

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4192534

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
THOMAS S. POOLE	04/05/2012
PAUL YOUNG MORETON	04/06/2012
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:	15290250
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:	202 955 1500
Email:	patdcdoCKET@hunton.com
Correspondent Name:	HUNTON & WILLIAMS LLP
Address Line 1:	2200 PENNSYLVANIA AVENUE, N.W.
Address Line 4:	WASHINGTON, UNITED STATES 20037
ATTORNEY DOCKET NUMBER:	67519.001477
NAME OF SUBMITTER:	DANIEL G. VIVARELLI, JR
SIGNATURE:	/Daniel G. Vivarelli, Jr./
DATE SIGNED:	12/20/2016
Total Attachments: 14	
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION : 15/290,250 CONFIRMATION : 8126
NUMBER : No.
APPLICANT : THOMAS S. POOLE ET AL.
FILED : OCTOBER 11, 2016
TITLE : SYSTEM AND METHOD FOR PROVIDING CONTACTLESS
PAYMENT WITH A NEAR FIELD COMMUNICATIONS
ATTACHMENT
TC/ART UNIT : TBA
EXAMINER: TBA
DOCKET NO. : 67519.001477
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 Application of U.S. Application No. 14/976,661, filed December 21, 2015, which is a Continuation of U.S. Application 14/875,009 filed October 05, 2015, which is a Continuation of U.S. Application 14/156,941 filed January 16, 2014, now U.S. Patent 9,177,312, which is a Continuation 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. 14/976,661) 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: December 20, 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

MARCH 18, 2016

PTAS

HUNTON & WILLIAMS LLP
2200 PENNSYLVANIA AVENUE
WASHINGTON, DC 20037

503742110

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: 03/17/2016

REEL/FRAME: 038016/0118
NUMBER OF PAGES: 13

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

DOCKET NUMBER: 67519.001442

ASSIGNOR:

POOLE, THOMAS S.

DOC DATE: 04/05/2012

ASSIGNOR:

MORETON, PAUL YOUNG

DOC DATE: 04/06/2012

ASSIGNEE:

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

APPLICATION NUMBER: 14976661

FILING DATE: 12/21/2015

PATENT NUMBER:

ISSUE DATE:

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

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3788754

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	THOMAS S. POOLE	04/05/2012
	PAUL YOUNG MORETON	04/06/2012
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:	14976661
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:	67519.001442	
NAME OF SUBMITTER:	DANIEL G. VIVARELLI, JR.	
SIGNATURE:	/Daniel G. Vivarelli, Jr./	
DATE SIGNED:	03/17/2016	
Total Attachments: 11		
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number : 14/976,661 Confirmation No.: 2024
Applicant : Thomas S. POOLE *et al.*
Filed : December 21, 2015
Title : **SYSTEM AND METHOD FOR PROVIDING CONTACTLESS
PAYMENT WITH A NEAR FIELD COMMUNICATIONS
ATTACHMENT**
TC/Art Unit : 2876
Examiner: : *To Be Assigned*
Docket No. : 67519.001442
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 14/875,009 filed October 05, 2015, which is a Continuation of U.S. Application 14/156,941 filed January 16, 2014, now U.S. Patent 9,177,312, which is a Continuation 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. 14/875,009) 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: March 17, 2016

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

Hunton & Williams LLP
Intellectual Property Department
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DGV/mia



DGV/AKT

UNITED STATES PATENT AND TRADEMARK OFFICE

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

FEBRUARY 4, 2016

PTAS

HUNTON & WILLIAMS LLP
2200 PENNSYLVANIA AVENUE
WASHINGTON, DC 20037

FEB -4 2016

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67519.001433

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: 02/03/2016

REEL/FRAME: 037652/0694
NUMBER OF PAGES: 10

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

DOCKET NUMBER: 67519.001433

ASSIGNOR:

POOLE, THOMAS S.

