## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5999508

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

#### **CONVEYING PARTY DATA**

Name	Execution Date
INTERNATIONAL BUSINESS MACHINES CORPORATION	03/02/2020

### **RECEIVING PARTY DATA**

Name:	INTERNATIONAL BUSINESS MACHINES CORPORATION		
Street Address:	dress: NEW ORCHARD ROAD		
City:	ARMONK		
State/Country:	NEW YORK		
Postal Code:	<b>Code:</b> 10504		
Name:	TOYOTA TECHNOLOGICAL INSTITUTE AT CHICAGO		
Name: Street Address:	TOYOTA TECHNOLOGICAL INSTITUTE AT CHICAGO 6045 S. KENWOOD AVE		
Street Address:	6045 S. KENWOOD AVE		

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	16267489	

#### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	P201807646US01
NAME OF SUBMITTER:	SEAN M. MCGINN
SIGNATURE:	/Sean M. McGinn/
DATE SIGNED:	03/05/2020

**Total Attachments: 4** 

**PATENT** REEL: 052031 FRAME: 0112

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PATENT REEL: 052031 FRAME: 0113

# ASSIGNMENT OF APPLICATION FOR UNITED STATES PATENT

WHEREAS:

NAME AND ADDRESS OF

ASSIGNOR:

International Business Machines Corporation

New Orchard Road Armonk, NY 10504

(hereinafter referred to as ASSIGNOR), owns a certain new and

useful invention entitled:

TITLE OF INVENTION:

RECOGNITION OF OUT-OF-VOCABULARY IN DIRECT ACOUSTICS-TO-WORD SPEECH RECOGNITION USING

ACOUSTIC WORD EMBEDDING
(U.S. Application No. 16/267,489)

AND WHEREAS:

FULL NAME AND ADDRESS OF ASSIGNEES International Business Machines Corporation

New Orchard Road Armonk, NY 10504

AND

Toyota Technological Institute at Chicago 6045 S. Kenwood Ave Chicago, IL 60637

(hereinafter referred to collectively as ASSIGNEES), are desirous of acquiring the entire right, title, and interest in, to and under said invention and the United States Letters Patent to be obtained therefor.

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment of ASSIGNEES to ASSIGNOR of good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR, by these presents, hereby sells, assigns and transfers to ASSIGNEES the entire and exclusive right, title and interest to said invention and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.

Assignment of Application for U. S. Patent Docket No. P201807646US01

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States Patent obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms to said ASSIGNEES, of the entire right, title, and interest in and to the same, for their sole use and behoof, and for the use and behoof of their legal representatives, to the full end of the term or terms for which said Letters Patent obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for may be granted, as full and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale; and

ASSIGNOR further covenants that ASSIGNEES will, upon their request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEES or their legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

DATE OF SIGNING:	IN WITNESS WHEREOF, Assignor has executed this Assignme by proper person below duly authorized this day of, 2020.		
ASSIGNOR SIGNATURE:	By: Lisa M. Regan Title: Vice President Operation & Finance		
WITNESSES:	Research & Intellectual Property  Maria Waynauch  Mouroum (as to be a constant)		

PATENT REEL: 052031 FRAME: 0115 PTO/AIA/96 (98-12)
Approved for use through 91/31/2013. OMB 6651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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STATEMENT UNDE	7 37 CFR 3.73(c)				
Applicant/Patent Cwner: International Business Machines Corp	oration				
Application No./Patent No.: 16/267,489	Filed/Issue Date: February 5, 2019				
Titled: RECOGNITION OF OUT-OF-VOCABULARY IN DIRECT ACQUISTICS-TO-WORD SPEECH RECOGNITION USING ACQUISTIC WORD EMBEDDING					
International Business Machines Corporation , a Corporatio	n				
(Name of Assignee) (Type of Assign	ee, e.g., corporation, partnership, university, government agency, etc.)				
states that, for the patent application/patent identified above, it is (c	thoose <u>one</u> of options 1, 2, 3 or 4 below):				
1. The assignee of the entire right, title, and interest.					
2. An assignee of less than the entire right, title, and interest					
The extent (by percentage) of its ownership interest is holding the balance of the interest <u>must be submitted</u> to ac	CORRECTOR TO THE OWNERS IN BRIDGEST.				
There are unspecified percentages of ownership. The right, title and interest are:	other parties, including inventors, who together own the entire				
Additional Statement(s) by the owner(s) holding the bala right, title, and interest.	unce of the interest <u>must be submitted</u> to account for the entire				
3. The assignee of an undivided interest in the entirety (a con The other parties, including inventors, who together own the entire	nplete assignment from one of the joint inventors was made).				
Additional Statement(s) by the owner(s) holding the bala right, title, and interest.	nce of the interest <u>must be submitted</u> to account for the entire				
4. The recipient, via a court proceeding or the like (e.g., banks complete transfer of ownership interest was made). The certified of	uptcy, probate), of an undivided interest in the entirety (a focument(s) showing the transfer is attached.				
The interest identified in option 1, 2 or 3 above (not option 4) is evi	denced by either (choose one of options A or B below):				
A. An assignment from the inventor(s) of the patent application the United States Patent and Trademark Office at Reel Office thereof is attached.	n/patent identified above. The assignment was recorded in 1949 prame 1968 or for which a copy				
B. A chain of title from the inventor(s), of the patent application	n/patent identified above, to the current assignee as follows:				
1, From:	To:				
The document was recorded in the United State					
Reel, Frame, or					
	To:				
The document was recorded in the United State	s Patent and Trademark Office at				
Reel, Frame, or	for which a copy thereof is attached.				

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This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/AIA/96 (08-12)

Approved for use through 01/31/2013. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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		STATEME	VT UNDER 37 CFR 3.73(c)	
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	Reel	Frame	or for which a copy thereo	f is attached.
Additio	nal documents i	n the chain of title are	listed on a supplemental sheet(s).	
As requir	red by 37 CFR 3 was, or concur	.73(c)(1)(i), the documently is being, submitt	nentary evidence of the chain of title ted for recordation pursuant to 37 C	e from the original owner to the SFR 3.11.
[NOTE: / Division	A separate copy in accordance w	(i.e., a true copy of the ith 37 CFR Part 3, to r	e original assignment document(s)] record the assignment in the record	must be submitted to Assignment is of the USPTO. See MPEP 302.08
The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.    3/5/2020     Signature   Date				
	/lcGinn, Es	sa.		34,386
Printed or Typed		- og 2		Title or Registration Number

[Page 2 of 2]

**PATENT REEL: 052031 FRAME: 0117**