

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3491777

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
AARTI SHARMA	08/19/2015
<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>
Application Number:	14831336
<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
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<b>ATTORNEY DOCKET NUMBER:</b>	21652-00516
<b>NAME OF SUBMITTER:</b>	DANIEL M. FITZGERALD
<b>SIGNATURE:</b>	/Daniel M. Fitzgerald/
<b>DATE SIGNED:</b>	08/20/2015
<b>Total Attachments: 2</b>	
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source=P02207-US-UTIL Executed Assignment 19AUG2015#page2.tif	

**ASSIGNMENT**

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

<b>Aarti Sharma</b>	<b>of</b>	<b>Saint Charles, Missouri</b>
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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:

**ADDING SUPPLEMENTAL DATA TO DATA SIGNALS TO  
ENHANCE LOCATION DETERMINATION**

☒ 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: Aarti Sharma  
Aarti Sharma

Date: 8/19/2015

Witnessed by: [Signature]  
Signature

Date: 8/19/2015

MICHAEL D CUEST  
Printed Name of Witness