505652272 09/03/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RICHARD D. MILLER	04/06/2016
JACOB AARON MYERS	04/06/2016
TODD J. FRASCONE	04/06/2016
GAURAV MEHRA	04/06/2016
RONALD C. HAINES	04/06/2016
PHILIP WITTMER	04/06/2016
YANGGUANG LI	04/07/2016

RECEIVING PARTY DATA

Name:	LEXISNEXIS, A DIVISION OF REED ELSEVIER INC.
Street Address:	9443 SPRINGBORO PIKE
City:	MIAMISBURG
State/Country:	ОНЮ
Postal Code:	45342

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16559112

CORRESPONDENCE DATA

Fax Number: (513)977-8141

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

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Correspondent Name: DINSMORE & SHOHL LLP Address Line 1: 255 E. FIFTH STREET

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ATTORNEY DOCKET NUMBER:	LEN0094NA / 31547-581
NAME OF SUBMITTER:	ANTHONY L. PISANO
SIGNATURE:	/Anthony L. Pisano/
DATE SIGNED:	09/03/2019

505652272 PATENT REEL: 050251 FRAME: 0570

Total Attachments: 5

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PATENT REEL: 050251 FRAME: 0571

ASSIGNMENT

Ø	Patent Application Serial No.	-
X	Attorney Docket No. 31547-447 / LEN0094PA	

WHEREAS, the ASSIGNOR(S) hereby authorize(s) and request(s) the attorney(s) and/or agent(s) empowered to act on LexisNexis, a division of Reed Elsevier Inc.'s behalf in the aforementioned application, to insert above the filing date and application number of said application, when known;

WHEREAS, LexisNexis, a division of Reed Elsevier Inc., a corporation of the State of Ohio, with a place of business at 9443 Springboro Pike, Miamisburg, Ohio 45342, hereinafter called the ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to said application and the inventions therein disclosed and any Letters Patent that may issue thereon;

AND, WHEREAS, it is the intent of the ASSIGNOR(S) to assign all rights to the above referenced application to the ASSIGNEE, including, but not limited to, all substantive rights in the above-referenced application as well as the right to claim priority, the right to be granted a patent in any and all countries and Regional Patent Offices, including, without limitation, the PCT Contracting States;

NOW, THEREFORE, for good and valuable consideration, receipt whereof is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto said ASSIGNEE, its successors and assigns, the entire right, title and interest, including the right to claim priority in and to said application, the inventions therein disclosed, and any improvements thereon, and in any and all Letters Patent that may be granted therefor in the United States and its territorial possessions and in any and all countries and Regional Patent Offices, including, without limitation, the PCT Contracting States, and in and to any and all divisions, continuations, substitutions, renewals, re-examinations, extensions and reissues thereof;

ASSIGNOR(S) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions, and in any and all countries and Regional Patent Offices, including, without limitation, the PCT Contracting States, to issue, when granted, any Letters Patent thereon, and any and all divisions, continuations, substitutions, renewals, re-examinations, extensions and reissues thereof, to said ASSIGNEE, its successors and assigns, as the assignee of the entire right title and interest in and to the same, for the sole use and behalf of the ASSIGNEE and the ASSIGNEE's successors and assigns, to the full end of the term for which the Letters Patent may be granted, including the term of any and all divisions, continuations, substitutions, renewals, re-examinations, extensions and reissues thereof, as fully and entirely as the same would have been held by the ASSIGNOR(S) had this

PATENT REEL: 050251 FRAME: 0572 assignment not been made;

ASSIGNOR(S) hereby authorize said ASSIGNEE, its successors and assigns, to file in its own name applications for patent in foreign countries in connection with the inventions hereby transferred, under the International Convention claiming the priority of said United States application or otherwise, and to secure in its own name the Letters Patent issued thereon, including any and all divisions, continuations, substitutions, renewals, re-examinations, extensions and reissues thereof; and

ASSIGNOR(S) hereby agree that, upon request, ASSIGNOR(S) will sign all papers, and make all rightful oaths, and do all acts which said ASSIGNEE, its successors or assigns, may consider necessary in connection with said United States application, and in connection with any other United States application or foreign applications that may be filed in connection with said inventions, and with any improvements thereon, and in connection with any Letters Patent issued thereon, including any and all divisions, continuations, substitutions, renewals, re-examinations, extensions and reissues thereof.

ASSIGNOR(S):

By <u>(IMM) Wolld</u> Richard D. Miller
Date: 4/6/2016
By Janl eggl
Jacob Aaron Ayers Date: 4/6/2016
By April Un
Todd J. Frascone Date: <u>4/4/2</u> 016
Ву
Gaurav Mehra

Date: 4-6-2016

assignment not been made;

ASSIGNOR(S):

ASSIGNOR(S) hereby authorize said ASSIGNEE, its successors and assigns, to file in its own name applications for patent in foreign countries in connection with the inventions hereby transferred, under the International Convention claiming the priority of said United States application or otherwise, and to secure in its own name the Letters Patent issued thereon, including any and all divisions, continuations, substitutions, renewals, re-examinations, extensions and reissues thereof; and

ASSIGNOR(S) hereby agree that, upon request, ASSIGNOR(S) will sign all papers, and make all rightful oaths, and do all acts which said ASSIGNEE, its successors or assigns, may consider necessary in connection with said United States application, and in connection with any other United States application or foreign applications that may be filed in connection with said inventions, and with any improvements thereon, and in connection with any Letters Patent issued thereon, including any and all divisions, continuations, substitutions, renewals, re-examinations, extensions and reissues thereof.

Date:

PATENT REEL: 050251 FRAME: 0574

By POWW
Philip Wittmer
Date: 4/6/16
D
By Yangguang Li
Data

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By Philip Wittmer	
Date:	
By Curygry C: Yangguang Li	
rangguing Li	
Date: <u>Apr 7,</u> 2016	

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RECORDED: 09/03/2019 REEL: 050251 FRAME: 0576