

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4801422

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
EDWARD M. LEE	12/22/2017
PAVEL UMANSKI	01/10/2018
MARGARET A. SHINE	01/10/2018
RECEIVING PARTY DATA	
Name:	MASTERCARD INTERNATIONAL INCORPORATED
Street Address:	2000 PURCHASE STREET
City:	PURCHASE
State/Country:	NEW YORK
Postal Code:	10577
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15884050
CORRESPONDENCE DATA	
Fax Number:	(312)876-7934
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	202-408-6470
Email:	SG.Sophir.AllOthers@dentons.com, ipt.docketchi@dentons.com, patents.us@dentons.com
Correspondent Name:	DENTONS US LLP (SOPHIR-ALL OTHERS)
Address Line 1:	P. O. BOX 061080
Address Line 4:	CHICAGO, ILLINOIS 60606-1080
ATTORNEY DOCKET NUMBER:	P04749-US-UTIL
NAME OF SUBMITTER:	ERIC L. SOPHIR
SIGNATURE:	/ERIC L. SOPHIR/
DATE SIGNED:	01/30/2018
Total Attachments: 4	
source=Assignment#page1.tif	
source=Assignment#page2.tif	
source=Assignment#page3.tif	

WORLDWIDE ASSIGNMENT

WHEREAS, WE,

Edward M. LEE, a citizen of the United States, having a residence address at 168 Webster Rd., Scarsdale, New York 10583, Pavel UMANSKI, a citizen of the United States, having a residence address at 247 Sara Ct., Yorktown Heights, New York 10598, Margaret A SHINE, a citizen of the United States, having a residence address at 65 Boulder Brook Drive, Stamford, Connecticut 06903,

(hereinafter "Assignor"), have made an invention entitled "PREVENTING DATA ANALYSIS INTERRUPTIONS BY IDENTIFYING CARD CONTINUITY WITHOUT USING PERSONALLY IDENTIFIABLE INFORMATION" as set forth and described in U.S.

Application No. _____, filed _____; International Application No.

_____, filed _____; United States Provisional Application No.

_____, filed _____; and

WHEREAS, **MASTERCARD INTERNATIONAL INCORPORATED**, having its principal place of business at **2000 Purchase Street, Purchase, NY 10577**, hereinafter referred to as Assignee, is desirous of acquiring the whole right, title and interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor hereby confirms any prior assignment to Assignee, and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights.

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, any derivation proceedings relating thereto, and as to Letters Patent any supplemental examination, derivation proceeding, opposition, post grant review, reissue, re-examination, inter partes review, or extension thereof, and for litigation regarding, or for the

purpose of defending the validity of or protecting title to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee and its successors in interest without further or other compensation than that above set forth.

Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment. Assignor further covenants not to challenge, or assist or participate in any third party challenge to, the assigned inventions, or any patent application or patent thereon, whether by litigation, post grant review, inter partes review, covered business method review, reexamination, or otherwise.

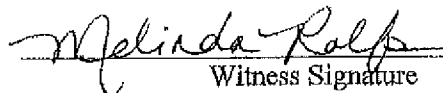
Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or other similar right to Assignee.

The undersigned hereby authorize the attorneys of DENTONS US LLP the power to insert in the spaces provided above the title of the invention, filing date, application number, and attorney's docket number of said application when known.

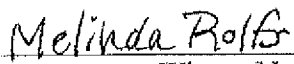
IN WITNESS WHEREOF, I, the said ASSIGNOR have executed this Assignment this
22 day of Dec, 2017.



Edward M LEE

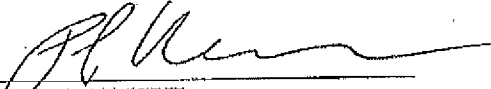


Witness Signature

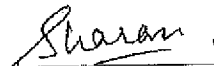


Witness Name

IN WITNESS WHEREOF, I, the said ASSIGNOR have executed this Assignment this
10 day of January, 2018.



Pavel UMANSKI



Witness Signature

Sharan Bakshiram

Witness Name

IN WITNESS WHEREOF, I, the said ASSIGNOR have executed this Assignment this
_____ day of _____, 201_____.

Margaret A. SHINE

Witness Signature

Witness Name

Agreed and accepted this _____ day of _____, 201_____.

MASTERCARD INTERNATIONAL INCORPORATED

By: _____

Title: _____

IN WITNESS WHEREOF, I, the said ASSIGNOR have executed this Assignment this
_____ day of _____, 201_____.

Pavel UMANSKI

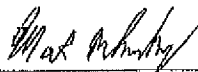
Witness Signature

Witness Name

IN WITNESS WHEREOF, I, the said ASSIGNOR have executed this Assignment this
10th day of January, 2018.



Margaret A. SHINE



Witness Signature

Mack Smasky

Witness Name

Agreed and accepted this 10th day of January, 2018.

MASTERCARD INTERNATIONAL INCORPORATED

By: Juan C. Gonzalez

Title: Juan C. Gonzalez - Senior Vice President and Senior IP Counsel