

## PATENT ASSIGNMENT COVER SHEET

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| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT                                     |                       |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                                         |                       |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                                    |                       |
|                                                                                                                                                                                                 | <b>Name</b>                                        | <b>Execution Date</b> |
|                                                                                                                                                                                                 | XIAOMO LIU                                         | 10/02/2017            |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                                    |                       |
| <b>Name:</b>                                                                                                                                                                                    | THOMSON REUTERS HOLDINGS INC.                      |                       |
| <b>Street Address:</b>                                                                                                                                                                          | 3 TIMES SQUARE                                     |                       |
| <b>City:</b>                                                                                                                                                                                    | NEW YORK                                           |                       |
| <b>State/Country:</b>                                                                                                                                                                           | NEW YORK                                           |                       |
| <b>Postal Code:</b>                                                                                                                                                                             | 10036                                              |                       |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                                                    |                       |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                                      |                       |
| <b>Application Number:</b>                                                                                                                                                                      | 15712952                                           |                       |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                                    |                       |
| <b>Fax Number:</b>                                                                                                                                                                              |                                                    |                       |
| <i>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.</i> |                                                    |                       |
| <b>Email:</b>                                                                                                                                                                                   | Shannon.Murphy1@tr.com                             |                       |
| <b>Correspondent Name:</b>                                                                                                                                                                      | THOMSON REUTERS GLOBAL RESOURCES UNLIMITED COMPANY |                       |
| <b>Address Line 1:</b>                                                                                                                                                                          | NEUHOFSTRASSE 1                                    |                       |
| <b>Address Line 4:</b>                                                                                                                                                                          | 6340 BAAR, SWITZERLAND                             |                       |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | TET010US1.17                                       |                       |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | SHANNON MURPHY                                     |                       |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /SHANNON MURPHY/                                   |                       |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 10/02/2017                                         |                       |
| <b>Total Attachments: 2</b>                                                                                                                                                                     |                                                    |                       |
| source=TET010US1.17_Xiaomo Liu - Thomson Reuters Holdings Inc._Patent Assignment.docx#page1.tif                                                                                                 |                                                    |                       |
| source=TET010US1.17_Xiaomo Liu - Thomson Reuters Holdings Inc._Patent Assignment.docx#page2.tif                                                                                                 |                                                    |                       |

**ASSIGNMENT**

WHEREAS, I, **Xiaomo Liu** of **69-09 108 Street, Apt. 604, Forest Hills, NY 11375** (hereinafter referred to as ASSIGNOR), is the inventor of an invention described in an application for Letters Patent of the United States entitled **Systems and Methods for Providing a Social Media Knowledge Base**, the application having been executed on even date herewith, and/or being identifiable in the United States Patent and Trademark Office by Application No. **15/712,952** filed **September 22, 2017**; and

AND WHEREAS, **Thomson Reuters Holdings Inc.**, 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

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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:  
*Xiaomo Liu*  
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DATE: 2/10/2017 | 4:21 PM CEST

Xiaomo Liu