### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3141975

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
PAUL R. BASTIDE	11/10/2014
MATTHEW E. BROOMHALL	11/19/2014
ROBERT E. LOREDO	11/10/2014
DALE M. SCHULTZ	11/11/2014
SHUNGUO YAN	11/09/2014

#### 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:	14566570

#### **CORRESPONDENCE DATA**

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Address Line 4: SALT LAKE CITY, UTAH 84111

ATTORNEY DOCKET NUMBER:	RSW920140175US1
NAME OF SUBMITTER:	STEVEN L. NICHOLS
SIGNATURE:	/STEVEN L. NICHOLS/
DATE SIGNED:	12/10/2014
	This document serves as an Oath/Declaration (37 CFR 1.63).

**Total Attachments: 10** 

PATENT

**REEL: 034467 FRAME: 0879** 503095369



PATENT REEL: 034467 FRAME: 0880

## 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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Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor ("ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to IBM (the "ASSIGNEE"), its successors, legal representatives, and assigns, the 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, each undersigned inventor hereby authorizes and requests 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 IBM. its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by IBM, 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 the undersigned had this Assignment not been made; and each undersigned inventor agrees 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

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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: PAUL R. BASTIDE	
Signature: AAAAA	Date: <u>10 - NOV - 7</u> 014
(2) Legal Name of Inventor: MATTHEW E. BROOMHALL	
Signature:	Date:
(3) Legal Name of Inventor: ROBERT E. LOREDO	
Signature:	Date:
(4) Legal Name of Inventor: DALE M. SCHULTZ	
Signature:	Date:
(5) Legal Name of Inventor: SHUNGUO YAN	
Signature:	Date:

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(1)	Legal Name of Inventor: PAUL R. BASTIDE	
	Signature:	
(2)	Legal Name of Invertor: MATTALEW E. BROOMHALL Signature:	Date: ///(9///
(3)	Legal Name of Inventor: ROBERT E. LOREDO	
	Signature:	Date:
(4)	Legal Name of Inventor: DALE M. SCHULTZ	
	Signature:	Date:
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(1) Legal Name of Inventor: PAUL R. BASTIDE		
Signature:	Date:	
(2) Legal Name of Inventor; MATTHEW E. BROOMHALL	*	and a first section of the section o
Claratura	Datas	
Signature:	Date:_	
(3) Legal Name of Inventor: ROBERT E. LOREDO		
Signature:	Date:	1/10/14
	And the second section of the second	
(4) Legal Name of Inventor; DALE M. SCHULTZ		
Signature:	Date:	:
(5) Legal Name of Inventor; SHUNGUO YAN	1.	
•		
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(1) Legal Name of Inventor; PAUL R. BASTI	DE	
Signature:	A Mariana hara a dalah sana a	Date:
(2) Legal Name of Inventor: MATTHEW E. F	BROOMHALL	
Signature:		Date:
(3) Legal Name of Inventor: ROBERT E. LOI	REDO	
Signature:		Date:
(4) Legal Name of Inventor: DALE M. SCHU	t.TZ	
Signature:		Date: Nov 11, 2014
And the second s		and the second s
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	Signaturo: Nuntuo Can Page 2012	Date: 11/9/2010

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**RECORDED: 12/10/2014**