

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT5392750

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JOSHUA A. ALLBRIGHT	01/28/2019
AMUDHAN VENKATESAN	02/13/2019
FELIX JOHANNES FLORY	01/14/2019
CHRISTOPHER JOHN MERZ	01/18/2019
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:	16235529
CORRESPONDENCE DATA	
Fax Number:	(314)612-2307
<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:	314-621-5070
Email:	uspatents@armstrongteasdale.com
Correspondent Name:	PATENT DOCKET DEPARTMENT
Address Line 1:	7700 FORSYTH BLVD., SUITE 1800
Address Line 2:	ARMSTRONG TEASDALE LLP
Address Line 4:	ST. LOUIS, MISSOURI 63105
ATTORNEY DOCKET NUMBER:	21652-01105
NAME OF SUBMITTER:	DANIEL M. FITZGERALD
SIGNATURE:	/Daniel M. Fitzgerald/
DATE SIGNED:	02/26/2019
Total Attachments: 5	
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PATENT

REEL: 048437 FRAME: 0363

WORLDWIDE ASSIGNMENT

WHEREAS, WE,

Joshua A. Allbright, a citizen of the United States, having a residence address at
920 Big Bend Station, Valley Park, Missouri 63088, USA;

Amudhan Venkatesan, a citizen of Canada, having a residence address at 685 Pacific
Boulevard, Suite 1801, Vancouver, B.C., CANADA V6B0R4;

Felix Johannes Flory, a citizen of the United States, having a residence address at
2329 Forest Leaf Parkway, Wildwood, Missouri 63011, USA; and

Christopher John Merz, a citizen of the United States, having a residence address at
10 Flowery Branch Place, Wildwood, Missouri 63040, USA

(hereinafter "Assignor"), have made an invention entitled **"SYSTEMS AND METHODS FOR
INCORPORATING BREACH INTO FRAUD SCORING MODELS"** as set forth and
described in U.S. Application No. 16/235,529, filed December 28, 2018; International
Application No. _____, filed _____, which claims priority to _____, 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.

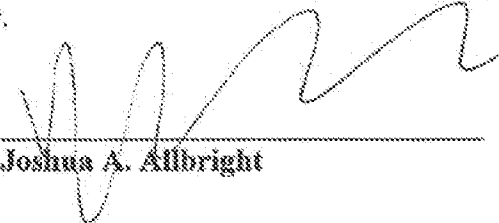
Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not 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 ARMSTRONG TEASDALE 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.

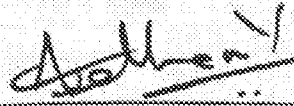
28 IN WITNESS WHEREOF, I, the said ASSIGNOR have executed this Assignment this
day of January, 2019.


Joshua A. Albright

Chengxi Li
Witness Signature

Chengxi Li
Witness Name

IN WITNESS WHEREOF, I, the said ASSIGNOR have executed this Assignment this
13th day of FEBRUARY, 2019.



Amudhan Venkatesan



Witness Signature

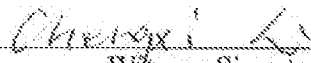
KIMBERLY WHYMAN

Witness Name

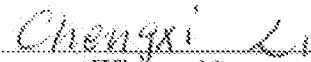
IN WITNESS WHEREOF, I, the said ASSIGNOR have executed this Assignment this
14 day of January, 2019.



Felix Johannes Flory

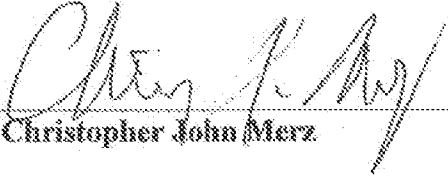


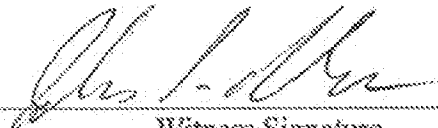
Witness Signature



Witness Name

IN WITNESS WHEREOF, I, the said ASSIGNOR have executed this Assignment this
18th day of JANUARY, 2019.


Christopher John Merz


Witness Signature

John P. McCrow
Witness Name

Agreed and accepted this 15th day of Feb., 2019.

MASTERCARD INTERNATIONAL INCORPORATED

By: 

Title: Timothy McBride - Vice President and Senior Managing Counsel