

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| YU ZHANG | 04/20/2022 |
| DIPAYAN DUTTA | 04/20/2022 |
| ZHONGJIE LIN | 04/19/2022 |
| SHENGJIE XIA | 04/19/2022 |
| RECEIVING PARTY DATA | |
| Name: | MORGAN STANLEY SERVICES GROUP INC. |
| Street Address: | 1585 BROADWAY |
| City: | NEW YORK |
| State/Country: | NEW YORK |
| Postal Code: | 10036 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 17891514 |
| CORRESPONDENCE DATA | |
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| Correspondent Name: | MARK G. KNEDEISEN |
| Address Line 1: | 210 SIXTH AVENUE |
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| ATTORNEY DOCKET NUMBER: | 220079CON |
| NAME OF SUBMITTER: | MARK G. KNEDEISEN |
| SIGNATURE: | /Mark G. Knedeisen/ |
| DATE SIGNED: | 08/19/2022 |
| Total Attachments: 3 | |
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| source=Assignment#page2.tif | |

ASSIGNMENT OF APPLICATION FOR PATENT

WHEREAS:

Yu Zhang, a resident of Carle Place, NY (US), Dipayan Dutta, a resident of Jersey City, NJ (US), Zhongjie Lin, a resident of New York, NY (US), and Shengjie Xia, a resident of Montreal, QC (CA) (hereinafter referred to as ASSIGNORS) have made an invention or discovery entitled:

SCORING SENTIMENT IN DOCUMENTS USING MACHINE LEARNING AND FUZZY MATCHING

☒ for which application for Letters Patent of the United States has been executed on even date herewith, or

☐ for which applications for Letters Patent of the United States have been filed on _____ under Serial No. _____.

WHEREAS:

Morgan Stanley Services Group Inc., a Delaware corporation having an office at 1585 Broadway, New York, NY 10036 United States (hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire right, title and interest in, to and under said invention or discovery, and in, to and under said United States application, and in, to and under Letters Patent or similar legal protection to be granted thereon in the United States and in any and all foreign countries, and of confirming the same or any part thereof heretofore acquired by ASSIGNEE..

NOW, THEREFORE:

In consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar (\$1.00) and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNORS hereby sell, assign, transfer to and confirm in ASSIGNEE, its successors, legal representatives and assigns, the full and exclusive right, title and interest to said invention or discovery in the United States and its territorial possessions and in all foreign countries; and to said United States applications and any and all other applications on said invention or discovery in whatsoever countries, including any continuations, divisions, substitutes or renewals; and to all Letters Patent, and all reissues, re-examinations, and extensions thereof, or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention or discovery or upon said applications or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted; and every priority right that is or may be predicated upon or arise from said invention or discovery, said applications and said Letters Patent,

WE, SAID ASSIGNORS, hereby authorize and request the Director of the United States Patent and Trademark Office, the Commissioner for Patents of the United States of America, any other United States Official, and/or any Official of any country or countries foreign to the United States of America whose duty it is to issue Letters Patent on applications as aforesaid, to issue or transfer all such Letters Patent for said invention or discovery to the ASSIGNEE, as assignee of the entire right, title and interest in, to and under the same, for the sole use and behalf of the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

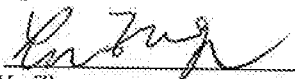
WE, SAID ASSIGNORS, hereby covenant that we have full right to convey the entire right, title and interest herein sold, assigned, transferred, set over and confirmed, and that we have not executed and will not execute any agreement in conflict herewith;

AND WE, SAID ASSIGNORS, hereby further covenant and agree that the ASSIGNEE, its successors, legal representatives, or assigns, may apply for Letters Patent in any or all countries on said invention or discovery in our names or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable, and may claim the benefits of the International Convention or otherwise claim priority rights;


AND WE, SAID ASSIGNORS, hereby further covenant that we will, at any time when called upon to do so by the ASSIGNEE, its successors, legal representatives, or assigns: communicate to the ASSIGNEE, its successors, legal representatives, or assigns, as the case may be, any facts known to us respecting said invention or discovery or the history thereof, including without limitation the furnishing of any and all documents, photographs, models, samples and other physical exhibits in our control which may be useful for establishing the facts of our conception, disclosures, and reduction to practice of said invention or discovery; execute and deliver to the ASSIGNEE, its successors, legal representatives, or assigns, as the case may be, any and all lawful papers that may be necessary or desirable to perfect the title to the said invention or discovery, the said applications and the said Letters Patent in the ASSIGNEE, its successors, legal representatives and assigns; if reissues, re-examinations, or other like proceedings involving the said Letters Patent or disclaimers relating thereto, or divisions, continuations, or refilings of the said applications, or any thereof, shall hereafter be desired by the ASSIGNEE, its successors, legal representatives, or assigns, we will sign all lawful papers, make all rightful oaths, execute and deliver all such disclaimers and all divisional, continuation, re-examination and reissue applications so desired, and do all lawful acts requisite for the application for such reissues, re-examinations and the procuring thereof and for the filing of such disclaimers and such applications; and generally do everything possible, including testifying in any legal proceedings, signing all lawful papers and making all rightful oaths, to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention or discovery in all countries, and without further compensation but at the expense of the ASSIGNEE, its successors, legal representatives and assigns.

IN WITNESS WHEREOF, we, said ASSIGNORS, have hereunto affixed our signatures on the date and year opposite our respective signatures.

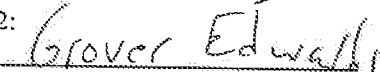
YU ZHANG

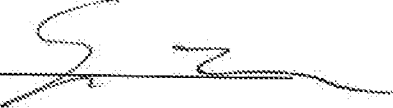
Signature: 
Yu Zhang

Date: 4/20/2022


Witness 1: 
Name: Ann-Marie Birns

Signature: 

Witness 2: 
Name: Grover Edwards


Signature: 

DIPAYAN DUTTA

Signature: 
Dipayan Dutta

Date: 4/20/2022

Witness 1: Ann-Marie Birns
Name: Ann-Marie Birns

Signature: 

Witness 2: Grover Edwards
Name: Grover Edwards

Signature: 

ZHONGJIE LIN

Signature: Lin Zhongjie
Zhongjie Lin

Date: 4/19/2022

Witness 1:
Name: Qingyi Huang

Signature: Qingyi Huang

Witness 2:
Name: Li Tao

Signature: Li Tao

SHENGJIE XIA

Signature: Shengjie Xia
Shengjie Xia

Date: 4/19/2022

Witness 1:
Name: Althia Zuo

Signature: Althia Zuo

Witness 2:
Name: Sheetal Kharche

Signature: Sheetal Kharche