

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5881183

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT										
NATURE OF CONVEYANCE:	Corrective Assignment to correct the THIRD ASSIGNOR'S NAME TO ASHIM DUTTA previously recorded on Reel 051127 Frame 0443. Assignor(s) hereby confirms the ASSIGNMENT.										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>MICHAEL RIZZOLO</td><td>11/20/2019</td></tr><tr><td>THEODORUS E. STANDAERT</td><td>11/27/2019</td></tr><tr><td>ASHIM DUTTA</td><td>11/20/2019</td></tr><tr><td>DOMINIK METZLER</td><td>11/20/2019</td></tr></tbody></table>	Name	Execution Date	MICHAEL RIZZOLO	11/20/2019	THEODORUS E. STANDAERT	11/27/2019	ASHIM DUTTA	11/20/2019	DOMINIK METZLER	11/20/2019	
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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											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>16697452</td></tr></tbody></table>	Property Type	Number	Application Number:	16697452							
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Application Number:	16697452										
CORRESPONDENCE DATA											
Fax Number:	(631)844-0081										
<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:	6318440080										
Email:	sschmidt@tb-iplaw.com										
Correspondent Name:	TUTUNJIAN & BITETTO P.C.										
Address Line 1:	401 BROADHOLLOW ROAD, SUITE 402										
Address Line 4:	MELVILLE, NEW YORK 11747										
ATTORNEY DOCKET NUMBER:	P201901480US01 (M2369)										
NAME OF SUBMITTER:	JAMES J. BITETTO										
SIGNATURE:	/James J. Bitetto/										
DATE SIGNED:	12/23/2019										
	This document serves as an Oath/Declaration (37 CFR 1.63).										
Total Attachments: 4											

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source=P201901480US01_Assign_CoverSheet_11-27-19#page4.tif

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: **PILLAR-BASED MEMORY HARDMASK SMOOTHING AND STRESS REDUCTION**

As a below named and undersigned inventor, I hereby declare that:

This declaration is directed to the application that was sent to me by email from thinkip@us.ibm.com on or about 2019-11-20.

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 C.F.R. § 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.

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.

Signature:  E-SIGNED by /Michael Rizzolo/

Date: 2019-11-20

(1) Legal Name of Inventor: **Michael Rizzolo**

Signature:  E-SIGNED by /Theodorus E. Standaert/

Date: 2019-11-27

(2) Legal Name of Inventor: **Theodorus E. Standaert**

Signature:  E-SIGNED by /Ashim DUTTA/

Date: 2019-11-20

(3) Legal Name of Inventor: **Ashim DUTTA**

Signature:  E-SIGNED by /Dominik METZLER/

Date: 2019-11-20

(4) Legal Name of Inventor: **Dominik METZLER**

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Total Attachments: 2 source=P201901480US01_Assign-Dec#page1.tif source=P201901480US01_Assign-Dec#page2.tif	
RECEIPT INFORMATION EPAS ID: PAT5841779 Receipt Date: 11/27/2019	