504720048 01/09/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4766771

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date		
HASSAN MALIK	10/03/2011		

RECEIVING PARTY DATA

Name:	THOMSON REUTERS (MARKETS) LLC
Street Address:	195 BROADWAY
City:	NEW YORK
State/Country:	NEW YORK
Postal Code:	10036

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13042266

CORRESPONDENCE DATA

Fax Number:

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.

Email: shannon.fritsche@thomsonreuters.com

Correspondent Name: THOMSON REUTERS GLOBAL RESOURCES UNLIMITED

COMPANY

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Address Line 4: 6340 BAAR, SWITZERLAND

ATTORNEY DOCKET NUMBER:	15077713
NAME OF SUBMITTER:	SHANNON FRITSCHE
SIGNATURE:	/Shannon Fritsche/
DATE SIGNED:	01/09/2018

Total Attachments: 3

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PATENT 504720048 REEL: 044572 FRAME: 0535

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3206503

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
SEQUENCE:	1	

CONVEYING PARTY DATA

	Name	Execution Date
Н	ASSAN MALIK	10/03/2011

RECEIVING PARTY DATA

Name:	THOMSON REUTERS (MARKETS) LLC	
Street Address:	195 BROADWAY	
City:	NEW YORK	8:
State/Country:	NEW YORK	
Postal Code:	10007	8

PROPERTY NUMBERS Total: 3

Property Type	Number				
Application Number:	13046266				
Application Number:	13107665				
Application Number:	13213324				

CORRESPONDENCE DATA

Fax Number:

(502)568-2101

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.

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Email:

kduncan@vhrlaw.com KEVIN T. DUNCAN

Correspondent Name:

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·							
ATTORNEY DOCKET NUMBER:	113027.000087US2			-81 85		# · ·	
NAME OF SUBMITTER:	KEVIN T. DUNCAN		*	8	35 S	38	
SIGNATURE:	/Kevin T. Duncan/	**	***************************************	480		i:	
DATE SIGNED:	01/30/2015	188	:	. 50	38 S	-00	

Total Attachments: 2

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PATENT

REEL: 034856 FRAME: 0789

PATENT

REEL: 044572 FRAME: 0536

503159889

ASSIGNMENT - CORRECTED

WHEREAS, I, Hassan Malik, residing at 402 Pheasant Run, Monmouth Junction, NJ 08852, USA, (hereinafter referred to as ASSIGNOR), am the inventor of an invention described in a provisional application entitled AUTOMATIC DATA CLEANING FOR MACHINE LEARNING CLASSIFIERS, the application being identifiable in the United States Patent and Trademark Office by an Application No. 61/445,236, filed February 22, 2011, and also described in an application for Letters Patent of the United States entitled AUTOMATIC DATA CLEANING FOR MACHINE LEARNING CLASSIFIERS, the application being identifiable in the United States Patent and Trademark Office by an Application No. 13/046,266, filed March 11, 2011; and

WHEREAS, Thomson Reuters (Markets) LLC, a corporation, organized and existing under the laws of the State of Delaware, and having offices at 195 Broadway, New York, New York 10007, ("Assignee") is desirous of acquiring the entire right, title and interest in and to the invention, the application, and any and all Letters Patent or similar legal protection, foreign or domestic, to be obtained thereof;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, we transfer to Assignee, its successors and assigns, our entire right, title and interest in and to the invention, the above-identified application, corresponding domestic and foreign applications including continuations applications, continuing applications, divisional applications, reissue applications, and continuation-in-part applications, all Letters Patent or similar legal protection issuing thereon, and all rights and benefits under and applicable treaty or convention; and we authorize the Director of the United States Patent and Trademark Office or foreign equivalent thereof to issue the Letters Patent or similar legal protection to the Assignee.

I authorize the Assignee, its successors and assigns, to insert in this instrument the filing date and serial number of the application when ascertained. I authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries.

I represent to the Assignee, its successors and assigns, that I have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I, my executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries.

PATENT REEL: 034856 FRAME: 0790

PATENT REEL: 044572 FRAME: 0537

Alterney Docket No. TRGR(CT&O)_007_US1

I coverant with Assignee, its successors, assigns and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license or other encumbrance.

DATE:	3/14	1/20	
Hassan Malik		*	
		3. 12.	
STATE OF			
COUNTY OF			
ANG MENTANDAN PENDENGAN PE			
Subscribed and swom before me, a Notary Public, this	day of _	And the second s	2011.
Notary Public			

RECORDED: 01/30/2015

RECORDED: 01/09/2018

PATENT REEL: 034856 FRAME: 0791

PATENT

REEL: 044572 FRAME: 0538