PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2581743

| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT | |
|-----------------------|---|--|
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the NAMES OF ASSIGNOR LOCKE AND ASSIGNEE previously recorded on Reel 031301 Frame 0306. Assignor(s) hereby confirms the NAME OF ASSIGNOR LOCKE TO BE RICHARD A. LOCKE AND ASSIGNEE S NAME TO BE INTERNATIONAL BUSINESS MACHINES CORPORATION. | |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------|----------------|
| CHRISTOPHER N. DODSON | 08/30/2013 |
| KEITH R. WALKER | 08/23/2013 |
| BRIAN M. O'CONNELL | 08/29/2013 |
| RICHARD A. LOCKE | 08/29/2013 |

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: | 14039769 | |

CORRESPONDENCE DATA

502536371

Fax Number: (518) 452 - 5579 518-452-5600 Phone: Email: Imc@hrfmlaw.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful. HESLIN ROTHENBERG FARLEY & MESITI P.C. Correspondent Name:

Address Line 1: **5 COLUMBIA CIRCLE** Address Line 4: ALBANY, NEW YORK 12203

ATTORNEY DOCKET NUMBER: 4648.015A

PATENT

REEL: 031433 FRAME: 0389

| NAME OF SUBMITTER: | MATTHEW M. HULIHAN |
|--|--|
| Signature: | /Matthew M. Hulihan/ |
| Date: | 10/17/2013 |
| | This document serves as an Oath/Declaration (37 CFR 1.63). |
| Total Attachments: 12 source=4648015_CARCS#page1.tif source=4648015_CARCS#page2.tif source=4648015_CARCS#page3.tif source=4648015_CARCS#page4.tif source=4648015_CARCS#page5.tif source=4648015_CARCS#page6.tif source=4648015_CARCS#page7.tif source=4648015_CARCS#page8.tif source=4648015_CARCS#page9.tif source=4648015_CARCS#page10.tif source=4648015_CARCS#page11.tif source=4648015_CARCS#page11.tif | |

PATENT REEL: 031433 FRAME: 0390

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE: **NEW ASSIGNMENT**

NATURE OF CONVEYANCE: **ASSIGNMENT**

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------|----------------|
| Christopher N. Dodson | 08/30/2013 |
| Keith R. Walker | 08/23/2013 |
| Brian M. O'Connell | 08/29/2013 |
| Richard Locke | 08/29/2013 |

RECEIVING PARTY DATA

| Name: | International Business Machines |
|-----------------|---------------------------------|
| Street Address: | New Orchard Road |
| City: | Armonk |
| State/Country: | NEW YORK |
| Postal Code: | 10504 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14039769 |

CORRESPONDENCE DATA

Fax Number:

5184525579

Phone:

518-452-5600

Email:

lmc@hrfmlaw.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it

will be sent via US Mail.

Correspondent Name: HESLIN ROTHENBERG FARLEY & MESITI PC

Address Line 1:

5 COLUMBIA CIRCLE

Address Line 4:

ALBANY, NEW YORK 12203

REEL: 031433 FRAME: 0391

| ATTORNEY DOCKET NUMBER: | AUS920080052US2 | |
|-------------------------|--|--|
| NAME OF SUBMITTER: | Matthew M. Hulihan | |
| Signature: | /Matthew M. Hulihan/ | |
| Date: | 09/27/2013 | |
| | This document serves as an Oath/Declaration (37 CFR 1,63). | |

Total Attachments: 8

source=AUS920080052US2_Assignment_AsFiled#page1.tif source=AUS920080052US2_Assignment_AsFiled#page2.tif source=AUS920080052US2_Assignment_AsFiled#page3.tif source=AUS920080052US2_Assignment_AsFiled#page4.tif source=AUS920080052US2_Assignment_AsFiled#page5.tif source=AUS920080052US2_Assignment_AsFiled#page6.tif source=AUS920080052US2_Assignment_AsFiled#page7.tif source=AUS920080052US2_Assignment_AsFiled#page8.tif

RECEIPT INFORMATION

EPAS ID:

PAT2557829

Receipt Date:

09/27/2013

Fee Amount:

\$40

REEL: 031433 FRAME: 0392

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: METHOD AND SYSTEM FOR PREDICTIVE BROWSING

As a below named inventor, I hereby declare that:

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

[X] United States application or PCT international application number 14/039,769 filed on 09/27/2013.

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.

