

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Frederick Michael Pacher</td> <td>01/08/2013</td> </tr> <tr> <td>Mikhail Blinov</td> <td>01/09/2013</td> </tr> <tr> <td>Edwin V. Diekemper</td> <td>01/10/2013</td> </tr> <tr> <td>Peter J. Groarke</td> <td>01/07/2013</td> </tr> </tbody> </table>		Name	Execution Date	Frederick Michael Pacher	01/08/2013	Mikhail Blinov	01/09/2013	Edwin V. Diekemper	01/10/2013	Peter J. Groarke	01/07/2013
Name	Execution Date										
Frederick Michael Pacher	01/08/2013										
Mikhail Blinov	01/09/2013										
Edwin V. Diekemper	01/10/2013										
Peter J. Groarke	01/07/2013										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>MasterCard International Incorporated</td> </tr> <tr> <td>Street Address:</td> <td>2000 Purchase Street</td> </tr> <tr> <td>City:</td> <td>Purchase</td> </tr> <tr> <td>State/Country:</td> <td>NEW YORK</td> </tr> <tr> <td>Postal Code:</td> <td>10577</td> </tr> </table>		Name:	MasterCard International Incorporated	Street Address:	2000 Purchase Street	City:	Purchase	State/Country:	NEW YORK	Postal Code:	10577
Name:	MasterCard International Incorporated										
Street Address:	2000 Purchase Street										
City:	Purchase										
State/Country:	NEW YORK										
Postal Code:	10577										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13742172</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13742172						
Property Type	Number										
Application Number:	13742172										
CORRESPONDENCE DATA											
<p>Fax Number: 3146122307  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 314-621-5070        Email: USpatents@armstrongteasdale.com</p> <p>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</p>											
ATTORNEY DOCKET NUMBER:	21652-00232										
NAME OF SUBMITTER:	Daniel M. Fitzgerald										
Total Attachments: 5											

CH \$40.00 13742172

source=P00912 US Executed Assignment 15JAN2013-14522614#page1.tif  
source=P00912 US Executed Assignment 15JAN2013-14522614#page2.tif  
source=P00912 US Executed Assignment 15JAN2013-14522614#page3.tif  
source=P00912 US Executed Assignment 15JAN2013-14522614#page4.tif  
source=P00912 US Executed Assignment 15JAN2013-14522614#page5.tif

**ASSIGNMENT**

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

**Frederick Michael Pacher** of **174 Primrose Road, Williston Park, NY 11596**  
**Mikhail Blinov** of **5 Ashgrove, Dun Laoghaire, County Dublin, Ireland**  
**Edwin V. Diekemper** of **125 Savannah Ct., Marine, IL 62061**  
**Peter J. Groarke** of **7 Mount Eagle Rise, Dublin 18, Ireland**

hereby sell and assign to **MasterCard International Incorporated** (hereinafter referred to as Assignee), a Delaware Corporation, with its principle 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 PROCESSING OFF-NETWORK  
TRANSACTION MESSAGES**

☒ 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:

Frederick Michael Pacher

**Frederick Michael Pacher**

Date:

1/8/13

Witnessed by:

Gail Alejo-Reyes

Signature

Date:

1/8/13

Gail Alejo-Reyes

Printed Name of Witness

Witnessed by:

Diane Shaib Kretschmann

Signature

Date:

1/8/13

Diane Shaib Kretschmann

Printed Name of Witness

INVENTOR 2

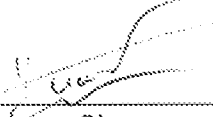
Signature:   
Mikhail Blinov

Date: 9/01/2013

Witnessed by:   
Signature

Date: 9/1/13

DAVID MC DOWELL  
Printed Name of Witness

Witnessed by:   
Signature

Date: 9/1/2013

HUBERT GRAJA  
Printed Name of Witness

INVENTOR 3

Signature: Edwin V. Diekemper  
Edwin V. Diekemper

Date: 1-10-2013

Witnessed by: Rebecca L. Schuster  
Signature

Date: 1-10-13

Rebecca L. Schuster  
Printed Name of Witness

Witnessed by: Joseph J. Rieker  
Signature

Date: 1/10/13

Joseph J. Rieker  
Printed Name of Witness

INVENTOR 4

Signature: Peter J. Groarke  
Peter J. Groarke

Date: 7/1/2013

Witnessed by: Lauren Green  
Signature

Date: 7/1/2013

LAUREN GREEN  
Printed Name of Witness

Witnessed by: Aidan Channon  
Signature

Date: 7/1/13

AIDAN CHANNON  
Printed Name of Witness