

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6181335

|                                                                                                                                                                                                 |                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT                                    |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                                        |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                                   |
| <b>Name</b>                                                                                                                                                                                     | <b>Execution Date</b>                             |
| MINGWEN DONG                                                                                                                                                                                    | 06/25/2020                                        |
| SHENG-MIN SHIH                                                                                                                                                                                  | 06/26/2020                                        |
| TAPODIPTA GHOSH                                                                                                                                                                                 | 06/25/2020                                        |
| MIHIR ANIL JOSHI                                                                                                                                                                                | 06/25/2020                                        |
| STUART MYLES                                                                                                                                                                                    | 06/25/2020                                        |
| KUN CAO                                                                                                                                                                                         | 06/25/2020                                        |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                                   |
| <b>Name:</b>                                                                                                                                                                                    | AMAZON TECHNOLOGIES, INC.                         |
| <b>Street Address:</b>                                                                                                                                                                          | PO BOX 81226                                      |
| <b>City:</b>                                                                                                                                                                                    | SEATTLE                                           |
| <b>State/Country:</b>                                                                                                                                                                           | WASHINGTON                                        |
| <b>Postal Code:</b>                                                                                                                                                                             | 98108-1226                                        |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                                                   |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                                     |
| <b>Application Number:</b>                                                                                                                                                                      | 16917836                                          |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                                   |
| <b>Fax Number:</b>                                                                                                                                                                              | (512)853-8801                                     |
| <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>Phone:</b>                                                                                                                                                                                   | 5128538800                                        |
| <b>Email:</b>                                                                                                                                                                                   | acallahan@intprop.com                             |
| <b>Correspondent Name:</b>                                                                                                                                                                      | ROBERT C. KOWERT                                  |
| <b>Address Line 1:</b>                                                                                                                                                                          | 1120 S CAPITAL OF TEXAS HWY BUILDING 2, SUITE 300 |
| <b>Address Line 4:</b>                                                                                                                                                                          | AUSTIN, TEXAS 78746                               |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | 7924-19200                                        |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | ROBERT C. KOWERT                                  |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Robert C. Kowert/                                |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 07/01/2020                                        |
| <b>Total Attachments: 10</b>                                                                                                                                                                    |                                                   |

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**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. \_\_\_\_\_  
Filing Date \_\_\_\_\_

Attorney Docket No. 7924-19200  
Client Docket No. P70280-US01

**PARTIES TO THE ASSIGNMENT**

Assignor(s):

Mingwen Dong  
410 Terry Avenue North  
Seattle, WA 98109-5210

Sheng-Min Shih  
410 Terry Avenue North  
Seattle, WA 98109-5210

Tapodipta Ghosh  
410 Terry Avenue North  
Seattle, WA 98109-5210

Mihir Anil Joshi  
410 Terry Avenue North  
Seattle, WA 98109-5210

Stuart Myles  
410 Terry Avenue North  
Seattle, WA 98109-5210

Kun Cao  
410 Terry Avenue North  
Seattle, WA 98109-5210

Assignee:

Amazon Technologies, Inc.  
PO Box 81226  
Seattle, WA 98108-1226

**AGREEMENT**

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled  
"TRAINING MODELS AND USING THE TRAINED MODELS TO INDICATE STALENESS OF CONTENT  
ITEMS" (Invention) for which a non-provisional application for United States Letters Patent  
(Application):

**PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)**

U.S. Patent Appln. No. \_\_\_\_\_  
Filing Date \_\_\_\_\_

Attorney Docket No. 7924-19200  
Client Docket No. P70280-US01

Title of Invention: TRAINING MODELS AND USING THE TRAINED MODELS TO INDICATE  
STALENESS OF CONTENT ITEMS

Inventors: Mingwen Dong, Sheng-Min Shih, Tapodipta Ghosh, Mihir Anil Joshi, Stuart Myles, Kun  
Cao

- ☐ was filed on \_\_\_\_\_ and accorded U.S. Application No. \_\_\_\_\_; or
- ☒ will be filed concurrently with the submission of this executed PATENT ASSIGNMENT  
for recordation. ASSIGNOR(S) hereby authorizes and requests ASSIGNEE'S legal  
representatives, of Kowert, Hood, Munyon, Rankin & Goetzel, P.C., associated with  
Customer No. 136594, to insert in the header above and here in parentheses (U.S.  
Patent Application No. \_\_\_\_\_, filed \_\_\_\_\_) this application's U.S.  
application number and filing date, when known.

