504633384 11/08/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4680102

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JONATHAN D. BRADBURY	09/23/2016
STEVEN R. CARLOUGH	09/27/2016
REID T. COPELAND	09/20/2016
SILVIA MELITTA MUELLER	09/28/2016

RECEIVING PARTY DATA

Name:	INTERNATIONAL BUSINESS MACHINES CORPORATION
Street Address:	NEW ORCHARD ROAD
City:	ARMONK
State/Country:	NEW YORK
Postal Code:	10504

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15806854

CORRESPONDENCE DATA

Fax Number: (518)452-5579

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.

Phone: 518-452-5600

Email: jorden.newkirk@hrfmlaw.com

Correspondent Name: HESLIN ROTHENBERG FARLEY & MESITI P.C.

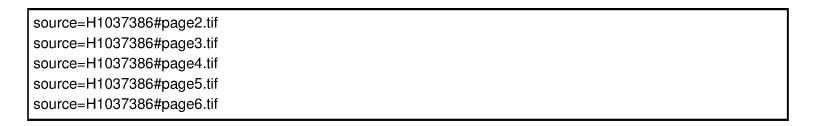
Address Line 1: 5 COLUMBIA CIRCLE

Address Line 4: ALBANY, NEW YORK 12203

ATTORNEY DOCKET NUMBER:	POU920160284US2	
NAME OF SUBMITTER:	BLANCHE E. SCHILLER, ESQ.	
SIGNATURE:	/BLANCHE E. SCHILLER/	
DATE SIGNED:	11/08/2017	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 6 source=H1037386#page1.tif

PATENT 504633384 REEL: 044712 FRAME: 0029



PATENT REEL: 044712 FRAME: 0030

BECLARATION (3" C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT

Title of Committee DECIMAL MULTIPLY AND SHIFT INSTRUCTION

As a Selicial fairned and undersigned inventor. I hereby declare that	
This declaration is directed to the attached application, or (if following box i	s checked);
[] United States application of PCT interactional application number	
The wine tradering and appropriate was made or authorized to be made by me.	
i helieve that I am fee original inventor or an original joint inventor of a claim	ned invention in the

I have reviewed and understand the coments of the application, including the claims,

FAT: aware of the duty to disclose to the United States Patent and Trademark Office all information and the to be material to purentability as defined in 37 CFR Section 1.56.

Whereas, I (*ASSIGNOR) have made certain inventions, improvements, and discoveries (herein referred to us the "invention") disclosed in the above identified patent application and further identified by the Taxon Disclosed Number provided above in the header of this document;

Whereas, intermedial Susmess Machines Corporation (herein referred to as the "ASSIGNEE"), a 2 TOTHER R. (New York having a place of business at Armonk, New York, desires to acquire, and I besire to grant in the ASSIGNEE, my entire worldwide right, title, and interest in and to the Invention and in making any and all patent applications and nations directed (hereto:

therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby actions stiged. I here's sell in have sold, assign or have assigned, and otherwise transfer or have Tunishered to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, the, and interest as and to the invention, the above-identified United States patent application, and and and a second explications and patents for the invention which may be applied for or granted therefore in the United States and in all foreign countries and jurisdictions, including all divisions, communitions, resisting, recomminations, renewals, extensions, counterparts, substitutes, and extensions the end and all regards of smally resulting from the filling of such applications and granting of such THE STATE OF MICH. I hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign ranges, granted for the invention, to the ASSIGNEE, its successors, legal representatives, and assigns, my corre worldwide right, and inferest in and to the same to be held and enjoyed by the ASSIGNEE, its successors, some remesentances and assigns to the full end of the terms for which any and all such meents than be are sell as fally and entirely as would have been held and enjoyed by me had this grame The fact trace and lagree to execute any and all documents and instruments and perform all seven sets to be larger to execute any and all documents and instruments and perform all reland, mass are also contons in the ASS ONEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

Page 1 of 2

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Thereby as an awarding that any willful talse statement made in this declaration is punishable united.

\$ 1000 by the or impresentated as more than five (5) years, or both

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		Read T. Crisophus		Date	
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Signature				Cate filting	•

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REEL: 044712 FRAME: 0032

DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT

Title of Invention: DECIMAL MULTIPLY AND SHIFT INSTRUCTION

As a below named and undersigned inventor. Thereby declare that:
This declaration is directed to the attached application, or (if following box is checked):
[United States application or PCT international application number
The above-identified application was made or authorized to be made by me.
believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
have reviewed and understand the contents of the application, including the claims.
am aware of the duty to disclose to the United States Patent and Trademark Office all information nown to me to be material to patentability as defined in 37 CFR Section 1.56.
Thereas, I ("ASSIGNOR") have made certain inventions, improvements, and discoveries (herein referred) as the "Invention") disclosed in the above-identified patent application and further identified by the 3M Docket Number provided above in the header of this document;

Whereas, International Business Machines Corporation (herein referred to as the "ASSIGNEE"), a corporation of New York having a place of business at Armonk, New York, desires to acquire, and I desire to grant to the ASSIGNEL, my entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto:

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged. I hereby sell or have sold, assign or have assigned, and otherwise transfer or have transferred to the ASSRINEL, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, Thereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to the ASSIGNLE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by me had this Assignment not been made; and I agree to execute my and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns,

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Lacknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to the ASSIGNEE and am unaware of any reason why I may not have the full and unencombered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed, and will not execute, any document or instrument in conflict herewith. Lalso hereby grant the ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

Thereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 100) by flue or imprisonment of not more than five (5) years, or both.

Signature:	Date:
2) Legal Name of Inventor: Steven R. Carlough	
Signature: Steven B. Carlough	Date: 7/27/2016
3) Legal Name of Inventor: Reid T. Copeland	
Signature:	Date:
(4) Legal Name of Inventor: Silvia Melitta Mueller	
Sinsten Silvia M. Muelles	Date: 9/28/201

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Title of Invention: DECIMAL MULTIPLY AND SHIFT INSTRUCTION

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This declaration is directed to the attached application, or (if following box is checked):
[] United States application or PCT international application number
The above-identified application was made or authorized to be made by me.
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
I have reviewed and understand the contents of the application, including the claims.
I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, I ("ASSIGNOR") have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application and further identified by the IBM Docket Number provided above in the header of this document;

Whereas, International Business Machines Corporation (herein referred to as the "ASSIGNEE"), a corporation of New York having a place of business at Armonk, New York, desires to acquire, and I desire to grant to the ASSIGNEE, my entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, I hereby sell or have sold, assign or have assigned, and otherwise transfer or have transferred to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, I hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by me had this Assignment not been made; and I agree to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

Page 1 of 2

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to the ASSIGNEE and am unaware of any reason why I may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed, and will not execute, any document or instrument in conflict herewith. I also hereby grant the ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

(1) Legal Name of Inventor. Sonathan D. Bradbury	
Signature:	Date:
(2) Legal Name of Inventor: Steven R. Carlough	
Signature:	Date:
(3) Legal Name of Inventor: Reid T. Copeland Signature:	Date: September 26/2016
(4) Legal Name of Inventor: Silvia Melitta Mueller	
Signature:	Date:

Page 2 of 2