# 504709324 12/31/2017

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4756046

		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY D	ΑΤΑ			
		Name		Execution Date
CATHERINE H. CRAW	FORD			05/10/2017
KONSTANTINOS KATE	RINIS			05/18/2017
PIOTR PADKOWSKI				05/10/2017
ANDREA REALE				05/09/2017
RECEIVING PARTY D	ΑΤΑ			
Name:	INTER	NATIONAL BUSINESS MACHINE	S CORPORATI	ON
Street Address:	New O	rchard Road		
City:	Armon	Armonk		
State/Country:	NEW Y	ORK		
Postal Code:	10504			
Property Type				
		Number		
		Number 15859565		
Application Number:				
Application Number: CORRESPONDENCE I Fax Number:	DATA	(203)517-9615		
Application Number: CORRESPONDENCE I Fax Number: Correspondence will b	DATA	15859565 (203)517-9615 • <b>the e-mail address first; if that</b>		
Application Number: CORRESPONDENCE I Fax Number: Correspondence will k using a fax number, if	DATA De sent to provideo	(203)517-9615		
Application Number: CORRESPONDENCE I Fax Number: <i>Correspondence will L using a fax number, if</i> Phone:	DATA De sent to provideo	15859565 (203)517-9615 <b>The e-mail address first; if that</b> <b>I; if that is unsuccessful, it will l</b>		
Application Number: CORRESPONDENCE I Fax Number: Correspondence will b	DATA De sent to provideo	15859565 (203)517-9615 <b>5 the e-mail address first; if that</b> <b>1; if that is unsuccessful, it will l</b> 203 433 3157	be sent via US I	Mail.
Application Number: CORRESPONDENCE I Fax Number: Correspondence will k using a fax number, if Phone: Email: Correspondent Name: Address Line 1:	DATA De sent to provideo	15859565 (203)517-9615 <b>5 the e-mail address first; if that</b> <b>1; if that is unsuccessful, it will l</b> 203 433 3157 docket@oeklaw.com OTTERSTEDT, ELLENBOGEN & P.O. BOX 381	<b>be sent via US I</b> KAMMER, LLP	Mail.
Application Number: CORRESPONDENCE I Fax Number: <i>Correspondence will k</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1:	DATA De sent to provideo	15859565 (203)517-9615 <b>5 the e-mail address first; if that</b> <b>1; if that is unsuccessful, it will l</b> 203 433 3157 docket@oeklaw.com OTTERSTEDT, ELLENBOGEN &	<b>be sent via US I</b> KAMMER, LLP	Mail.
Application Number: CORRESPONDENCE I Fax Number: <i>Correspondence will L using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4:	DATA De sent to provideo	15859565 (203)517-9615 <b>5 the e-mail address first; if that</b> <b>1; if that is unsuccessful, it will l</b> 203 433 3157 docket@oeklaw.com OTTERSTEDT, ELLENBOGEN & P.O. BOX 381	<b>be sent via US I</b> KAMMER, LLP	Mail.
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Application Number: CORRESPONDENCE I Fax Number: <i>Correspondence will k</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1:	DATA be sent to provideo UMBER:	15859565 (203)517-9615 <b>b the e-mail address first; if that</b> <b>l; if that is unsuccessful, it will l</b> 203 433 3157 docket@oeklaw.com OTTERSTEDT, ELLENBOGEN & P.O. BOX 381 COS COB, CONNECTICUT 0680 YOR920170113US02	<b>be sent via US I</b> KAMMER, LLP	Mail.
Application Number: CORRESPONDENCE I Fax Number: <i>Correspondence will k</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER: SIGNATURE:	DATA be sent to provideo UMBER:	15859565 (203)517-9615 <b>b the e-mail address first; if that</b> <b>if that is unsuccessful, it will l</b> 203 433 3157 docket@oeklaw.com OTTERSTEDT, ELLENBOGEN & P.O. BOX 381 COS COB, CONNECTICUT 0680 YOR920170113US02 PAUL J. OTTERSTEDT	<b>be sent via US I</b> KAMMER, LLP	Mail.
Application Number: CORRESPONDENCE I Fax Number: <i>Correspondence will k</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER:	DATA be sent to provideo UMBER:	15859565 (203)517-9615 <b>b the e-mail address first; if that</b> <b>if that is unsuccessful, it will l</b> 203 433 3157 docket@oeklaw.com OTTERSTEDT, ELLENBOGEN & P.O. BOX 381 COS COB, CONNECTICUT 0680 YOR920170113US02 PAUL J. OTTERSTEDT /PAUL J. OTTERSTEDT/	<b>be sent via US I</b> KAMMER, LLP 7-0381	Vail.

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## 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: DYNAMIC GRAPH ADAPTATION FOR STREAM PROCESSING OVER HYBRID, PHYSICALLY DISPARATE ANALYTICS PLATFORMS

As a below named inventor, I hereby declare that:

This declaration is directed to the attached application, or (if following box is checked):

[k] United States application or PCT international application number 15598751 filed on 18-MAY-2017.

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, the undersigned inventor(s) has/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, a corporation of New York having a place of business at Armonk, New York (herein referred to as "IBM"), desires to acquire, and each undersigned inventor desires to grant to IBM, the 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, 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 IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal representatives, or assigns.

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Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned inventor also hereby grants IBM, 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.

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: Catherine H. Crawford

2/1/ Date: 10 Mary 2017 Signature: (2) Legal Name of Inventor: Kostas Katrinis Signature: Date (3) Legal Name of Inventor: Piotr Padkowski Signature: Date: (4) Legal Name of Inventor: Andrea Reale Signature: Date.

Page 2 of 2

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(1) Legal Name of Inventor: Catherine H. Crawford	
Signature:	Date:
(2) Legal Name of Inventor: Konstantinos Katrinis Signature:	
(3) Legal Name of Inventor: Piotr Padkowski	
Signature:	Date:
(4) Legal Name of Inventor: Andrea Reale	
Signatura	Datas

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(1) Legal Name of Inventor: Catherine H. Crawford	
Signature:	Date:
(2) Legal Name of Inventor: Kostas Katrinis	
Signature:	Date:
(3) Legal Name of Inventor: Piotr Padkowski	
Signature: Pictr Packassi	Date: 10 MAY 2017-
(4) Legal Name of Inventor: Andrea Reale	

Signature:\_\_\_\_\_Date:\_\_\_\_\_

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(1) Legal Name of Inventor: Catherine H. Crawford

## IBM DOCKET NUMBER: YOR920170113US1

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Signature:	Date:
(2) Legal Name of Inventor:	
Signature:	Date:
(3) Legal Name of Inventor: Piotr Padkows	ki.
Signature:	Date:
(4) Legal Name of Inventor: Andrea Reale Signature: Mar Mark	Date: May 9, 2012

Page 2 of 2

PATENT REEL: 044510 FRAME: 0047

**RECORDED: 12/31/2017**