that this proceeding involves U.S. Patent No. 8,868,705 ("the '705 patent"). I understand the '705 patent is assigned to VirnetX and that it is part of a family of patents that stems from U.S. provisional application nos. 60/106,261 ("the '261 application"), filed on October 30, 1998, and 60/137,704 ("the '704 application"), filed on June 7, 1999. I understand that the '705 patent is a continuation of U.S. application no. 13/049,552 filed March 16, 2011 ("the '552 application"), which is a continuation of U.S. application no. 11/840,560 filed August 17, 2007 (now U.S. Patent No. 7,921,211, "the '211 patent"), which is a continuation of U.S. application no. 10/714,849 filed November 18, 2003 (now U.S. Patent No. 7,418,504 ("the '504 patent), which is a continuation of U.S. application no. 09/558,210 filed April 26, 2000 ("the '210 application," abandoned). And I understand the '210 application is a continuationin-part of U.S. application no. 09/504,783 filed February 15, 2000 (now U.S. Patent 6,502,135, "the '135 patent"), and that the '135 patent is a continuation-inpart of U.S. application no. 09/429,643 (now U.S. Patent No. 7,010,604) filed October 29, 1999, which claims priority to the '261 and '704 applications.

II. Resources Consulted

2. I have reviewed the '705 patent, including claims 1-34. I have also reviewed the Petition for *Inter Partes* Review (Paper No. 1) filed with the U.S. Patent and Trademark Office ("Office") by Apple Inc. on March 2, 2015 (Paper No. 1, the "Petition"). I have also reviewed the Patent Trial and Appeal Board's ("Board") decision to institute *inter partes* review (Paper No. 8, the "Decision") of September 11, 2015.

3. I understand that in this proceeding the Board instituted review of the '705 patent on two grounds: (1) obviousness of claims 1-4, 6-10, 12-26, and 28-34 over *Beser* and RFC 2401; and (2) obviousness of claims 5, 11, and 27 over *Beser*, RFC 2401, and *Brand*. I have reviewed the exhibits and other documentation supporting the Petition that are relevant to the Decision and the instituted grounds, and any other material that I reference in this declaration.

III. Background and Qualifications

4. I have a great deal of experience and familiarity with computer and network security, and have been working in this field since 1993 when I entered the Ph.D. program at New York University.

5. I am currently a Professor of Computer Science at the University of North Carolina at Chapel Hill. I also hold an appointment as the Director of Computer and Information Security at the Renaissance Computing Institute

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