### 505407052 04/02/2019

### PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
ARINDAM BHOWMICK	06/16/2017
CARLOS CHIVARDI	06/22/2017
JENNIFER M. HATFIELD	06/18/2017
GREGORY S. HURLEBAUS	06/19/2017
JOSEF SCHERPA	06/19/2017

### **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:	16373145

### **CORRESPONDENCE DATA**

**Fax Number:** (507)253-5334

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:** 914-945-2947

**Email:** rocdrctr@us.ibm.com

Correspondent Name: IBM CORP-ROCHESTER DRAFTING CENTER

Address Line 1: T.J. WATSON RESEARCH CENTER

Address Line 2: 1101 KITCHAWAN ROAD, ROUTE 134, P.O. BOX

Address Line 4: YORKTOWN, NEW YORK 10598

ATTORNEY DOCKET NUMBER:	YOR920170031US02	
NAME OF SUBMITTER:	KATIE V. CHAPMAN	
SIGNATURE:	/Katie V. Chapman/	
DATE SIGNED:	04/02/2019	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

PATENT REEL: 048772 FRAME: 0013

505407052

# Total Attachments: 10 source=YOR920170031US02\_SignedAssignment-Declaration#page1.tif source=YOR920170031US02\_SignedAssignment-Declaration#page2.tif source=YOR920170031US02\_SignedAssignment-Declaration#page3.tif source=YOR920170031US02\_SignedAssignment-Declaration#page4.tif source=YOR920170031US02\_SignedAssignment-Declaration#page5.tif source=YOR920170031US02\_SignedAssignment-Declaration#page6.tif source=YOR920170031US02\_SignedAssignment-Declaration#page7.tif source=YOR920170031US02\_SignedAssignment-Declaration#page8.tif source=YOR920170031US02\_SignedAssignment-Declaration#page9.tif source=YOR920170031US02\_SignedAssignment-Declaration#page9.tif source=YOR920170031US02\_SignedAssignment-Declaration#page10.tif

PATENT REEL: 048772 FRAME: 0014

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

Tide of Invention: COUNTERINTUITIVE RECOMMENDATIONS BASED UPON TEMPORARY CONDITIONS

As a below	named and undersigned inventor, I hereby declare that:	
This declar	ation is directed to the attached application, or (if following box is checked):	
[ ] United filed on	tates application or PCT international application number	
The above-	dentified application was made or authorized to be made by me.	
I believe th application	t I am the original inventor or an original joint inventor of a claimed invention in the	
have revie	ved and understand the contents of the application, including the claims.	
am aware mown to m	of the duty to disclose to the United States Patent and Trademark Office all information to be material to patentability as defined in 37 C.F.R. § 1.56.	
wile se	'ASSIGNOR") have made certain inventions, improvements, and discoveries (herein refer rention") disclosed in the above-identified patent application and further identified by the Number provided above in the header of this document:	re
Vherenc In	emational Daviness & L. Line	

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.

(1) Legal Name of Inventor: Arindam Bhowmick	
Signanure: Avindam Bhownick	Date: June 16th, 2017
(2) Legal Name of Inventor: Carlos Chivardi	
Sionatura	
Signature:	Date:
(3) Legal Name of Inventor: Jennifer M. Hatfield	
Signature:	Date:
4) Legal Name of Inventor: Gregory S. Hurlebaus	
Signature:	Date:
5) Legal Name of Inventor: Josef Scherpa	
Signature:	Date:

Page 2 of 2

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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.

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Signature:	Date:
(2) Legal Name of Inventor: Carlos Chivardi Signature:	
(3) Legal Name of Inventor: Jennifer M. Hatfield	
Signature:	Date:
(4) Legal Name of Inventor: Gregory S. Hurlebaus	
Signature:	Date:
(5) Legal Name of Inventor: Josef Scherpa	
Signature:	Date:

Page 2 of 2

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Signature:	Date:
(2) Legal Name of Inventor: Carlos Chivardi	
Signature:	Date:
(3) Legal Name of Inventor: Jennifer M. Hatfield  Signature:	Date: <b>06.</b> 18.17
(4) Legal Name of Inventor: Gregory S. Hurlebaus	
Signature:	Date:
(5) Legal Name of Inventor: Josef Scherpa	
Signature:	Date:

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	Signature:	Date:
(4)	Legal Name of Inventor: Gregory S. Hurlebaus	
	Signature: A A A	Date: 6/19/2017
(5)	Legal Name of Inventor: Josef Scherpa	
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Signature:	Date:
(5) Legal Name of Inventor: Josef Scherpa	
Signature: Josef Selus	Date: June 19, 2017

Page 2 of 2