

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

APPLE INC.,
Petitioner

v.

CARDWARE INC.,
Patent Owner

Case No. IPR2025-01147
Patent No. 10,628,820

PETITIONER'S UPDATED EXHIBIT LIST

APPENDIX OF EXHIBITS

Exhibit 1001	U.S. Patent No. 10,628,820 (“’820 Patent”)
Exhibit 1002	File History of the ’820 Patent (“’820 File History”)
Exhibit 1003	Declaration of Dr. Clifford Neuman
Exhibit 1004	U.S. Patent Publication No. 2013/0262317 to Collinge et al. (“Collinge”)
Exhibit 1005	U.S. Provisional Patent Application No 61/619,095 to Collinge et al. (“’095 Provisional”)
Exhibit 1006	U.S. Provisional Patent Application No 61/635,248 to Collinge et al. (“’248 Provisional”)
Exhibit 1007	U.S. Provisional Patent Application No 61/735,383 to Collinge et al. (“’383 Provisional”)
Exhibit 1008	U.S. Provisional Patent Application No 61/762,098 to Collinge et al. (“’098 Provisional”)
Exhibit 1009	U.S. Patent Publication No. 2006/0122931 to Walker et al. (“Walker”)
Exhibit 1010	U.S. Patent Publication No. 2007/0208671 to Brown et al. (“Brown”)
Exhibit 1011	U.S. Patent Publication No. 2007/0055630 to Gauthier et al (“Gauthier”)
Exhibit 1012	U.S Patent Publication No. 2012/0143754 to Patel (“Patel”)
Exhibit 1013	U.S. Patent Publication No. 2010/0125509 to Kranzley et al. (“Kranzley”)
Exhibit 1014	U.S. Patent Publication No. 2013/0068366 to Eng (“Eng”)
Exhibit 1015	U.S. Patent No. 8,103,588 B2 to Patterson (“Patterson”)
Exhibit 1016	“Computer,” MERRIAM-WEBSTER DICTIONARY (1997)
Exhibit 1017	<i>This Month in History: The First Credit Card</i> , BANKER & TRADESMAN (Sept 25, 2022), https://bankerandtradesman.com/this-month-in-history-the-first-credit-card/ (“Banker & Tradesman”)
Exhibit 1018	<i>Bank Card catalog: Bank Card: Debit Card: Bank of America</i> , COLNECT https://colnect.com/en/bank_cards/bank_card/25144-Bank_of_America-Bank_of_America-United_States_of_America (“Colnect”)
Exhibit 1019	U.S. Patent Publication No. 2011/0140841 to Bona (“Bona”)
Exhibit 1020	IBM, <i>The Magnetic Stripe</i> , IBM, https://www.ibm.com/history/magnetic-stripe . (“IBM”)

Exhibit 1021	Vedat Coskun, Near Field Communication: Theory to Practice (John Wiley & Sons, 1st ed. 2012) (“ <i>Coskun</i> ”)
Exhibit 1022	MagTek, Magnetic Stripe Card Standards, (MagTek Inc. eds., 2011) (“ <i>MagTek</i> ”)
Exhibit 1023	EMVCo, LLC, EMV Integrated Circuit Card Specifications for Payment Systems: Book 2 – Security and Key Management (EMVCo, LLC eds., Version 4.3 2011) (“ <i>EMV</i> ”)
Exhibit 1024	Klaus Finkenzeller, RFID Handbook (John Wiley & Sons, 3rd ed. 2010) (“ <i>Finkenzeller</i> ”)
Exhibit 1025	MasterCard, <i>MasterCard PayPass™ in Action</i> , MASTERCARD (Jun. 11, 5:35 PM), https://www.mastercard.com/us/company/en/ourbusiness/paypass_in_action.html#:~:text=MasterCard%20PayPass%E2%84%A2%20in%20Action&text=Developed%20to%20replace%20the%20need,the%20way%20they%20view%20cash. (“ <i>PayPass</i> ”)
Exhibit 1026	Smart Card Alliance, EMV and NFC: Complementary Technologies that Deliver Secure Payments and Value-Added Functionality (Smart Card Alliance, Inc. eds., 2012) (“ <i>Smart</i> ”)
Exhibit 1027	U.S. Patent Publication No. 2012/0011058 to Pitroda et al. (“ <i>Pitroda</i> ”)
Exhibit 1028	MasterCard, <i>MasterCard Approved Mobile Devices</i> , MASTERCARD (Aug. 3, 2012), http://www.mastercard-mobilepartner.com/docs/MasterCard_Aproved_Mobile_Devices.pdf , [https://web.archive.org/web/20120906234255/http://www.mastercard-mobilepartner.com:80/docs/MasterCard_Aproved_Mobile_Devices.pdf] (“ <i>MasterCard Mobile Partner</i> ”)
Exhibit 1029	U.S. Patent Publication No. 2013/0054474 to Yeager (“ <i>Yeager</i> ”)
Exhibit 1030	EMVCo, LLC, <i>EMV Chip At-a-Glance: Enabling Seamless and Secure Contact and Contactless Payments Around the World</i> , EMVCo (2002), https://www.emvco.com/wp-content/uploads/2022/09/EMV%C2%AE-Chip-At-A-Glance-EMVCo-eBook.pdf (“ <i>EMVCo</i> ”)
Exhibit 1031	Scoping SIG & Tokenization Taskforce PCI Security Standards Council, PCI Data Security Standard (PCI DSS) – Information Supplement: PCI DSS Tokenization Guidelines (pci Security Standards Council eds., Version 2.0 2011) (“ <i>PCI SSC</i> ”)
Exhibit 1032	Alessandro Vizzarri et al., Security in Mobile Payments (2013) (“ <i>Vizzarri</i> ”)

