

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

TARGET CORPORATION

Petitioner,

v.

HEADWATER RESEARCH LLC

Patent Owner.

Case No. IPR2026-00153

U.S. Patent No. 10,321,320

PETITIONER'S UPDATED EXHIBIT LIST

EXHIBITS

- EX-1001 U.S. Patent No. 10,321,320 (“’320 patent” or “’320Pat”)
- EX-1002 File History of the ’320 patent (“’320FH”)
- EX-1003 Declaration and Curriculum Vitae of Dr. Patrick Traynor (“Traynor”)
- EX-1004 3GPP TS 23.140 v6.9.0 (2005-03); 3rd Generation Partnership Project; Technical Specification Group Terminals; Multimedia Messaging Service (MMS); Functional Description; Stage 2 (“TS-23.140”)
- EX-1005 U.S. Patent Pub. No. 2006/0190720 to Ozaki et al. (“Ozaki”)
- EX-1006 WO 2008/048075 to Lee et al. (“Lee”)
- EX-1007 WO 2006/077283 to Houghton et al. (“Houghton”)
- EX-1008 U.S. Patent Pub. No. 2009/0158397 to Herzog et al. (“Herzog”)
- EX-1009 U.S. Patent No. 7,925,717 to Chou et al. (“Chou”)
- EX-1010 Open Mobile Alliance; Multimedia Messaging Service Architecture Overview (MMSARCH) specification, July 15, 2004, available at https://www.openmobilealliance.org/release/MMS/V1_1-20040715-A/OMA-WAP-MMS-ARCHV1_1-20040715-A.pdf
- EX-1011 Open Mobile Alliance; OMA-ERELED-MMS-v1_2-20030923-C, Enabler Release Definition for MMS Version 1.2, Sept. 23, 2003, available at https://www.openmobilealliance.org/release/MMS/V1_2-20030923-C/OMA-ERELED-MMS-V1_2-20030923-C.pdf

- EX-1012 U.S. Patent No. 7,509,487 to Lu et al. (“Lu”)
- EX-1013 Technical Specification Group Services and System Aspects Meeting #19, TSGS#19(03)0167, European Telecommunications Standards Institute February 2003, Mar. 12, 2003, available at https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_19/Docs/PDF/SP-030167.pdf
- EX-1014 U.S. Patent Pub. No. 2005/0207379 to Shen et al. (“Shen”)
- EX-1015 RESERVED
- EX-1016 Declaration of Friedhelm Rodermund
- EX-1017 U.S. Patent Pub. No. 2009/0240807 to Munson et al. (“Munson”)
- EX-1018 EP Patent Application EP1853044 to Shenfield (“Shenfield”)
- EX-1019 U.S. Patent No. 7,082,615 to Ellison et al. (“Ellison”)
- EX-1020 RESERVED
- EX-1021 U.S. Patent Pub. No. 2008/0162637 to Adamczyk et al. (“Adamczyk”)
- EX-1022 Dismissal with Prejudice, Headwater Research LLC v. Samsung Electronics Co., Case No. 2:23-cv-00103 (E.D. Tex., May 1, 2025), ECF No. 438

- EX-1023 Claim Construction Order, Headwater Research LLC v. Samsung Electronics Co., Case No. 2:23-cv-00103 (E.D. Tex., Aug. 22, 2024), ECF No. 118
- EX-1024 Gang Lu, et al., Heading for Multimedia Message Service in 3G, 6th IEE International Conference on 3G and Beyond, Washington, D.C., USA, Nov. 7-9, 2005
- EX-1025 RFC 4355, IANA Registration for Enumservices Email, Fax, MMS, EMS, and SMS (Jan. 2006)
- EX-1026 Friedhelm Rodermund, A Picture Speaks a Thousand Words – From SMS to MMS, in Business Briefing: Wireless Technology (2003)
- EX-1027 IETF RFC 793, Transmission Control Protocol (Sept. 1981), available at <https://www.ietf.org/rfc/rfc793.txt>
- EX-1028 The TLS Protocol Version v 1.0 (Jan. 1999), available at <https://datatracker.ietf.org/doc/html/rfc2246>
- EX-1029 Complaint for Patent Infringement, Headwater Research LLC v. Samsung Electronics Co., Case No. 2:23-cv-00103 (E.D. Tex. Mar. 10, 2023), ECF No. 1
- EX-1030 Roger M. Needham & Michael D. Schroeder, Using Encryption for Authentication in Large Networks of Computers, ACM, Vol. 21, No. 12 (Dec. 1978) (“Needham”)
- EX-1031 Michael D. Schroeder & Jerome H. Saltzer, A Hardware Architecture for Implementing Protection Rings ACM, Vol. 15, No. 3 (Mar. 1972) (“Schroeder”)
- EX-1032 Jerome H. Saltzer & Michael D. Schroeder, The Protection of Information in Computer Systems IEEE Proceedings, Vol. 63, No. 9 (Sept. 1975) (“Saltzer”)

