

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3723961

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
PAUL MORETON	04/06/2012
THOMAS S. POOLE	04/05/2012
RECEIVING PARTY DATA	
Name:	CAPITAL ONE FINANCIAL CORPORATION
Street Address:	1680 CAPITAL ONE DRIVE
City:	MCLEAN
State/Country:	VIRGINIA
Postal Code:	22102
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14966656
CORRESPONDENCE DATA	
Fax Number:	(202)778-2201
<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>	
Phone:	2029551500
Email:	patdcdoCKET@hunton.com
Correspondent Name:	HUNTON & WILLIAMS LLP
Address Line 1:	2200 PENNSYLVANIA AVENUE
Address Line 4:	WASHINGTON, D.C. 20037
ATTORNEY DOCKET NUMBER:	67519.001443
NAME OF SUBMITTER:	DANIEL G. VIVARELLI, JR.
SIGNATURE:	/Daniel G. Vivarelli, Jr./
DATE SIGNED:	02/03/2016
Total Attachments: 14	
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number : 14/966,656 Confirmation No.: 1771
Applicant : Thomas S. POOLE et al.
Filed : December 11, 2015
Title : ENHANCED NEAR FIELD COMMUNICATIONS
ATTACHMENT
TC/Art Unit : 3693
Examiner: : Gennadiy TSVEY

Docket No. : 67519.001443
Customer No. : 21967

MAIL STOP ASSIGNMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

LETTER

Sir,

This is submitted to update the Assignment of the above-identified application. This application is a Continuation of U.S. Application No. 14/790,126, which is a Continuation of U.S. Application No. 14/290,347, now U.S. Patent 9,105,025, which is a Continuation-in-Part of U.S. Application No. 13/538,468, now U.S. Patent 9,183,491, which is a Continuation of U.S. Application 13/441,505, now U.S. Patent 9,183,490, which claims priority to U.S. Provisional Applications 61/570,275 filed December 13, 2011 and 61/547,910 filed October 17, 2011. Attached is a copy of the original Assignment Recordation recorded in the parent application (U.S. Serial No. 14/790,126) and the current assignment information for this application. Please note that the original Assignment document for this parent application also assigns all continuations, reissues, reexaminations, renewals, substitutes and divisions.

Respectfully submitted,

HUNTON & WILLIAMS LLP

Dated: February 3, 2016

By: /Daniel G. Vivarelli, Jr./
Daniel G. Vivarelli, Jr.
Registration No 51,137

Hunton & Williams LLP
Intellectual Property Department
2200 Pennsylvania Avenue
Washington, DC 20037
(202) 955-1500 (telephone)
(202) 955-1804 (direct)
(202) 778-2201 (facsimile)
DGV/mia



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUGUST 19, 2015

PTAS

HUNTON & WILLIAMS LLP
2200 PENNSYLVANIA AVENUE
WASHINGTON, DC 20037

503441088

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 08/18/2015

REEL/FRAME: 036349/0804
NUMBER OF PAGES: 13

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 67519.001400

ASSIGNOR:
MORETON, PAUL

DOC DATE: 04/06/2012

ASSIGNOR:
POOLE, THOMAS

DOC DATE: 04/05/2012

ASSIGNEE:
CAPITAL ONE FINANCIAL CORPORATION
1680 CAPITAL ONE DRIVE
MCLEAN, VIRGINIA 22102

APPLICATION NUMBER: 14790126
PATENT NUMBER:
TITLE: ENHANCED NEAR FIELD COMMUNICATIONS ATTACHMENT

FILING DATE: 07/02/2015
ISSUE DATE:

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3487712

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
PAUL MORETON	04/06/2012
THOMAS POOLE	04/05/2012
RECEIVING PARTY DATA	
Name:	CAPITAL ONE FINANCIAL CORPORATION
Street Address:	1680 CAPITAL ONE DRIVE
City:	MCLEAN
State/Country:	VIRGINIA
Postal Code:	22102
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14790126
CORRESPONDENCE DATA	
Fax Number:	(202)778-2201
<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>	
Phone:	2029551500
Email:	patdcdoCKET@hunton.com
Correspondent Name:	HUNTON & WILLIAMS LLP
Address Line 1:	2200 PENNSYLVANIA AVENUE
Address Line 4:	WASHINGTON, D.C. 20037
ATTORNEY DOCKET NUMBER:	67519.001400
NAME OF SUBMITTER:	DANIEL G. VIVARELLI, JR.
SIGNATURE:	/Daniel G. Vivarelli, Jr./
DATE SIGNED:	08/18/2015
Total Attachments: 11	
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number : 14/790,126 Confirmation No.: 1060
Applicant : Thomas S. POOLE et al.
Filed : July 2, 2015
Title : ENHANCED NEAR FIELD COMMUNICATIONS
ATTACHMENT
TC/Art Unit : 3685
Examiner: : Unassigned
Docket No. : 67519.001400
Customer No. : **21967**

