PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6968892

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the OMISSION OF 2ND RECEIVING PARTY DATA previously recorded on Reel 056774 Frame 0116. Assignor(s) hereby confirms the ADDITION OF NOTRE DAME / INVENTORS: QINGKAI ZENG, WENHAO YU, MENG JIANG.

CONVEYING PARTY DATA

Name	Execution Date
LINGFEI WU	06/15/2021
YU DENG	06/19/2021
RUCHI MAHINDRU	06/15/2021
SINEM GUVEN KAYA	06/15/2021
QINGKAI ZENG	06/28/2021
WENHAO YU	06/28/2021
MENG JIANG	06/28/2021

RECEIVING PARTY	DATA
Name:	INTERNATIONAL BUSINESS MACHINES CORPORATION
Street Address:	NEW ORCHARD ROAD
City:	ARMONK
State/Country:	NEW YORK
Postal Code:	10504
Name:	UNIVERSITY OF NOTRE DAME
Street Address:	940 GRACE HALL
City:	NOTRE DAME
State/Country:	INDIANA
Postal Code:	46556

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17369040

CORRESPONDENCE DATA

Fax Number:

(607)429-4119

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: 607-429-5281

Phone:607-429-5281Email:edciplaw@us.ibm.com

	CORPORATION - PATENT CENTER
	NORTH STREET
Address Line 2: B/25	6-3
Address Line 4: END	ICOTT, NEW YORK 13760
ATTORNEY DOCKET NUMBER:	P202100237US01
NAME OF SUBMITTER:	PATRICE M. ORTEGA
SIGNATURE:	/Patrice M. Ortega/
DATE SIGNED:	10/14/2021
Total Attachments: 11	
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DECLARATION (37 C.F.R. § 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. § 1.76) AND ASSIGNMENT

Title of Invention: NON-FACTOID QUESTION ANSWERING ACROSS TASKS AND DOMAINS

As a below named and undersigned inventor, I hereby declare that:

•

This declaration is directed to the application that was provided to me electronically on or about 2021-6-14.

[] United States application 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 application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56.

Whereas, I ("ASSIGNOR") have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application and further identified by the IBM Docket Number provided above in the header of this document;

Whereas, International Business Machines Corporation (herein referred to as the "ASSIGNEE"), a corporation of New York having a place of business at Armonk, New York, desires to acquire, and I desire to grant to the ASSIGNEE, my entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, I hereby sell or have sold, assign or have assigned, and otherwise transfer or have transferred to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, I hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by me had this Assignment not been made; and I agree to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns,

whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to the ASSIGNEE and am unaware of any reason why I may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed, and will not execute, any document or instrument in conflict herewith. I also hereby grant the ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

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

Signature: E-S	
Date:	2021-06-15
(2) Legal Name	of Inventor: LINGFEI WU
Signature: E	-SIGNED by /Yu Deng/
Date:	2021-06-19
(3) Legal Name	of Inventor: Yu Deng
Signature: E-S	SIGNED by /Ruchi Mahindru/
Date:	2021-06-15
(5) Legal Name	of Inventor: Ruchi Mahindru
Signature: E-S	IGNED by /Sinem Guven Kaya/
Date:	2021-06-15
(6) Legal Name	of Inventor: Sinem Guven Kaya

ASSIGNMENT

Pursuant to our obligation to the **University of Notre Dame du Lac** (hereinafter referred to as "Assignee"), having its principal place of business at:

Notre Dame IDEA Center Innovation Park, Mailbox 158 1400 East Angela Blvd. South Bend, IN 46617 USA

and for other valuable and sufficient consideration, receipt whereof is hereby acknowledged,

we:

Qingkai Zeng c/o University of Notre Dame du Lac Innovation Park, Mailbox 158 1400 East Angela Blvd. South Bend, IN 46617 USA

Wenhao Yu c/o University of Notre Dame du Lac Innovation Park, Mailbox 158 1400 East Angela Blvd. South Bend, IN 46617 USA

Meng Jiang c/o University of Notre Dame du Lac Innovation Park, Mailbox 158 1400 East Angela Blvd. South Bend, IN 46617 USA

confirm our obligation to and hereby sell, assign and convey, unto Assignee, its successors and assigns, our entire right, title and interest -

 in and to inventions described in a patent application titled "NON-FACTOID QUESTION ANSWERING ACROSS TASKS AND DOMAINS" for which we filed United States Patent Application No. ____ on ____ (Attorney Docket No.____) (hereinafter "U.S. patent application");

(2) in and to the U.S. patent application, in and to all other patent applications (including non-provisional, divisional, continuation, continuation-in-part, and reissue applications) based upon said inventions, and in and to the patent or patents to be granted thereon, to the full end of the term or terms for which said patent or patents may be granted;

(3) in and to all patent applications on said invention now or hereafter filed in countries foreign to the United States of America, and in and to any and all patents granted on said applications to the full end of the terms for which said patents may be granted; and

(4) under the International Convention in respect to the U.S. patent application.

