

## 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>
DANA J. LORBERG	02/16/2016
SANDEEP MALHOTRA	02/17/2016
<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>	15047415
<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>Correspondent Name:</b>	DANIEL M. FITZGERALD (21652) ARMSTRONG T
<b>Address Line 1:</b>	7700 FORSYTH BOULEVARD
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<b>ATTORNEY DOCKET NUMBER:</b>	21652-00614
<b>NAME OF SUBMITTER:</b>	DANIEL M. FITZGERALD
<b>SIGNATURE:</b>	/Daniel M. Fitzgerald/
<b>DATE SIGNED:</b>	02/18/2016
<b>Total Attachments: 3</b>	
source=Executed Assignment-22467861#page1.tif	
source=Executed Assignment-22467861#page2.tif	
source=Executed Assignment-22467861#page3.tif	

**ASSIGNMENT**

In consideration of One Dollar and other good and valuable consideration, of which I/we acknowledge receipt, I/we,

**Dana J. Lorberg of 35 Ladue Meadows, Creve Coeur, MO 63141**  
**Sandeep Malhotra of 33 Greenleaf Dr., Stamford, CT 06902**

hereby sell and assign to **MasterCard International Incorporated** (hereinafter referred to as Assignee), a Delaware Corporation, with its principal address at 2000 Purchase Street, Purchase, New York 10577, USA, its successors and assigns my (our) entire respective right(s), title(s) and interest(s) in and to the invention and improvements invented and originated by me/us and described in the non-provisional application for United States Patent currently entitled:

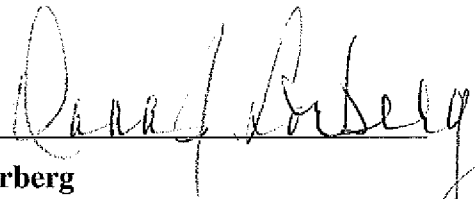
**SYSTEMS AND METHODS FOR PRE-PROCESSING NETWORK MESSAGES TO  
OPTIMIZE ROUTING**

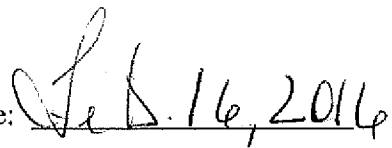
executed concurrently herewith,

filed on \_\_\_\_\_, having Serial Number \_\_\_\_\_

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, reexaminations and reissues thereof, and all rights of priority resulting from the filing of said United States application, and authorize and request any official whose duty it is to issue patents, to issue any patent on said inventions and improvements resulting therefrom to said Assignee, or its successors or assigns and agree that on request and without further consideration, but at the expense of said Assignee, I/we will communicate to said Assignee or its representatives or nominees any facts known to me/us respecting said inventions and improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, reexamination and reissue applications, make all rightful oaths and generally do everything possible to aid said Assignee, its successors, assigns, and nominees to obtain and enforce proper patent protection for said invention and its improvements in all countries.


INVENTOR 1

Signature:   
**Dana J. Lorberg**

Date: 

Witnessed by:   
Signature

Date: 2-16-2016

  
Printed Name of Witness

INVENTOR 2

Signature: *Sandeep*  
**Sandeep Malhotra**

Date: 2/17/16

Witnessed by: *Claudia Amelio*  
Signature

Date: 2/17/16

*CLAUDIA Amelio*  
Printed Name of Witness