WHEREAS, ASSIGNEE, a corporation of the State of Nevada, is desirous of acquiring the  
entire right, title and interest in and to the Invention and in and to any letters patent that may be  
granted therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which  
is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE its  
successors and assigns, the entire right, title and interest in and to said Invention and any  
improvements thereto, said Application and any and all letters patent which may be granted for  
said Invention in the United States of America and its territorial possessions and in any and all  
foreign countries, and in any and all provisional, divisions, reissues, re-examinations and  
continuations thereof, including the right to file foreign applications directly in the name of  
ASSIGNEE and to claim priority rights deriving from said Application to which said foreign  
applications are entitled by virtue of international convention, treaty or otherwise, said Invention,  
Application and all letters patent on said Invention to be held and enjoyed by ASSIGNEE and its  
successors and assigns for their use and benefit and of their successors and assigns as fully and

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Cao

entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment,  
transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner  
of Patents and Trademarks, as well as all other applicable patent offices throughout the world, to  
issue all letters patent on said Invention to ASSIGNEE. ASSIGNOR(S) agree to execute all  
instruments and documents required for the making and prosecution of applications for United  
States and foreign letters patent on said Invention, for litigation regarding said letters patent, or  
for the purpose of protecting title to said Invention or letters patent therefor.

AND ASSIGNOR(S) DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its  
successors, legal representatives, and assigns all claims for damages and all remedies arising out  
of any violation of the rights assigned hereby that may have accrued prior to the date of  
assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue  
for, collect, and retain damages for past infringements of said letters patent before or after  
issuance.

AND ASSIGNOR(S) DOES HEREBY covenant and agree that ASSIGNOR(S) will communicate  
to ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR  
respecting the Invention or said Application, and testify in any legal proceeding, assist in the  
preparation of any other patent property relating to the Application and the Invention or any  
improvements made thereto, sign/execute all lawful papers, provide all requested documents,  
execute and make all rightful oaths and/or declarations in connection with the Application and  
the Invention including any improvements made thereto, any patent applications filed therefrom,  
and any continuing application filed from any of the aforementioned applications, and generally

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do everything possible to aid ASSIGNEE, its successors, legal representatives and assigns, to obtain  
and enforce proper patent protection for the Invention in all countries. These provisions are  
binding upon ASSIGNOR's heirs, legal representatives, administrators, and assigns.

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Cao

**DECLARATION**

As a below named inventor, I hereby declare that:

This declaration is directed to:

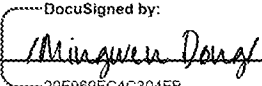
- ☒ the attached application; or  
☐ United States Patent Application number \_\_\_\_\_ filed on \_\_\_\_\_; or  
☐ PCT International Application number \_\_\_\_\_ filed on \_\_\_\_\_.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the  
application.

I have reviewed and understand the contents of the above-identified application, and  
acknowledge the duty to disclose to the US Patent & Trademark Office all information known to  
me to be material to the patentability as defined in 37 CFR 1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable  
under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

DocuSigned by:  
  
29F969FC4C304FB...  
Mingwen Dong

June 25, 2020  
\_\_\_\_\_  
Date

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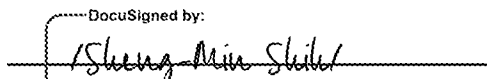
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DocuSigned by:  
  
190911100ED3462...  
Sheng-Min Shih

June 26, 2020  
\_\_\_\_\_  
Date

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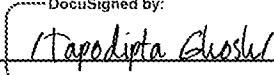
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DocuSigned by:  
  
CE03885746B147A...  
Tapodipta Ghosh

June 25, 2020

Date

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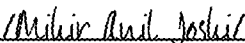
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DocuSigned by:  
  
2E47AF32AAB149C...  
Mihir Anil Joshi

June 25, 2020  
\_\_\_\_\_  
Date

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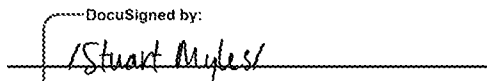
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DocuSigned by:  
  
A8A29661D805494...  
Stuart Myles

June 25, 2020  
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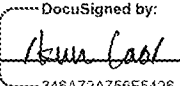
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DocuSigned by:  
  
348A72A756F5426...  
Kun Cao

June 25, 2020  
\_\_\_\_\_  
Date