

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Robert E. Morley Jr.</td> <td>03/18/2008</td> </tr> <tr> <td>Edward J. Richter</td> <td>03/18/2008</td> </tr> <tr> <td>Ronald S. Indeck</td> <td>04/02/2008</td> </tr> </tbody> </table>		Name	Execution Date	Robert E. Morley Jr.	03/18/2008	Edward J. Richter	03/18/2008	Ronald S. Indeck	04/02/2008
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Robert E. Morley Jr.	03/18/2008								
Edward J. Richter	03/18/2008								
Ronald S. Indeck	04/02/2008								
RECEIVING PARTY DATA									
Name:	Washington University								
Street Address:	One Brookings Drive								
City:	St. Louis								
State/Country:	MISSOURI								
Postal Code:	63130								
PROPERTY NUMBERS Total: 1									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11935980</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11935980				
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CORRESPONDENCE DATA									
Fax Number:	(626)577-8800								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	626-795-9900								
Email:	pto@cph.com								
Correspondent Name:	CHRISTIE, PARKER & HALE, LLP								
Address Line 1:	P.O. BOX 7068								
Address Line 4:	PASADENA, CALIFORNIA 91109-7068								
ATTORNEY DOCKET NUMBER:	60762/M1017								
NAME OF SUBMITTER:	Robert A. Green								

Total Attachments: 5
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**PATENT
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INVENTION AND PATENT ASSIGNMENT**ASSIGNORS:**

Name Robert E. Morley, Jr.
Resident City, St. Louis, Missouri
State _____

Name Edward J. Richter
Resident City, St. Louis, Missouri
State _____

Name Ronald S. Indeck
Resident City, St. Louis, Missouri
State _____

WHEREAS, the aforementioned individuals (the "ASSIGNORS") along with Ann Marie D. Hart, Lawrence R. Meyers, and Carlos Hernandez have developed a certain INVENTION having WU OTM Case No. CR0069-01 and being entitled IMPROVED SYSTEM FOR MAGSTRIPE CARD VERIFICATION (collectively, with all future enhancements and improvements thereto as well as all related original works of authorship related thereto other than those solely of an artistic, literary or scholarly nature, as the "INVENTION");

WHEREAS, the ASSIGNORS have executed an APPLICATION for a United States Patent based on the INVENTION, entitled **CARD AUTHENTICATION SYSTEM**, filed on November 6, 2007, and assigned APPLICATION Serial No. 11/935,980, WU OTM case no. CR0069-01/US/2. (the "APPLICATION");

WHEREAS, Washington University, a corporation of the State of Missouri having its principal office and place of business at One Brookings Drive, St. Louis, Missouri, 63130, ("ASSIGNEE") is desirous of acquiring the entire and exclusive right, title, and interest in and to the INVENTION and the APPLICATION;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00) to ASSIGNORS in hand paid and other good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the ASSIGNORS hereby sell, assign and transfer to ASSIGNEE the full and exclusive right, title and interest in the United States (including its territories and dependencies) and all countries foreign thereto in, to and under the INVENTION, the APPLICATION, and any other United States APPLICATIONS (including provisional, non-provisional, divisional, continuing and reissue APPLICATIONS) based in whole or in part on the APPLICATION or in whole or in part on the INVENTION, and any patents (including extensions thereof) of any country that have been or may be granted on any of the aforesaid APPLICATIONS or on the INVENTION or any part thereof and including all rights to claim

priority through any international convention or treaty and all copyrights on or related to the INVENTION;

ASSIGNORS hereby warrant and represent to Assignee, its successors, legal representatives and assigns, that at the time of execution of this assignment, the ASSIGNORS listed above are the sole individuals employed by the ASSIGNEE who have made contributions to the INVENTION, that the ASSIGNORS are unencumbered and have good and full right and lawful authority to sell and convey the same in the manner herein set forth, and that all works of authorship assigned herein are original works created solely by the ASSIGNORS and are free from plagiarized, libelous, obscene or infringing material;