I hereby authorize the assignee or attorney of record to insert in the appropriate place in this document the application number of my application after execution of this Assignment. I agree that any patent applications of any foreign countries which may be filed shall be filed in the name of Assignee with a claim to priority based on the U.S. patent application. I hereby agree that I will, upon demand of Assignee, its successors or assigns, and without further consideration to me, execute any and all papers that may be necessary, or deemed by Assignee, its successors or assigns, to be necessary, to a complete fulfillment of the intent and purposes of this Assignment, it being understood that any expense incident to the execution of such papers shall be paid by Assignee, its successors and assigns, and not by me.

The Commissioner of Patents and Trademarks of the United States is hereby authorized and requested to issue said patent or patents to Assignee.

6/28/202

Date

6/28/2021

6/28/2021

Zono Uingka.

Qingkai Zeng

Wennao Yu

Meng Jiang

2 of 2

PTDALADI (05:00 Approved for use through 11/00/020, DBB 0051-0232 U.S. Petent and Trademark Office: U.S. DEPAR MENT OF COMMERCIES

.	LARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)
Title of Invention	NON-FACTOID QUESTION ANSWERING ACROSS TASKS AND DOMAINS
As the belo	w named inventor, I hereby declare that:
This declar is directed	HINE LOS 2020080 Shourshop or
	United States application or PCT international application number
	filed on
The above-	identified application was made or authorized to be made by me.
believe tha	at I am the original inventor or an original joint inventor of a claimed invention in the application.
	cnowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 oprisonment of not more than five (5) years, or both.
	WARNING:
contribute k other than a petitioners/a JSPTO. Pe application (patent. Furl referenced i	pplicant is cautioned to avoid submitting personal information in documents filed in a patent application that may or identity theft. Personal information such as social security numbers, bank account numbers, or credit card number a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPT petition or an application. If this type of personal information is included in documents submitted to the USPTO, applicants should consider redacting such personal information from the documents before submitting them to the atticent/applicant is advised that the record of a patent application is available to the public after publication of the (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a thermore, the record from an abandoned application may also be available to the public if the application is in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms submitted for payment purposes are not retained in the application file and therefore are not publicly available.
LEGAL N	AME OF INVENTOR
	Qingkai Zeng Date (Optional): 6/28/202
Inventor: Signature	<u>(Xingku Elng</u>

THIS ADDRESS SEND TO: Commissioner for Palents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need essistance in completing the form, call 1-000-PTO-2199 and select option 2.

Approved for use through 11/Stronger (ALA) (08-12)

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6	the Paperwork Reduction Act of 1995, no persons are required to respond to a soluction of information unless it displays a valid UNB control number LARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)
Title of Invention	NON-FACTOID QUESTION ANSWERING ACROSS TASKS AND DOMAINS
As the belo	w named inventor, I hereby declare that:
This declar is directed	
	United States application or PCT international application number
	filed on
The above-i	dentified application was made or authorized to be made by me.
believe tha	t I am the original inventor or an original joint inventor of a claimed invention in the application.
hereby ack by fine or im	nowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 prisonment of not more than five (5) years, or both.
	WARNING:
contribute to other than a o support a petitioners/a JSPTO. Pe upplication (patent. Furti eferenced ir	plicant is cautioned to avoid submitting personal information in documents filed in a patent application that may identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers is check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO petition or an application. If this type of personal information is included in documents submitted to the USPTO, oplicants should consider redacting such personal information from the documents before submitting them to the titioner/applicant is advised that the record of a patent application is available to the public after publication of the unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a nermore, the record from an abandoned application may also be available to the public if the application is in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms is not retained in the application file and therefore are not publicly available.
LEGAL NA	ME OF INVENTOR
Inventor:	Vieng Jiang Date (Optional)6/28/2021
Signature:	St. 18
iote: An appli sen previous	cation data sheet (PTQ/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have ly filed. Use an additional PTO/AIA/01 form for each additional inventor.
mpiets, include mpiets, include mments on the stent and Trade	information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and 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 1 minute to an gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any 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. mark Office, U.S. Department of Commerce, P.C. Box 1450, Alexandria, VA 22313-1450, OO NOT SEND FEES OR COMPLETED FORMS TO SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need essistance in completing the form, call 1-800-PTO-8199 and select option 2.

PTO/AUAO1 (05-12) Approved for use through 11/30/2020, CM8 StB1-0032 U.S. Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number
DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)
Title of NON-FACTOID QUESTION ANSWERING ACROSS TASKS AND DOMAINS
As the below named inventor, I hereby declare that:
This declaration
is directed to: The attached application, or
United States application 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 onginal joint inventor of a claimed invention in the application.
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.
WARNING:
Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.
LEGAL NAME OF INVENTOR
Inventor: Wenhao Yu Date (Optional) : 06/28/2021
Signature:
Note: An application data sheet (PTO/88/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.
This collection of information is required by 35 U.S.C. 116 and 37 CFR 1.63. 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 1 minute to complete, including gethering, 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, cell 1-800-PTC-9199 and select option 2.

