PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PEDRO M. BARBAS	06/02/2016
KONRAD EMANOWICZ	06/02/2016
ENDA MCCALLIG	06/02/2016
ASLAM F. NOMANI	06/02/2016
LEI PAN	06/02/2016

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:	15173982

CORRESPONDENCE DATA

Fax Number: (607)429-4119

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: 408-463-5675

Email: rlgalush@us.ibm.com

Correspondent Name: IBM CORPORATION - ENDICOTT DRAFTING CENT

Address Line 1: 555 BAILEY AVENUE, IPLAW, J46/G4

Address Line 4: SAN JOSE, CALIFORNIA 95141

ATTORNEY DOCKET NUMBER:	GB920160033US1
NAME OF SUBMITTER:	STEVEN F. MCDANIEL
SIGNATURE:	/Steven F. McDaniel/
DATE SIGNED:	06/06/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 4

PATENT REEL: 038815 FRAME: 0282

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PATENT REEL: 038815 FRAME: 0283

BM DOCKET NUMBER: GB920160033US1

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

Talk of Invention: TEST DATA MANAGEMENT

As a below gamed and undersigned insenter. Thereby declare that	
This declaration is directed to the attached application, or (if following box is effected):	
United States application or PCT international application number filed on	
The above identified application was made or authorized to be made by me	
Thelieve that I am the original inventor or an original part inventor of a claimed invention in the application.	
Thave reviewed and maderstand the contents of the application, including the claims.	

Lam aware of the didy to disclose to the United States Patern and Trademark Office all information known to be material to paternability as defined in 37 CFR Section 1.56.

Whereas, I ("ASSKONOR") have made certain inventions, improvements, and discoveries therein referred to as the "Invention") disclosed in the above identified patent application and further identified by the IBM Dacket Number provided above in the header of this discinion.

Whereas, International Business Machines Corporation (berein 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, as successors, legal representatives, and assigns, my entire worldwide ngth, title, and interest in and to the Invention, the above-identified United States placet application, and any and all other pages applications and pagents for the Invention which may be applied for or granted therefor in the United States and in all foreign contines and junisdictions, including all divisions, continuations, gessues, gessummations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filling of such applications and granting of such potents. In addition, Diesery authorize and request the Director of the United States Patent and Tradenact Office to usual say United States Patent, and foreign patent anhances or issue any foreign patent, granted for the invention, to the ASSIGNEE, its successors, legal representatives, and assigns, my erang worldwide right, take, and interest in and to the same to be held and emoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such pasents may be gramed, as fully and emirely as would have been held and emoyed by me had this Assignment his been made, and Lagrer to execute any and all discontents and instruments and perform all tawing acts reasonably related to recording this Assignment or perfecting this to the invention and all ectated patents and applications, in the ASSKONEE, its successive logal representatives, and assigns. whenever requested by the ASSKINEE, its successors legal representatives, or assigns-

Page 1 of 2

IBM DECKET NUMBER: G8920160033USI

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to the ASSIGNEE and an unaware of any reason why I may not have the full and unexcombered right to sell, assign, and transfer my rights beneby sold, assigned, and transferred, and have not executed, and will not execute, any document or instrument in conflict berewith. I also bereby grant the ASSIGNEE, its successors, legal representatives, and assigns the right to insert in this Assignment any further identification (including, but not himsted to patent Application Number) which may be necessary or desirable for recondation 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 toderal court stied in New York.

Thereby acknowledge that any willful false statement made in this declaration is panishable under 18 U.S.C. 1801 by fine or improvement of not more than five (5) years, or both.

11: Leval Name of Inventor: Pedro M. Barbas

Signature: Park Market	Date: 04/96/46
(2) Legal Name of Inventor: Konrad Emanowicz	
Signature: 1998) O. S. L.	Date: 02/04/6
(3) Legal Name of Invenor: Enda McCallig	
September 644 14 64	Date: 07/04/16
(4) Legal Name of Invenior: Aslam F. Nomani	
Signature	Date
(5) Legal Name of Inventor: Lei Pan	
Signature: / / / / Paor 2 of 2	Date:

PATENT REEL: 038815 FRAME: 0285

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: TEST DATA MANAGEMENT

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

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;

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;

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 DXXXET NUMBER: GB920160033US1

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to the ASSIGNEE and an unaware of any reason why I may not have the full and unexcumbered 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 destrable 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. 1001 by fine or imprisonment of not more than five (5) years, or both.

(1) Legal Name of Inventor: Pedro M. Barbas	
Signature: Balver Magalla Och Paula	Date: 02/06/46
(2) Legal Name of Inventor: Konrad Emanowicz	
Signature: <u>HOWAL Empropial</u>	Date: 02/06/16
(3) Legal Name of Inventor: Enda McCallig	
Signature:	Date:
(4) Legal Name of Inventor: Aslam F. Nomani	
Signature: 2/2	Date: 02/06/16
(5) Legal Name of Inventor: Lei Pan	
Signature: Page 2 of 2	

PATENT REEL: 038815 FRAME: 0287

RECORDED: 06/06/2016