06/16/2017 504418357

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4465057

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
REMA ANANTHANARAYANAN	01/29/2010
VINATHA CHATURVEDI	01/31/2010
VIJIL E. CHENTHAMARAKSHAN	02/02/2010
PRASAD M. DESHPANDE	01/29/2010
RAGHURAM KRISHNAPURAM	01/29/2010
SHAJEER K. MOHAMMED	02/01/2010

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:	13595860

CORRESPONDENCE DATA

Fax Number: (412)741-9292

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: 4127418400

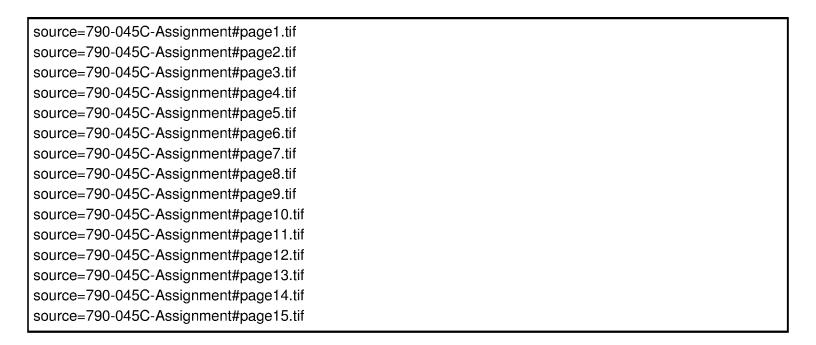
Email: assignments@ferencelaw.com FERENCE & ASSOCIATES LLC **Correspondent Name:**

Address Line 1: 409 BROAD STREET

Address Line 4: PITTSBURGH, PENNSYLVANIA 15143

ATTORNEY DOCKET NUMBER:	IN920090109US2 (790.045C)
NAME OF SUBMITTER:	JENNIFER L. FARONE
SIGNATURE:	/Jennifer L. Farone/
DATE SIGNED:	06/16/2017

Total Attachments: 15



ASSIGNMENT

Whereas, the undersigned toverror(s) bas/have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") in:

Title of the Invention: MINING DEPENDENCIES FROM DISK IMAGES

and further identified by the H which an application for a Uni	3M Docket Number provided above in the header of this Assignment, for ted States Patent was executed concurrently herewith or was filed having:
Serial Number	(insert series code and script number here it/when available)
Whereas, International Busine	as Machines Corporation, a corporation of New York having a place of

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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, assigns, and otherwise transfers 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 leave 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 parents 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 laventor agrees to execute any and all documents and instruments and perform all fawful 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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(Inventor Signature Page Follows)

18M OOCKET NUMBER: IN920090109USI Executed by Inventor 1 of 6 Date: 2.4 - 3.4. - 2.010 Signature: Rema Ananthanarayanan Executed by Inventor 2 of 6. Signature Vinatha Chaturvedi Executed by Inventor 3 of 6 Signature: Vijil E. Chenthamarakshan Executed by Inventor 4 of 6

Praxad M. Deshpande

Evantat by Inscript S	BM DOCKET NUMBER: INVINENT (79)	19USI 0.045)
Executed by Inventor S	33.3	
Signature: Raghuram Krishnapuram		
Executed by Inventor 6	888	
Signatur Shajeer K. Mohammed	D&C.	

ASSIGNMENT

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Signature	: Rema Annothanarayanan	Date.	
**************************************	Execut	ted by Inventor 2 of 6	a adolescente a
Signature		Date: Jan /31/10	
Signature		Date:	
Non-commenced mercury and	Execut	ted by Inventor 4 of 6	
Signature	Prasad M. Deshpande	Date:	

	(790.04) TRAIDOCEET NOMER (Nº2006-100-C)
Birgh (2) i militari ishindingan methemoshingan kurin esembatin ni	Executed by Inventor 5 of 6
Signature:	Date
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20-1-6-2000-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	Executed by Inventor 6 of 6
Signature: Shakon K. Maha	Date:

IBM DOCKET NUMBER: 1N920090109U\$1 (790.045)

ASSIGNMENT

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[Inventor Signature Page Follows]

	Executed by Inventor 1	l of 6	(790.045)
Signature		Date:	,
	Rema Ananthanarayanan		
		,	
	Executed by Inventor 2	2 of 6	
Signature	Vigatha Chaturvedi	Date:	
			-
	Executed by Inventor 3	3 of 6	
Signature:	EC- Wijil E. Chenthamarakshan	Date: 2 nd Feb	. 2010 —
	Executed by Inventor 4	1 of 6	
Signature:	Prasad M. Deshpande	Date:	

IBM DOCKET NUMBER: IN920090109US1

		IBM DOCKET NUMBER:	
	Executed by	Inventor 5 of 6	(790.045)
Signature		Date:	
	Raghuram Krishnapuram		
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Signature	Chair Wand	Date:	
	Shajeer K. Mohammed		

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	Executed by I	nventor 1 of 6	
Signature	Rema Ananthanarayanan ·	Date:	e de la companya de l
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Signature	;Vinatha Chaturvedi	Date:	
	Executed by In	eventor 3 of 6	
Signature:	Vijil E. Chenthamarakshan	Date:	THE REST PARTY.
	Executed by In	ventor 4 of 6	
Signature:	Prasad M. Deshpande	Date: 29 Jos	2010

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Signature: KRephore Raghuram Krishnapur	Date: 29 7an 2010	
	Executed by Inventor 6 of 6	
Signature	Data	

Shajeer K. Mohammed

IBM DOCKET NUMBER: IN920090109UST

IBM DOCKET NUMBER: IN920090109US1 (790.045)

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		IBM DOCKET NUMBER: 1N92009	0109US1 (790.045)
	Executed b	y Inventor 1 of 6	
Signature:	: Rema Ananthanarayanan	Date:	
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	Executed b	y Inventor 2 of 6	
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Signature	Vinatha Chaturvedi	Date:	
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Signature	: Vijil E. Chenthamarakshan	Date.	
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Prasad M. Deshpande

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