

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JOHN ALLEN	10/16/2018
AHMED HOSNY	10/09/2018
PETER J. GROARKE	10/08/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MASTERCARD INTERNATIONAL INCORPORATED
<b>Street Address:</b>	2000 PURCHASE STREET
<b>City:</b>	PURCHASE
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	10577
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16170986
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(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>	
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<b>ATTORNEY DOCKET NUMBER:</b>	21652-01106
<b>NAME OF SUBMITTER:</b>	DANIEL M. FITZGERALD
<b>SIGNATURE:</b>	/Daniel M. Fitzgerald/
<b>DATE SIGNED:</b>	10/25/2018
<b>Total Attachments: 4</b>	
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WORLDWIDE ASSIGNMENT

WHEREAS, WE,

**John Allen**, a citizen of Ireland, having a residence address at 7 Hunters Leap Leamore Upper, Newcastle, Wicklow, A63 K032, Ireland

**Ahmed Hosny**, a citizen of Egypt, having a residence address at 21 West Courtyard, Tullyvale, Cabinteely, Dublin, 18, Ireland

**Peter J. Groarke**, a citizen of Ireland, having a residence address at 7 Mount Eagle Rise, Dublin, 18, Ireland

(hereinafter "Assignor"), have made an invention entitled "**COMPUTING DEVICES AND METHODS FOR PROPAGATING UPDATES TO USER PROFILE DATA**" 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, NEW YORK, 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.

IN WITNESS WHEREOF, I, the said ASSIGNOR have executed this Assignment this  
16<sup>th</sup> day of October, 2018.

  
\_\_\_\_\_  
John Allen

  
\_\_\_\_\_  
Witness Signature

Michael Blizov  
\_\_\_\_\_  
Witness Name

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

Ahmed Hosny  
Ahmed Hosny

  
Witness Signature  
JO ANN GLYN  
Witness Name

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

Peter J. Groarke  
Peter J. Groarke

Emmet Wildes  
Witness Signature

EMMET WILDES  
Witness Name

Agreed and accepted this 19th day of Oct., 2018.

MASTERCARD INTERNATIONAL INCORPORATED

By: Juan C. Gonzalez

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