MAIL STOP ASSIGNMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

LETTER

Sir,

This is submitted to update the Assignment of the above-identified application. This application is a continuation of 14/290,347, now U.S. Patent No. 9,105,025, which is a continuation-in-part of 13/538,468, which is a continuation of 13/441,505. Attached is a copy of the original Assignment Recordation recorded in the parent application (U.S. Serial No. 14/290,347) and the current assignment information for this application. Please note that the original Assignment document for this parent application also assigns all continuations, reissues, reexaminations, renewals, substitutes and divisions.

Respectfully submitted,

HUNTON & WILLIAMS LLP

Dated: August 18, 2015

By: /Daniel G. Vivarelli, Jr./
Daniel G. Vivarelli, Jr., Reg. No 51,137

Hunton & Williams LLP
Intellectual Property Department
2200 Pennsylvania Avenue
Washington, DC 20037
(202) 955-1500 (telephone)
(202) 955-1804 (direct)
(202) 778-2201 (facsimile)

DGV/mia



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

APRIL 14, 2015

PTAS

HUNTON & WILLIAMS LLP INTELLECTUAL
PROPE
2200 PENNSYLVANIA AVENUE, N.W.
WASHINGTON, DC 20037

503261212

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 04/13/2015

REEL/FRAME: 035394/0561
NUMBER OF PAGES: 10

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 67519.001362

ASSIGNOR:
MORETON, PAUL

DOC DATE: 04/06/2012

ASSIGNOR:
POOLE, THOMAS

DOC DATE: 04/05/2012

ASSIGNEE:
CAPITAL ONE FINANCIAL CORPORATION
1680 CAPITAL ONE DRIVE
MCLEAN, VIRGINIA 22102

APPLICATION NUMBER: 14290347

FILING DATE: 05/29/2014

PATENT NUMBER:

ISSUE DATE:

TITLE: ENHANCED NEAR FIELD COMMUNICATIONS ATTACHMENT

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3307830

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
PAUL MORETON	04/06/2012
THOMAS POOLE	04/05/2012
RECEIVING PARTY DATA	
Name:	CAPITAL ONE FINANCIAL CORPORATION
Street Address:	1680 CAPITAL ONE DRIVE
City:	MCLEAN
State/Country:	VIRGINIA
Postal Code:	22102
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14290347
CORRESPONDENCE DATA	
Fax Number:	(202)778-2201
<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>	
Phone:	2029551500
Email:	patdcdocket@hunton.com
Correspondent Name:	HUNTON & WILLIAMS LLP INTELLECTUAL PROPE
Address Line 1:	2200 PENNSYLVANIA AVENUE, N.W.
Address Line 4:	WASHINGTON, D.C. 20037
ATTORNEY DOCKET NUMBER:	67519.001362
NAME OF SUBMITTER:	DANIEL G. VIVARELLI, JR.
SIGNATURE:	/Daniel G. Vivarelli, Jr./
DATE SIGNED:	04/13/2015
Total Attachments: 8	
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number : 14/290,347 Confirmation No.: 4542
Applicant : Thomas S. POOLE et al.
Filed : May 29, 2014
Title : ENHANCED NEAR FIELD COMMUNICATIONS
ATTACHMENT
TC/Art Unit : 2648
Examiner: : Gennadiy TSVEY

Docket No. : 67519.001362
Customer No. : 21967

MAIL STOP ASSIGNMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

LETTER

Sir,

This is submitted to update the Assignment of the above-identified application. Attached is a copy of the original Assignment Recordation recorded in the parent application (U.S. Serial No. 13/538,468) and the current assignment information for this parent application. Please note that the original Assignment document for this parent application includes all continuations, reissues, reexaminations, extensions, substitutes and divisions.