- EX-1033 Bo Li et al., Symbian OS platform security model, in Login Magazine (Aug. 2010) available at <https://www.usenix.org/system/files/login/articles/73507-li.pdf> (“Li”)
- EX-1034 Philip Zimmermann, “Pretty Good Privacy: RSA Public Key Cryptography for the Masses,” PGP User’s Guide, Version 1.0, (June 1991), available at <https://www.techinsider.org/freesoftware/research/acrobat/910605.pdf> (“Zimmermann”)
- EX-1035 B. Ramsdell, S/MIME Version 3 Message Specification, IETF RFC 2633, (June 1999), available at <https://data-tracker.ietf.org/doc/html/rfc2633> (“Ramsdell”)
- EX-1036 Miraj E. Mostafa, Transporting data between wireless applications using a messaging system—MMS (Wireless Comms. and Mobile Computing (July 7, 2006) (“Mostafa”)
- EX-1037 U.S. Patent Pub. No. 2008/0243999 to Pazhyannur et al. (“Pazhyannur”)
- EX-1038 U.S. Patent Pub. No. 2008/0215883 to Fok et al. (“Fok”)
- EX-1039 U.S. Patent Pub. No. 2003/0126282 to Sarkar et al. (“Sarkar”)
- EX-1040 U.S. Patent Pub. No. 2007/0037610 to Logan (“Logan”)
- EX-1041 U.S. Patent Pub. No. 2005/0091380 to Gonen et al. (“Gonen”)
- EX-1042 U.S. Patent Pub. No. 2004/0258063 to Raith et al. (“Raith”)

- EX-1043 U.S. Patent Pub. No. 2004/0085894 to Wang et al.
("Wang")
- EX-1044 U.S. Patent No. 6,094,424 to Kalmanek et al. ("Kalmanek")
- EX-1045 Simon Higginson, Platform Security Concepts, in SYMBIAN OS PLATFORM SECURITY: SOFTWARE DEVELOPMENT USING THE SYMBIAN OS SECURITY ARCHITECTURE, 17, 17-41 (Craig Heath ed., 2006)
("Higginson")
- EX-1046 U.S. Patent Pub. No. 2003/0193967 to Fenton et al.
("Fenton")
- EX-1047 U.S. Patent Pub. No. 2004/0111476 to Trossen et al.
("Trossen")
- EX-1048 U.S. Patent Pub. No. 2005/0282531 to Andreasson et al.
("Andreasson")
- EX-1049 U.S. Patent No. 9,615,192 to Raleigh ("192 patent" or "192Pat")
- EX-1050 Stipulation Letter, dated January 2, 2025

Respectfully submitted,

Dated January 5, 2026

/Karan Jhurani/

Michael Hawkins, Reg. No. 57,867

Karan Jhurani, Reg. No. 71,777

Fish & Richardson P.C.

60 South Sixth Street, Suite 3200

Minneapolis, MN 55402

T: 202-783-5070

F: 877-769-7945

Attorneys for Petitioner

CERTIFICATE OF SERVICE

Pursuant to 37 CFR §§ 42.6(e)(4)(i) et seq. and 42.105(b), the under-signed certifies that on January 5, 2026, a complete and entire copy of Petitioner's Updated Exhibit List and Exhibit 1050 were provided by Federal Express, to the Patent Owner, by serving the correspondence address of record as follows:

Headwater Research LLC
C/O Farjami & Farjami LLP
26522 La Alameda Ave., Suite 360
Mission Viejo, CA 92691

/Anastasia Renard/
Anastasia Renard
Fish & Richardson P.C.
60 South Sixth Street, Suite 3200
Minneapolis, MN 55402
renard@fr.com