

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

MASTERCARD INCORPORATED AND MASTERCARD
INTERNATIONAL INCORPORATED.,

Petitioner,

v.

OV LOOP, INC.,

Patent Owner.

Case IPR2023-01289

Patent 10,032,171

PATENT OWNER'S UPDATED EXHIBIT LIST

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PATENT OWNER'S UPDATED EXHIBITS LIST

Exhibit No.	Description
2001	Declaration of Spencer Hosie in support of Motion for <i>Pro Hac Vice</i> Admission
2002	Declaration of Diane S. Rice in support of Motion for <i>Pro Hac Vice</i> Admission
2003	Declaration of Darrell Atkinson in support of Motion for <i>Pro Hac Vice</i> Admission
2004	Wikipedia Article – Host Card Emulation
2005	NFCW Article, “SimplyTapp proposes secure elements in the cloud”, dated Sept. 19, 2012
2006	Android KitKat (https://developer.android.com/about/versions/kitkat)
2007	NFCW Article, “Google gets around the carriers with Host Card Emulation for NFC payments”, dated Oct. 31, 2013
2008	Visa Inc. Press Release - Visa to Enable Secure, Cloud-Based Mobile Payments
2009	Declaration of Dr. Chuck Easttom Ph.D., D.Sc.
2010	Multisystem Technologies, Acquiring: EMV Transaction Flow. Part 4: PDOL and Contactless Cards, Characteristic Features of qVSDC and qUICS, Nov. 22, 2020
2011	Multisystem Technologies, Acquiring: EMV Transaction Flow. Part 3: GET PROCESSING OPTIONS with and without PDOL, Aug. 14, 2020
2012	Bankrate, What is EMV compliance law and should your business worry about it?, Dec. 06, 2023
2013	Minimum EMV Chip Card and Terminal Requirements
2014	Fiserv, What is EMV?
2015	EMVCo, A Guide to EMV Chip Technology, Nov. 2014
2016	SPA, Instant Issuance, A SPA White Paper, Dec. 2013
2017	AlphaCard, What’s the difference between HiCo and LoCo magnetic stripe cards?

2018	SPA, Private Label Payment Systems, Nov. 15, 2011
2019	Payment Card Industry (PCI) Data Security Standard, Oct. 05, 2010
2020	Epordo, Smart Card Technology
2021	MasterCard, M/Chip 4 Issuer Guide to Debit and Credit Parameter Management, Dec. 2004
2022	quick Visa Smart Debit/Credit Intelligent Reader Testing Process, Oct. 2008
2023	NordVPN, Session key definition
2024	Microsoft Learn, Glossary
2025	VISA, Visa Best Practices for Data Field Encryption Version 1.0, Oct. 05, 2009
2026	Cisco, Next Generation Cryptography
2027	Anderson, et al., <i>Serpent: A Proposal for the Advanced Encryption Standard</i>
2028	Anderson, et al., <i>Serpent and Smartcards</i>
2029	FasterCapital, Encryption Techniques For Financial Transactions
2030	New Softwares, How do Banks Encrypt Data?
2031	Enisa, Algorithms, Key Sizes and Parameters Report, Oct. 2013
2032	Global Payments, What is EMV Contactless?, Mar. 06, 2019
2033	SC Media, The long and winding road: EMV Adoption, Jun. 1, 2015
2034	EMV in the U.S. (2020 Update)
2035	Deposition Transcript excerpts of Dr. Stuart Fiske
2036	Discover Financial, Emvco Membership Grows with Discover
2037	CV of Dr. Chuck Easttom Ph.D., D.Sc.
2038	WITHDRAWN
2039	Patent Owner's Oral Argument Demonstrative Exhibits

Respectfully submitted,

Dated: December 11, 2024

/s/ Seth Lindner

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CERTIFICATE OF SERVICE (37 C.F.R. § 42.6(e))

The undersigned hereby certifies that the above document was served on December 11, 2024, by filing this document through the Patent Trial and Appeal Case Tracking System as well as delivering a copy via electronic mail upon the following attorneys of record for the Petitioner:

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