Respectfully submitted,

HUNTON & WILLIAMS LLP

Dated: April 13, 2015

By: /Daniel G. Vivarelli, Jr./
Daniel G. Vivarelli, Jr.
Registration No 51,137

Hunton & Williams LLP
Intellectual Property Department
2200 Pennsylvania Avenue
Washington, DC 20037
(202) 955-1500 (telephone)
(202) 955-1804 (direct)
(202) 778-2201 (facsimile)
DGV/mia



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67519.001277

UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JULY 3, 2012

PTAS

HUNTON & WILLIAMS LLP INTELLECTUAL
PROPE
2200 PENNSYLVANIA AVENUE, N.W.
WASHINGTON, DC 20037

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UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 06/29/2012

REEL/FRAME: 028472/0368
NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 67519.001277

ASSIGNOR:
MORETON, PAUL

DOC DATE: 04/06/2012

ASSIGNOR:
POOLE, THOMAS

DOC DATE: 04/05/2012

ASSIGNEE:
CAPITAL ONE FINANCIAL CORPORATION
1680 CAPITAL ONE DRIVE
MCLEAN, VIRGINIA 22102

APPLICATION NUMBER: 13538468
PATENT NUMBER:

FILING DATE:
ISSUE DATE:

TITLE: SYSTEM AND METHOD FOR PROVIDING CONTACTLESS PAYMENT WITH A NEAR
FIELD COMMUNICATIONS ATTACHMENT

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Paul MORETON	04/06/2012
Thomas POOLE	04/05/2012
RECEIVING PARTY DATA	
Name:	CAPITAL ONE FINANCIAL CORPORATION
Street Address:	1680 Capital One Drive
City:	McLean
State/Country:	VIRGINIA
Postal Code:	22102
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13538468
CORRESPONDENCE DATA	
Fax Number:	(202)778-2201
Phone:	202 955 1500
Email:	patdcdocket@hunton.com
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Correspondent Name:	HUNTON & WILLIAMS LLP INTELLECTUAL PROPE
Address Line 1:	2200 Pennsylvania Avenue, N.W.
Address Line 4:	WASHINGTON, DISTRICT OF COLUMBIA 20037
ATTORNEY DOCKET NUMBER:	67519.001277
NAME OF SUBMITTER:	Christopher M. First
Total Attachments: 5 source=67519-1277-Assignment#page1.tif source=67519-1277-Assignment#page2.tif source=67519-1277-Assignment#page3.tif source=67519-1277-Assignment#page4.tif source=67519-1277-Assignment#page5.tif	

CH \$40.00 13538468

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number : Unassigned Confirmation No.: Unassigned
Applicant : Paul MORETON et al.
Filed : June 29, 2012
Title : System and Method for Providing Contactless Payment With a Near
Field Communications Attachment
TC/Art Unit : Unassigned
Examiner: : Unassigned

Docket No. : 67519.001277
Customer No. : 21967

MAIL STOP ASSIGNMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

LETTER

Sir,

This is submitted to update the Assignment of the above-identified application. Attached is a copy of the original Assignment Recordation recorded in the parent application (U.S. Serial No. 13/441,505) and the current assignment information for this parent application. Please note that the original Assignment document for this parent application includes all continuations, reissues, reexaminations, extensions, substitutes and divisions.

Respectfully submitted,

HUNTON & WILLIAMS LLP

Dated: 6/29/12

By: 

Christopher M. First
Registration No 68,042

Hunton & Williams LLP
Intellectual Property Department
2200 Pennsylvania Avenue
Washington, DC 20037
(202) 955-1500 (telephone)
(202) 955-1804 (direct)
(202) 778-2201 (facsimile)
CMF/mia

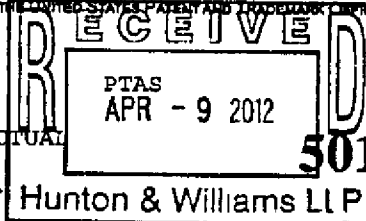


UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

APRIL 9, 2012

HUNTON & WILLIAMS LLP INTELLECTUAL
PROPE
2200 PENNSYLVANIA AVENUE, N.W.
WASHINGTON, DC 20037



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DOCKETED

**UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 04/06/2012

REEL/FRAME: 028007/0255
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 67519.001261

ASSIGNOR:
MORETON, PAUL

DOC DATE: 04/06/2012

ASSIGNOR:
POOLE, THOMAS

DOC DATE: 04/05/2012

ASSIGNEE:
CAPITAL ONE FINANCIAL CORPORATION
1680 CAPITAL ONE DRIVE
MCLEAN, VIRGINIA 22102

APPLICATION NUMBER: 13441505
PATENT NUMBER:

