

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re *Inter Partes* Review of:                    )  
U.S. Patent No. 9,445,251                        )  
Issued: September 13, 2016                    )  
Application No.: 14/633,804                    )

For: **Method to Provide Ad Hoc and Password Protected Digital and Voice  
Networks**

**FILED VIA E2E**

**DECLARATION OF DAVID HILLIARD WILLIAMS IN SUPPORT OF  
PETITION FOR *INTER PARTES* REVIEW OF U.S. PATENT NO. 9,445,251**

Apple Inc. Exhibit 1003

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## EXHIBIT LIST

Exhibit No.	Description
1001	U.S. Patent No. 9,445,251 B2 to Beyer, Jr. <i>et al.</i> (“251 patent”)
1002	Prosecution History of U.S. Patent No. 9,445,251 B2 (Application No. 14/633,804)
1003	Declaration of David Hilliard Williams (“Williams Dec.”)
1004	<i>Curriculum Vitae</i> of David Hilliard Williams
1005	U.S. Patent No. 6,366,782 B1 to Fumarolo <i>et al.</i> (“Fumarolo-782”)
1006	U.S. Patent No. 6,204,844 B1 to Fumarolo <i>et al.</i> (“Fumarolo-844”)
1007	U.S. Publication No. 2002/0173906 A1 to Muramatsu (“Muramatsu”)
1008	U.S. Publication No. 2002/0027901 to Liu <i>et al.</i> (“Liu”)
1009	Intl. Publication No. WO 02/17567 A2 to Spaargaren (“Spaargaren”)
1010	Plaintiff’s Original Complaint for Patent Infringement, <i>AGIS Software Development LLC v. Huawei Device USA Inc., et al.</i> , Case No. 2:17-cv-00513 (TXED), filed June 21, 2017. (“Infringement Complaint”)
1011	U.S. Patent No. 7,031,728 to Beyer, Jr., issued April 18, 2006 (“728 Patent”)
1012	U.S. Patent No. 7,630,724 to Beyer, Jr., <i>et al.</i> , issued December 8, 2009 (“724 Patent”)
1013	911 and E911 Services, Federal Communications Commission, <a href="http://www.fcc.gov/e911">www.fcc.gov/e911</a> (last visited May 7, 2018)
1014	Fact Sheet, FCC Wireless 911 Requirements (January 2001), available at <a href="https://transition.fcc.gov/pshs/services/911-services/enhanced911/archives/factsheet_requirements_012001.pdf">https://transition.fcc.gov/pshs/services/911-services/enhanced911/archives/factsheet_requirements_012001.pdf</a>

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1015	Jock Christie, <i>et al.</i> , <i>Development and Deployment of GPS Wireless Devices for E911 and Location Based Services</i> (Position, Location, and Navigation Symposium, 2002) (“Christie”)
1016	Dale N. Hatfield, <i>A Report on Technical and Operational Issues Impacting The Provision of Wireless Enhanced 911 Services</i> , Federal Communications Commission (2002) (“Hatfield”)
1017	Charles E. Perkins, “Ad Hoc Networking.” Nokia Research Center (November 28, 2000) (“Perkins”)
1018	Duncan Scott Sharp, <i>Adapting Ad Hoc Network Concepts to Land Mobile Radio Systems</i> (1972 Ph.D. dissertation, University of Alberta) (on file with Simon Fraser University, December 2002) (“Duncan”)
1019	Madhavi W. Subbarao, <i>Mobile Ad Hoc Data Networks for Emergency Preparedness Telecommunications - Dynamic Power-Conscious Routing Concepts</i> (Submitted as an interim project for Contract Number DNCR086200 to the National Communications Systems, February 1, 2000) (“Subbarao”)
1020	<i>Intentionally Left Blank</i>
1021	McKinsey & Company, <i>The McKinsey Report : FDNY 9/11 Response</i> (2002) (“The McKinsey Report”)
1022	William K. Rashbaum, <i>Report on 9/11 Finds Flaws In Response of Police Dept.</i> , N.Y. Times (July 27, 2002), available at <a href="http://www.nytimes.com/2002/07/27/nyregion/report-on-9-11-finds-flaws-in-response-of-police-dept.html?mcubz=0">http://www.nytimes.com/2002/07/27/nyregion/report-on-9-11-finds-flaws-in-response-of-police-dept.html?mcubz=0</a>
1023	Fred Durso, Jr., <i>A Decade of Difference</i> , NFPA Journal (Sept. 1, 2011), available at <a href="http://www.nfpa.org/news-and-research/publications/nfpa-journal/2011/september-october-2011/features/a-decade-of-difference">http://www.nfpa.org/news-and-research/publications/nfpa-journal/2011/september-october-2011/features/a-decade-of-difference</a>
1024	Rick Rotondo, “Locate-Track-Extract; Wireless Mesh Networking Allows Commanders to Keep Track of Firefighters at an Incident Scene,” <i>Mission Critical Communications</i> , March 2004
1025	U.S. Patent Publication No. 2003/0100326 to Grube <i>et al.</i> , published May 29, 2003 (“Grube”)

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