Exhibit 1033	U.S. Patent Publication No. 2008/00110983 to Ashfield (“ <i>Ashfield</i> ”)
Exhibit 1034	EMVCo, LLC, EMV Integrated Circuit Card Specifications for Payment Systems: Book 3 – Application Specification (EMVCo, LLC eds., Version 4.3 2011) (“ <i>EMV4.3 Book 3</i> ”)
Exhibit 1035	Tore Fjellheim, <i>Over-the-air Deployment of Applications in Multi-Platform Environments</i> , IEEE, Proceedings of the 2006 Australian Software Engineering Conference (ASWEC’06) (2006)
Exhibit 1036	Geoffrey R. Gerdes et al., The 2013 Federal Reserve Payment Study – Recent and Long-Term Trends in the United States: 2003-2012 (Federal Reserve System, Rev. 2014) (“ <i>Study Summary</i> ”)
Exhibit 1037	Geoffrey R. Gerdes et al., The 2013 Federal Reserve Payment Study – Recent and Long-Term Trends in the United States: 2000-2012 (Federal Reserve System, 2014) (“ <i>Study</i> ”)
Exhibit 1038	ConsumerWorld, <i>Two Months After the Deadline, Most Major Retailers Still Can't Read Chipped Credit Cards</i> , CONSUMERWORLD (Dec. 7, 2015), https://www.consumerworld.org/pages/creditcardreaders.htm (“ <i>ConsumerWorld Survey</i> ”)
Exhibit 1039	Ann Cavoukian, <i>Mobile Near Field Communications (NFC) “Tap ‘n Go” Keep it Secure & Private</i> , IPC (2011), https://www.ipc.on.ca/sites/default/files/legacy/Resources/mobile-nfc.pdf (“ <i>Cavoukian</i> ”)
Exhibit 1040	Annika Paus, <i>Near Field Communication in Cell Phones</i> (2017) (“ <i>Paus</i> ”)
Exhibit 1041	Ashis K. Mahapatra, <i>Touch Screen Systems</i> , ORISSA REVIEW (2005), https://magazines.odisha.gov.in/orissareview/jun2005/engpdf/touch_screen_system.pdf (“ <i>Mahapatra</i> ”)
Exhibit 1042	U.S. Patent Publication No. 2006/0097991 to Hotelling et al. (“ <i>Hotelling</i> ”)
Exhibit 1043	U.S. Patent Publication No. 2008/0122796 to Jobs et al. (“ <i>Jobs</i> ”)
Exhibit 1044	U.S. Patent No. 7,793,851 to Mullen (“ <i>Mullen</i> ”)
Exhibit 1045	WIPO International Publication No. WO 2010/039337 to Lin et al. (“ <i>Lin</i> ”)
Exhibit 1046	Mike Rosulek, <i>The Joy of Cryptography OE</i> , Oregon State University, Chapter 12:Hash Functions (1 ST ED. 2017), https://open.oregonstate.education/cryptographyOEfirst/chapter/chapter-12-hash-functions/ (“ <i>Rosulek</i> ”)

Exhibit 1047	U.S. Patent Publication No. 2014/0006276 to Grigg et al. (“ <i>Grigg</i> ”)
Exhibit 1048	Anup K. Ghosh & Tara M. Swaminatha, <i>Software Security and Privacy Risks in Mobile E-Commerce</i> , 44 CACM 51 (2001) (“ <i>Ghosh</i> ”)
Exhibit 1049	CardWare’s Preliminary Infringement Contentions
Exhibit 1050	Notice of Sotera Plus Stipulation <i>CardWare Inc. v. Apple Inc.</i> , Civil Action No. 1:25-cv-00446

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CERTIFICATE OF SERVICE ON PATENT OWNER
UNDER 37 C.F.R. § 42.105

Pursuant to 37 C.F.R. § 42.6(e), the undersigned certifies that on August 14, 2025, the foregoing *Petitioner's Updated Exhibit List and Exhibit 1050* were served via electronic filing with the Board and via Electronic Mail on the following counsel of record for Patent Owner:

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