FILING DATE:
ISSUE DATE:

TITLE: SYSTEM AND METHOD FOR PROVIDING CONTACTLESS PAYMENT WITH A NEAR
FIELD COMMUNICATIONS ATTACHMENT

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

P.O. Box 1450, Alexandria, Virginia 22313-1450 - WWW.USPTO.GOV

PATENT
REEL: 037652 FRAME: 0326

ASSIGNMENT

WHEREAS, we,
Paul MORETON, residing at 11916 Brookmeade Court, Glen Allen, VA 23059;
and
Thomas POOLE, residing at 13799 Necklace Court, Chantilly, VA 20151;
have invented certain new and useful improvements in and to the subject matter of:

SYSTEM AND METHOD FOR PROVIDING CONTACTLESS PAYMENT WITH A NEAR FIELD COMMUNICATIONS ATTACHMENT

described in an application for United States Letters Patent being executed simultaneously herewith;

AND, WHEREAS, Capital One Financial Corporation, a corporation organized under the laws of the State of Delaware, having a place of business located at 1680 Capital One Drive, McLean, Virginia 22102 (hereinafter "ASSIGNEE"), is desirous of acquiring certain rights to the improvements and under the application;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration, receipt of which is hereby acknowledged, we do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, my entire right, title and interest in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto in and to said improvements, said United States application, any other United States applications, including provisional, divisional, renewal, substitute, continuation, reexamination and reissue applications, based in whole or in part on said United States application or in whole or in part on said improvements, any foreign applications, including international and regional applications, based in whole or in part on any of the aforesaid United States applications or in whole or in part on said improvements, and in and to any and all letters patent, including extensions thereof, of any country which have been or may be granted on any of the aforesaid applications or on said improvements or any parts thereof;

AND we hereby authorize and request my agents, Hunton & Williams LLP, whose address is 2200 Pennsylvania Ave. NW, Washington, DC 20037, to insert hereon any identification necessary or desirable for recordation of this document, including the filing date and application number of said application when known.

AND we hereby agree for myself and my heirs, executors and administrators to execute without further consideration any further documents and instruments which may be necessary, lawful and proper in the prosecution of said above-referenced application or in the preparation or prosecution of any continuing, substitute, divisional, renewal, reexamination or reissue application or in any amendments, extensions or interference proceedings, or other applications for patents of any region or country, that may be necessary to secure to ASSIGNEE its interest and title in and to said improvements or any parts thereof, and in and to said several patents or any of them;

AND we hereby covenant for myself and my legal representatives, and agree with said ASSIGNEE, its successors and assigns, that we have granted no right or license to make, use, sell or offer to sell said improvements, to anyone except said ASSIGNEE, that prior to the execution of this deed, my right, title and interest in said improvements had not been otherwise encumbered, and that I have not and will not execute any instrument in conflict therewith;

AND we do hereby authorize and request the Director of the United States Patent and Trademark Office to issue any and all letters patent which may be granted upon said United States applications, or upon said improvements or any parts thereof when granted, to said ASSIGNEE.

IN WITNESS WHEREOF, we have hereunto set our hand and seal.

4/6/2012
Date

Paul Moreton
Paul MORETON

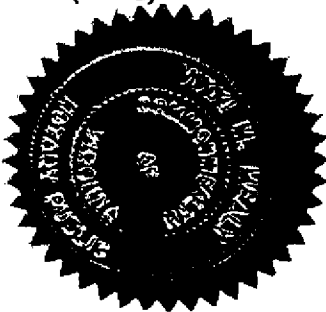
County of Henrico)
State of Virginia) ss: 489 66 2879

On this 6th day of April, 2012, before me a Notary Public in and for the County and State aforesaid, personally appeared Paul Moreton, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be of his free act and deed.

Vicki M. McNeal 274341
Notary Public

My Commission Expires Aug 31, 2013

(SEAL)

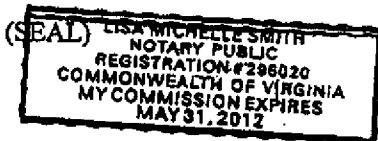


4/5/2012
Date

Thomas D Poole
Thomas POOLE

County of Fairfax)
State of Virginia) ss:

On this 5 day of April, 2012, before me a Notary Public in and for the County and State aforesaid, personally appeared Thomas Poole to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be of his free act and deed.



Lisa Michelle Smith
Notary Public #296020

My Commission Expires May 31, 2012