

PATENT ASSIGNMENT COVER SHEET

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

CONVEYING PARTY DATA

Name	Execution Date
RYAN ROSER	04/11/2018
ADAM BRONSTEIN	04/12/2018

RECEIVING PARTY DATA

Name:	THOMSON REUTERS (MARKETS) LLC
Street Address:	3 TIMES SQUARE
City:	NEW YORK
State/Country:	NEW YORK
Postal Code:	10036

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16381137

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.

Phone: 858-720-8900**Email:** dmipdocketing@sheppardmullin.com, strader@sheppardmullin.com**Correspondent Name:** SHEPPARD MULLIN RICHTER & HAMPTON LLP**Address Line 1:** 650 TOWN CENTER DRIVE, 4TH FLOOR**Address Line 4:** COSTA MESA, CALIFORNIA 92626

ATTORNEY DOCKET NUMBER:	64NV-291448
NAME OF SUBMITTER:	SUSAN TRADER
SIGNATURE:	/Susan Trader/
DATE SIGNED:	04/11/2019

Total Attachments: 4

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ASSIGNMENT

WHEREAS, I, **Ryan Roser** of **3964 NE 8th Avenue, Portland, OR 97212** (hereinafter referred to as ASSIGNOR), is the inventor of an invention described in an application for Letters Patent of the United States entitled **Deep Learning Approach for Assessing Corporate Credit Risk**, the application having been executed on even date herewith, and/or being identifiable in the United States Patent and Trademark Office by Application No. **62/655,974** filed **April 11, 2018**; and

AND WHEREAS, **Thomson Reuters (Markets) LLC**, a Delaware company with its principal place of business at Thomson Reuters, 3 Times Square, New York NY 10036, United States of America (hereinafter "Assignee"), desires to acquire the entire right, title and interest in and to the inventions, the application, and in any and all Letters Patent or similar legal protection, foreign or domestic, to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits,

assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

DocuSigned by:
Ryan Roser

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DATE: 11/4/2018 | 8:48 PM CEST

Ryan Roser

ASSIGNMENT

WHEREAS, I, **Adam Bronstein** of **3620 18th St Apt 24, San Francisco, CA 94110** (hereinafter referred to as ASSIGNOR), is the inventor of an invention described in an application for Letters Patent of the United States entitled **Deep Learning Approach for Assessing Corporate Credit Risk**, the application having been executed on even date herewith, and/or being identifiable in the United States Patent and Trademark Office by Application No. **62/655,974** filed **April 11, 2018**; and

AND WHEREAS, **Thomson Reuters (Markets) LLC**, a Delaware company with its principal place of business at Thomson Reuters, 3 Times Square, New York NY 10036, United States of America (hereinafter "Assignee"), desires to acquire the entire right, title and interest in and to the inventions, the application, and in any and all Letters Patent or similar legal protection, foreign or domestic, to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

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AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

DocuSigned by:
Adam Bronstein
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DATE: 12/4/2018 | 12:37 AM CEST

Adam Bronstein