ASSIGNORS hereby authorize and request the Commissioner of Patents of the United States of America, to issue any and all United States Patents that may be granted on any assigned APPLICATION or on the INVENTION or any part thereof, in the name of ASSIGNEE;

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this sale, assignment and transfer; and

ASSIGNORS further covenant that upon ASSIGNEE's request they will provide promptly to ASSIGNEE all pertinent facts and documents relating to the aforesaid APPLICATIONS and the INVENTION as may be known and accessible to ASSIGNORS, and ASSIGNORS will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives without further consideration any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce the aforesaid APPLICATIONS that may be deemed necessary or desirable by ASSIGNEE to carry out the purposes hereof.

For the event that ASSIGNEE is unable, after reasonable effort, to secure any ASSIGNOR's signature on any APPLICATION, paper or other instrument relating to any patent, patent APPLICATION, letters patent, copyright or other analogous protection relating to the INVENTION in any country, whether because of the ASSIGNOR's mental incapacity, death or for any other reason whatsoever, each ASSIGNOR hereby irrevocably designates and appoints ASSIGNEE and its duly authorized officers and agents as each ASSIGNOR's agent and attorney in fact to act for and to execute and file any such APPLICATION, paper or other instrument on ASSIGNOR's behalf and to do all other lawfully permitted acts to further the prosecution and issuance of any patent, patent APPLICATION, letters patent, copyright or any other analogous

protection related to the INVENTION with the same legal force and effect as if executed by such ASSIGNOR.

For the convenience of the parties, any number of counterparts of the Assignment may be executed by the parties hereto. Each such counterpart shall be and shall be deemed to be an original instrument but all such counterparts taken together shall constitute one and the same assignment.

IN WITNESS WHEREOF, the ASSIGNORS have hereunto set their hand to the foregoing assignment.

Robert E. Morley, Jr.
Robert E. Morley, Jr.

3/18/08
date

ACKNOWLEDGMENT

STATE OF Missouri)
) SS.
CITY OF St. Louis)

On this 18th day of March, 2008, before me, a Notary Public, personally appeared Robert E. Morley, Jr. me to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed said instrument as his free act and deed.

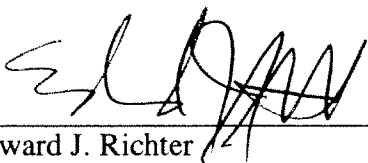
In Testimony Whereof, I have hereunto set my hand and affixed my official seal the day and year first above written.

Toni R. Cleveland
Notary Public

My Commission Expires:

April 10, 2011 [SEAL]





Edward J. Richter

3/18/08


date

ACKNOWLEDGMENT

STATE OF Missouri)
) SS.
CITY OF St. Louis)

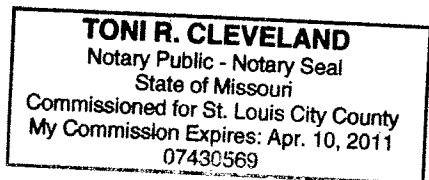
On this 18th day of March, 2008, before me, a Notary Public, personally appeared Edward J. Richter to me to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed said instrument as his free act and deed.

In Testimony Whereof, I have hereunto set my hand and affixed my official seal the day and year first above written.


Notary Public

My Commission Expires:

April 10, 2011 [SEAL]



Ronald S. Indeck
Ronald S. Indeck
4/2/08
date

ACKNOWLEDGMENT

STATE OF Missouri)
CITY OF St. Louis) SS.

On this 2nd day of APRIL, 2008, before me, a Notary Public, personally appeared Ron Indeck to me to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed said instrument as his free act and deed.

In Testimony Whereof, I have hereunto set my hand and affixed my official seal the day and year first above written.

Beverly H Sparks
Notary Public

My Commission Expires:
Sept 13 2011 [SEAL]