DOC DATE: 04/05/2012

ASSIGNOR:

MORETON, PAUL YOUNG

DOC DATE: 04/06/2012

ASSIGNEE:

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

APPLICATION NUMBER: 14875009

FILING DATE: 10/05/2015

PATENT NUMBER:

ISSUE DATE:

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

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3724036

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	THOMAS S. POOLE	04/05/2012
	PAUL YOUNG MORETON	04/06/2012
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:	14875009	
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:	67519.001433	
NAME OF SUBMITTER:	DANIEL G. VIVARELLI, JR.	
SIGNATURE:	/Daniel G. Vivarelli, Jr./	
DATE SIGNED:	02/03/2016	
Total Attachments: 8		
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PATENT

REEL: 040680 FRAME: 0867

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number : 14/875,009 Confirmation No.: 6265
Applicant : Thomas S. POOLE et al.
Filed : October 5, 2015
Title : SYSTEM AND METHOD FOR PROVIDING CONTACTLESS
PAYMENT WITH A NEAR FIELD COMMUNICATIONS
ATTACHMENT
TC/Art Unit : 2648
Examiner: : Gennadiy TSVEY

Docket No. : 67519.001433
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. 14/156,941, now U.S. Patent 9,177,312, which is a Continuation 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. 14/156,941) 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: 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
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(202) 778-2201 (facsimile)
DGV/mia



DEV/ALK
67519.001348

UNITED STATES PATENT AND TRADEMARK OFFICE

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

JANUARY 17, 2014

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

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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: 01/16/2014

REEL/FRAME: 031986/0422
NUMBER OF PAGES: 7

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

DOCKET NUMBER: 67519.001348

ASSIGNOR:
POOLE, THOMAS S.

DOC DATE: 04/05/2012

ASSIGNOR:
MORETON, PAUL YOUNG

DOC DATE: 04/06/2012

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

APPLICATION NUMBER: 14156941
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 COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2685652

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
THOMAS S. POOLE	04/05/2012
PAUL YOUNG MORETON	04/06/2012
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:	14156941
CORRESPONDENCE DATA	
Fax Number:	(202)778-2201
Phone:	202 955 1500
Email:	patdcdocket@hunton.com
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</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:	67519.001348
NAME OF SUBMITTER:	DANIEL G. VIVARELLI, JR
Signature:	/Daniel G. Vivarelli, Jr./
Date:	01/16/2014

PATENT

REEL: 040680 FRAME: 0870

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number : Unassigned Confirmation No.: Unassigned
Applicant : Thomas S. POOLE et al.
Filed : January 16, 2014
Title : System and Method for Providing Contactless Payment With a Near
Field Communications Attachment
TC/Art Unit : Unassigned
Examiner: : Unassigned

Docket No. : 67519.001348
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: January 16, 2014

By: /Daniel G. Vivarelli, Jr./
Daniel G. Vivarelli, Jr.
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)
DGV/mia

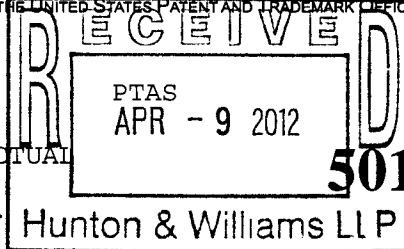


UNITED STATES PATENT AND TRADEMARK OFFICE

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

APRIL 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

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

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

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

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

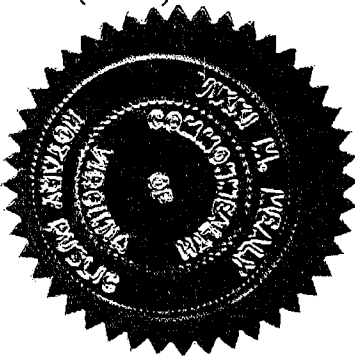
County of Henrico)
State of Virginia) ss: 489 66 2879

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. Realy 274341
Notary Public

My Commission Expires Aug 31, 2013

(SEAL)

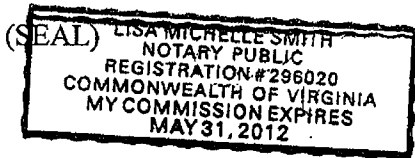


4/5/2012
Date

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