Page 1 of 2

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 cited 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. Chais for the an bobson | | |
|-----|---|-------|----------|
| | Signature: Christian N Jodan | Date: | 130/2013 |
| (2) | Legal Name of Inventor; KEITH R. WALKER | | |
| | Signature: | Date: | |
| (3) | Legal Name of Inventor: BRIAN M. O'CONNELL | | |
| | Signature: | Date: | |
| (4) | Legal Name of Inventor: RICHARD LOCKE | | |
| | Signature: | Date: | |

IBM DOCKLE NOMBLE: At \$0200800521 82

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, All 1410D AND SYSTEM FOR PREDICTAL BROWSING

As a below named nivemor, Thereby declare that

This declaration is discred to the attached application, or (it tollowing box is checked)

[X] United States application of PCT international application number filled on 09/27/2013.

14/039,769

The above adentificatinplication was made or authorized to be made by the

I believe that I am the original inventor or an original joint inventor of a claimed inventorial three was a supplication.

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Whereas International Business Machines Corporation, a corporation of New York having a place of business at Armonk. New York (herein referred to as "IBAF"), desires to acquire, and each indersigned account desires to grant to IBM, the entire worldwide right, title, and interest in and to the Inventor't induce and to any and all patent applications and patents directed (hereto;

Now, therefore, for good and valuable consideration, the recept and sufficiency thereof being hereby acknowledged, each understuned inventor ("ASSIGNOR") hereby sells or has sold, a sagn) or has absorption de and otherwise transfers or has transferred to IBM (the "ASSIGNFE"), its successors degalis presentatives, and assums, the entire worldwide right, title, and interest in and to the hygoritan, 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, commutations, reissues, reesaurinations, tenewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the tiling of such applications and granting of such patents. In addition, each undersigned inventor hereby unthorizes and requests the Director of the United States Patent and Trademark Office to issue any-United States Patern, and foreign patent authorities to issue any foreign patent, granted for the Invention, to IBM, 4) successors, legal representatives, and assigns, the entire worldwide right, title, and interest in sud to the same to be held and emoved 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 emoved by the undersigned had this. Assignment not been under and each undersigned inventor agrees to execute any and all documents and instruments and perform all lawful act, reasonably related to: recording this Assignment or perfecting title to the Invention and all related patents and applications, in IBME as successors, fepal representatives, and assigns, whenever requested by IBME its successors, legal representatives, or usaging

Page Fol 3

HINT DOCKET NUMBER: A4-S920080052US2

Facilitations of inventor action below before their prior and ongoing obligations to sell, assign, and frainsfer, the rights maker the Assignment to IBM and is unaware of any tensor why they may not have the full, and make uniforced right to sell, as a proposed to the rights hereby sold, assigned, and markened, and harstened, and markened, and markened, and markened, and markened to executed, and will not execute, any document or instrument in conflict herewith. Each undersigned to each absolute by craims IBM at successor. Total representatives understignes, the right understined to this Assignment and in their identification (mediation but not limited to, patent Application Number) which may be uccessory or desirable for recordation of this Assignment. This Assignment is governed by the allocations of the State of New York, and any disputes will be resolved in a New York signed to a read or federal count end in New York.

Fig. 1994 by acknowledge that any willful halve statement made in this declaration is punishable under 18 C. 8 C. 1994 by fine or impresonment of not more than five (5) years or both.

| (1) Legal Same of Inventor CHRISTOPHER N. DODSON | না । । । । । । । । । । । । । । । । । । । |
|--|--|
| Signature | Date |
| (2) E. gan Saure of hivenfort KEHIII R. WALKER | |
| STABLE R. Walker | Date. Aug. 23, 2013 |
| est Jegal Name of Inventor, BRIAN M. O'CONNELL. | |
| | Date: |
| 2. C. E. gal 'Same of Inventor'. RICHARD LOCKF | |
| Sacioture | Date: |

Page 5 of 3

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 filling 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,

Page 1 of 2

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| (1) began Name of Inventor: CHRISTOPHER N. DODSON | |
|---|----------------|
| Signature: | Date: |
| (2) Legal Name of Inventor: KEITH R. WALKER | |
| Signature; | Date: |
| (3) Legal Name of Inventor: BRIAN M. O'CONNELL | |
| Signature: Bu M Crus | Date: 8/242013 |
| (4) Legal Name of Inventor: RICHARD LOCKE | |
| Signature: | Date: |

Page 2 of 2

** TOTAL PAGE.02 **

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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Page 1 of 2

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| (1) Legal Name of Inventor: CHRISTOPHER N. DODSON | | |
|---|-------|---------|
| Signature: | Date: | |
| (2) Legal Name of Inventor: KEITH R. WALKER | | |
| Signature: | Date: | |
| (3) Legal Name of Inventor: BRIAN M. O'CONNELL | | |
| Signature: | Date: | |
| (4) Legal Name of Inventor: RICHARD A. LOCKE | | |
| Signature Studed a Ray | Date: | 8/27/13 |

Page 2 of 2

PATENT REEL: 031433 FRAME: 0400