505760324 11/06/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5807139

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MURTHY DEVARAKONDA	11/23/1987
NIKOLAI A. JOUKOV	12/18/2006
BIRGIT M. PFITZMANN	01/14/2019
LAWRENCE H. THOMPSON	01/09/2019

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:	16266859

CORRESPONDENCE DATA

Fax Number: (631)844-0081

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: 6318440080

Email: shachikian@tb-iplaw.com TUTUNJIAN & BITETTO, P.C. **Correspondent Name:** 401 BROADHOLLOW ROAD Address Line 1:

Address Line 2: SUITE 402

Address Line 4: MELVILLE, NEW YORK 11747

ATTORNEY DOCKET NUMBER:	YOR920100484US02 (364 C)
NAME OF SUBMITTER:	JAMES J. BITETTO
SIGNATURE:	/jjb/
DATE SIGNED:	11/06/2019

Total Attachments: 7

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IBM DOCKET NUMBER: YOR920100484US02 (364 C)

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: COST-BASED MIGRATION WAVES PLANNING

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 <u>16/266,859</u> filed on <u>February 4, 2019</u>.

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 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.

Page 1 of 2

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Signature:	Date:
(1) Legal Name of Inventor: [MURTHY DEVARAKONDA]	
Signature:	Date:
(2) Legal Name of Inventor: [NIKOLAI A. JOUKOV]	
Signature: Biful Pfluna_	Date: 01/14/2019
(3) Legal Name of Inventor: [BIRGIT M. PFITZMANN]	
Signature:	Date:
(4) Legal Name of Inventor: [LAWRENCE H. THOMPSON]	

IBM DOCKET NUMBER: YOR920100484US02 (364 C)

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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.

Signature:	Date:
(1) Legal Name of Inventor: [MURTHY DEVARAKONDA]	
Signature:	Date:
(2) Legal Name of Inventor: [NIKOLAI A. JOUKOV]	
Signature:	Date:
(3) Legal Name of Inventor: [BIRGIT M. PFITZMANN]	
Signature: LANTON OF THOMPSON	Date: 1/9/2019
(4) Legal Name of Inventor: [LAWRENCE H. THOMPSON]	

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- 4. I hereby assign to IBM my entire right, title and interest in any idea, invention, design of a useful article (whether the design is ornamental or otherwise), computer program and related documentation, and other work of authorship (all hereinafter called "Developments"), hereafter made or conceived solely or jointly by me, or created wholly or in part by me, whether or not such Developments are patentable, copyrightable or susceptible to other forms of protection, and the Developments:
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10. I acknowledge receipt of a copy of this A MURTHY DEVARAKOUDA Employee's Full Name (please print)	greement.	Dowarakader S Signature	368891 Employee Serial	11/23/8 Date
Employee's Manager/IBM/Representative (ple	ase print) Sign	ature	11/23/87 Date	
you have entered "none" in Paragraph 7, do i	not fill in this section.)			
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Serial: 5 P1709 DON: 12/18/2006

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- 4. I will comply, and do all things necessary for IBM to comply, (a) with the laws and regulations of all governments under which IBM does business, (b) with provisions of contracts between any such government or its contractors and IBM that relate to intellectual property or to the safeguarding of information, and (c) with all of the IBM Business Conduct Guidelines as amended from time to time.
- 5. I hereby assign to IBM my entire right, title, and interest in any idea, concept, technique, invention, design (whether the design is ornamental or otherwise), computer programs and related documentation, other works of authorship, mask works, and the like (all hereinafter called "Developments"), hereafter made, conceived, written, or otherwise created solely or jointly by me, whether or not such Developments are patentable, subject to copyright protection or susceptible to any other form of protection which: (a) relate to the actual or anticipated business or research or development of IBM or its subsidiaries or (b) are suggested by or result from any task assigned to me or work performed by me for or on behalf of IBM or its subsidiaries.

In the case of any "other works of authorship", such assignment shall be limited to those works of authorship which meet both conditions (a) and (b) above.

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The above provisions concerning assignment of Developments apply to Developments created while I am employed by iBM in an executive, managerial, professional, product or technical planning, technical, research, programming, or engineering capacity (including development, product, manufacturing, systems, applied science, and field engineering).

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I acknowledge that the copyright and any other intellectual property right in designs, computer programs and related documentation, and other works of authorship, created within the scope of my employment, belong to IBM by operation of law.
In connection with any of the Developments assigned by Paragraph 5: (a) I will promptly disclose them in writing to the IBM Intellectual Property Law Department; and (b) I will, on IBM's request, promptly execute a specific assignment of title to IBM or its designee, and do anything else reasonably necessary to enable IBM or such designee to secure a patent, copyright or other form of protection therefor in the United States and in other countries. In addition, I agree to promptly notify the IBM Intellectual Property Law Department in writing of any patent or patent application in which I am an Inventor but which is not assigned by Paragraph 5 and which discloses or claims any Development made, conceived, or written while

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I understand that any rights, walvers, releases, and assignments herein granted and made by me are freely assignable by IBM and are for the benefit of IBM and its subsidiaries, licensees, successors, and assigns.

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If I do not have any to Identify, I have written "none" on this line:

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- 10. The term "employment at will", as used in this Agreement, means the employment at the mutual consent of both me and IBM. Accordingly, either IBM or I can terminate the employment relationship at will, at any time, with or without cause or advance notice.

ZM04-3097-14 01.01

I am employed by IBM.

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- 12. This Agreement shall be governed by the laws of the State of New York, as if it had been executed and fully performed within such state. If any provision of this Agreement is unenforceable at law, the remainder shall remain in effect.
- 13. I recognize that any violation of my obligations described herein can result in disciplinary action, including dismissal from IB M, and any other appropriate relief for IBM including money damages, equitable relief and attorneys fees.

Nikolaj Joukov	Employee's Signature	5 D 70 9 12 18 10 10 10 10 10 10 10
(If you have entered "none" in Paragraph 8, do not fill in this	s section.)	
The following are Developments not covered by Paragraph either wholly or in part by me, but neither published nor file	5, in which I have any right, title, or li d in any Patent Office:	nterest, and which were previously conceived or written
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