

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DEBASHIS GHOSH	12/02/2013
RANDY SHUKEN	12/06/2013
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:	14100789
CORRESPONDENCE DATA	
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<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>	
Correspondent Name:	DANIEL M. FITZGERALD (21652) ARMSTRONG T
Address Line 1:	7700 FORSYTH BOULEVARD
Address Line 2:	SUITE 1800
Address Line 4:	ST. LOUIS, MISSOURI 63105
ATTORNEY DOCKET NUMBER:	21652-00305
NAME OF SUBMITTER:	DANIEL M. FITZGERALD
Signature:	/Daniel M. Fitzgerald/
Date:	12/09/2013
Total Attachments: 3 source=P01154-US-UTIL Assignment 09DEC2013-16820866#page1.tif source=P01154-US-UTIL Assignment 09DEC2013-16820866#page2.tif source=P01154-US-UTIL Assignment 09DEC2013-16820866#page3.tif	

CH \$40.00 14100789

ASSIGNMENT

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

Debashis Ghosh	of	10718 Lederer Ave., Charlotte, NC 28277
Randy Shuken	of	34 Meeker Rd., Westport, CT 06880

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:

**METHODS AND SYSTEMS FOR LEVERAGING TRANSACTION DATA TO
DYNAMICALLY AUTHENTICATE A USER**

☒ 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: _____

Date: _____

DEBASHIS GHOSH

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

FOR SIGNING IN PRESENCE OF A NOTARY

Debashis Ghosh

Date: 12/2/12

DEBASHIS GHOSH

STATE OF North Carolina
COUNTY OF Mecklenburg^{SS}

This 2 day of December, 2012, before me personally came the above-named **DEBASHIS GHOSH**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

[Signature]
(Notary Public)
COMMISSION EXPIRES 4/18/18

INVENTOR 2

Signature: _____

RANDY SHUKEN

Date: _____

12/6/13

Witnessed by: _____

Signature

Date: _____

12/6/13

Lavern Gilliard

Printed Name of Witness

FOR SIGNING IN PRESENCE OF A NOTARY

_____ Date: _____

RANDY SHUKEN

STATE OF

ss.

COUNTY OF

This _____ day of _____, _____ before me personally came the above-named **RANDY SHUKEN**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

(Notary Public)