UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

APPLE INC., FACEBOOK, INC., and WHATSAPP, INC.,
Petitioner

v.

UNILOC USA, INC. and UNILOC LUXEMBOURG S.A.
Patent Owner

Case IPR2017-00222[1]
Patent 8,243,723

PETITIONER APPLE INC.'S
REPLY TO PATENT OWNER RESPONSE

Mail Stop "PATENT BOARD"
Patent Trial and Appeal Board
U.S. Patent & Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

[1] Facebook, Inc. and WhatsApp, Inc., who filed a petition in IPR2017-01635, have been joined as petitioners in this proceeding.

TABLE OF CONTENTS

PETITIONER'S UPDATED EXHIBIT LIST

Exhibit	Description
1001	Rojas, U.S. Patent No. 8,243,723 (earliest priority date December 18, 2003; filed March 4, 2009; issued August 14, 2012).
1002	File History for U.S. Patent No. 8,243,723.
1003	Declaration of Leonard J. Forys, Ph.D.
1004	*Curriculum Vitae* of Leonard J. Forys, Ph.D.
1005	Vuori, U.S. Patent Application Publication No. 2002/0146097 (filed July 23, 2001, published October 10, 2002).
1006	SMSS, Universal Mobile Telecommunications System (UTMS); Technical realization of the Short Message Service (SMS) (3G TS 23.040 version 3.5.0 Release 1999) (published on August 16, 2000).
1007	Holtzberg, U.S. Patent No. 6,625,261 (filed December 20, 2000, issued September 23, 2003).
1008	Väänänen, U.S. Patent No. 7,218,919 (filed August 8, 2001, issued May 15, 2007).
1009	Dahod et al., U.S. Patent Application Publication No. 2004/0022208 (filed on August 1, 2002, published February 5, 2004).
1010	Hogan et al., U.S. Patent No. 5,619,554 (filed June 8, 1994, issued April 8, 1997).
1011	Logan et al., U.S. Patent No. 5,732,216 (filed October 2, 1996, issued March 24, 1998).
1012	Peersman et al., The Global System for Mobile Communications Short Message Service, IEEE Personal Communications (June 2000).
1013	SMS Forum, SMPP v3.4 Protocol Implementation guide for GSM / UMTS, Version 1.0 (May 30, 2002).

Exhibit	Description
1014	Clarke et al., Experiments with packet switching of voice traffic, IEE Proceedings G - Electronic Circuits and Systems, Vol.130, Pt. G, No. 4, pp. 105-13 (August 1983).
1015	Oouchi et al., Study on Appropriate Voice Data Length of IP Packets for VoIP Network Adjustment, Proceedings of the IEEE Global Telecommunications Conference (GLOBECOM) 2002, V. 2, Taipei, Taiwan, 2002, pp. 1618–1622.
1016	Lotito et al., U.S. Patent No. 4,625,081 (filed November 30, 1982, issued November 25, 1986).
1017	Pershan, U.S. Patent No. 5,260,986 (filed April 23, 1991, issued November 9, 1993).
1018	Old Version of AOL Instant Messenger 2.1 Download, retrieved from http://www.oldapps.com/aim.php?old_aim=4#screenshots.
1019	Malik, Patent Publication No. 2003/0219104 (filed August 19, 2002, published November 27, 2003).
1020	Staack et al., WO Patent Publication No. 02/07396 (filed July 13, 2000, published January 24, 2002).
1021	Lerner et al., U.S. Patent No. 6,192,395 (filed December 17, 1999, issued February 20, 2001).
1022	Stubbs, WO Patent Publication No. 99/63773 (filed June 3, 1999, published December 9, 1999).
1023	Abburi, U.S. Patent Application Publication No. 2003/0147512 (filed on February 1, 2002, published August 7, 2003).
1024	File History for U.S. Patent No. 7,535,890.

Exhibit	Description
1025	Day et al., A Model for Presence and Instant Messaging, Network Working Group, RFC 2778, pp. 1-17 (February 2000).
1026	International Telecommunication Union, General Aspects of Digital Transmission Systems, Terminal Equipments, Pulse Code Modulation (PCM) of Voice Frequencies, ITU-T Recommendation G.711., pp. 1-10 (ITU 1993).
1027	Gayomali, C., "The text message turns 20: A brief history of SMS," *The Week*, December 3, 2012, retrieved from http://www.theweek.com/articles/469869/text-message-turns-20-brief-history-sms.
1028	Supplemental Declaration of Leonard J. Forys, Ph.D.
1029	Deposition Transcript of William C. Easttom, II

DOCKET ALARM

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts

Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research

With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips

Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS
Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS
Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS
Sync your system to PACER to automate legal marketing.