PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3638794

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DAVID V. HORAK	03/19/2014
EFFENDI LEOBANDUNG	03/18/2014
STEFAN SCHMITZ	03/18/2014
JUNLI WANG	03/18/2014

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:	14956524	

CORRESPONDENCE DATA

Fax Number: (845)849-3688

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: 8458493686

Email: idb@bleckeriplaw.com

Correspondent Name: LAW OFFICES OF IRA D. BLECKER, P.C.

Address Line 1: 206 KINGWOOD PARK

Address Line 4: POUGHKEEPSLE, NEW YORK 12601

ATTORNEY DOCKET NUMBER:	YOR920120141US2
NAME OF SUBMITTER: IRA D. BLECKER	
SIGNATURE:	/Ira D Blecker/
DATE SIGNED:	12/02/2015
This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 8

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PATENT REEL: 037187 FRAME: 0005

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PATENT REEL: 037187 FRAME: 0006

DECLARATION (TO FR. 140) FOR LITEUTY PATENT APPLICATION UNING AN APPLICATION DATA SHEET OF CARE LEG AND ASSIGNMENT

No. of Investment METAL GATE

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Whereas I = 3,550 NOK is have made certain inventions, ingrovements, and discoveries therein referred to as the "Invention" I discovered in the above identified patent application and further identified by the IBM Daster Number provided above in the header of this document.

Note that the property of the control of the contro and the second section in the second and the second section in the second condition which transfer or have produced to the ACACOCC and account against continue and account to come with the rich and graf region is and to the forestion, the above identified United States patest agriculture, and are and all other potent applications and parents for the Invention which may be applied for or granted therefore in the Extract Section (see Exercise) in a Company construction and construction in the Company of the Company contractions contact resignations research extensions counterparts substitutes and extensions thereof, and all rights of privary resulting from the filling of such applications and greating of such palatics. In existing, I have a public properly respect the Director of the Council States Palatic and Trademark Office to reacción United Nates Parest, and foreign patent authorities to seucción foreign parent, product for the freezione, to the ASSIGNEE, as successes, leading representatives, and discuss to vi-and the first translatives, and according to the full and of the form the which are not all buch paratic transfer graded, as followed energy as would have been bell and energy to me had the resident parette and explications, in the ACSIC COLD, in concessors, building recognition and parette.

Page 1 of 1

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 unexamined right to sell as ign, 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 gran 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 Numbers which may be accessary or destrable for recordation of this Assignment. This Assignment is governed by the accessary or destrable for recordation of this Assignment, will be resolved in a New York state course abstraction should have York.

Thereby acknowledge that any willful take statement made in this declaration is punishable under 18 U.S.C. 1891 by five or imprisonment of not more than five (5) years, or both.

Company of Invenor David Voltoria	Date 3/19/2016
Signature	Date 27 17 22
(2) Legal Name of Pivernor: Effendi Leobandung	
Sgrature	<u>Dete</u>
(3) Legal Name of Inventor Stefan Schmitz	
Service	Date
(4) Legal Name of Investor; Junii Wang	
Signature	Date

[18 MORE INVENTORS ADDITIONAL SIGNATURE PAGES) FOLLOWS:

PATENT REEL: 037187 FRAME: 0008

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: REPLACEMENT METAL GATE

As a below named and undersigned inventor, I hereby 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.
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

IBM DOCKET NUMBER: YOR920120141US1

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 bereby 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: David V. Horak		
	Signature:	Date:	
(2)	Legal Name of Inventor; Effendi Leohandun		
	Signature:	$\frac{3}{18/2014}$	
(3)	Legal Name of Inventor; Stefan Schmitz		
	Signature:		
(4)	Legal Name of Inventor: Junli Wang		
	Signature:	Date:	

[IF MORE INVENTORS, ADDITIONAL SIGNATURE PAGE(S) FOLLOWS]

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: REPLACEMENT METAL GATE

As a below named and undersigned inventor, I hereby declare that:	
This declaration is directed to the attached application, or (if following box is checked):	
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The above-identified application was made or authorized to be made by me.	
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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

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(1)	Legal Name of inventor: David V. Horak	
	Signature:	_ Date:
(2)	Legal Name of Inventor: Effendi Leobandung	
	Signature:	Date:
(3)	Legal Name of Inventor: Stefan Schmitz	
	Signature: All Selle C	
(4)	Legal Name of Inventor: Junii Wang	
	Signature:	Date:

[IF MORE INVENTORS, ADDITIONAL SIGNATURE PAGE(S) FOLLOWS]

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

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(1)	Legal Name of Inventor: David V. Horak	
	Signature:	Date
(2)	Legal Name of Inventor: Effendi Leobandung	
	Signature:	Date:
(3)	Legal Name of Inventor: Stefan Schmitz	
	Signature:	Date:
(4)	Legal Name of Inventor: Junti Wang	
	Signature: ()	0site:3 -18-2 014

[IF MORE INVENTORS, ADDITIONAL SIGNATURE PAGE(S) FOLLOWS]

Page 2 of 2