506753036 07/07/2021 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6799853

SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYA	NCE:	ASSIGNMENT			
CONVEYING PARTY	ΔΤΑ				
		Name	Execution Date		
LINGFEI WU			06/15/2021		
YU DENG			06/19/2021		
RUCHI MAHINDRU			06/15/2021		
SINEM GUVEN KAYA			06/15/2021		
RECEIVING PARTY D	ΑΤΑ				
Name:	INTER	NATIONAL BUSINESS MACHINES COR	PORATION		
Street Address:	NEW C	DRCHARD ROAD			
City:	ARMO	NK			
State/Country:	NEW Y	/ORK			
Postal Code:	10504				
Property Type Application Number:	,	Number 17369040			
CORRESPONDENCE	DATA				
Fax Number:	h	(607)429-4119	waaaaful itwill ba aant		
Correspondence will		(607)429-4119 o the e-mail address first; if that is uns d; if that is unsuccessful, it will be sent			
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<i>Correspondence will using a fax number, if</i> Phone: Email:	f provided	o the e-mail address first; if that is uns d; if that is unsuccessful, it will be sent 607-429-5281 edciplaw@us.ibm.com	t via US Mail.		
Correspondence will using a fax number, if Phone: Email: Correspondent Name	f provided	o the e-mail address first; if that is uns d; if that is unsuccessful, it will be sent 607-429-5281 edciplaw@us.ibm.com IBM CORPORATION - PATENT CENTE	t via US Mail.		
Correspondence will i using a fax number, if Phone: Email: Correspondent Name Address Line 1:	f provided	o the e-mail address first; if that is unside d; if that is unsuccessful, it will be sent 607-429-5281 edciplaw@us.ibm.com IBM CORPORATION - PATENT CENTE 1701 NORTH STREET	t via US Mail.		
Correspondence will using a fax number, if Phone: Email: Correspondent Name Address Line 1: Address Line 2:	f provided	o the e-mail address first; if that is unsid; if that is unsuccessful, it will be sent 607-429-5281 edciplaw@us.ibm.com IBM CORPORATION - PATENT CENTE 1701 NORTH STREET B/40-3	t via US Mail.		
Correspondence will i using a fax number, if Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 4:	f provideo :	o the e-mail address first; if that is unside d; if that is unsuccessful, it will be sent 607-429-5281 edciplaw@us.ibm.com IBM CORPORATION - PATENT CENTE 1701 NORTH STREET B/40-3 ENDICOTT, NEW YORK 13760	t via US Mail.		
Correspondence will using a fax number, if Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 4:	f provided : IUMBER:	b the e-mail address first; if that is unside; b that is unsuccessful, it will be sent 607-429-5281 edciplaw@us.ibm.com IBM CORPORATION - PATENT CENTE 1701 NORTH STREET B/40-3 ENDICOTT, NEW YORK 13760 P202100237US01	t via US Mail.		
Correspondence will using a fax number, if Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 2: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER	f provided : IUMBER:	o the e-mail address first; if that is unsuccessful, it will be sentd; if that is unsuccessful, it will be sent607-429-5281edciplaw@us.ibm.comIBM CORPORATION - PATENT CENTE1701 NORTH STREETB/40-3ENDICOTT, NEW YORK 13760P202100237US01COURTNEY BERESNIEWICZ	t via US Mail.		
Correspondence will using a fax number, if Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 2: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER SIGNATURE:	f provided : IUMBER:	b the e-mail address first; if that is unside d; if that is unsuccessful, it will be sent 607-429-5281 edciplaw@us.ibm.com IBM CORPORATION - PATENT CENTE 1701 NORTH STREET B/40-3 ENDICOTT, NEW YORK 13760 P202100237US01 COURTNEY BERESNIEWICZ /Courtney Beresniewicz/	t via US Mail.		
Correspondence will using a fax number, if Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 4:	f provided : IUMBER:	b the e-mail address first; if that is unside d; if that is unsuccessful, it will be sent 607-429-5281 edciplaw@us.ibm.com IBM CORPORATION - PATENT CENTE 1701 NORTH STREET B/40-3 ENDICOTT, NEW YORK 13760 P202100237US01 COURTNEY BERESNIEWICZ /Courtney Beresniewicz/ 07/07/2021	t via US Mail.		
Correspondence will using a fax number, if Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 2: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER SIGNATURE:	f provided : IUMBER:	b the e-mail address first; if that is unside d; if that is unsuccessful, it will be sent 607-429-5281 edciplaw@us.ibm.com IBM CORPORATION - PATENT CENTE 1701 NORTH STREET B/40-3 ENDICOTT, NEW YORK 13760 P202100237US01 COURTNEY BERESNIEWICZ /Courtney Beresniewicz/	t via US Mail.		

506753059 07/07/2021 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6799876

ATURE OF CONVE			IEW ASSIGNMENT	
NATURE OF CONVEYANCE:		A	SSIGNMENT	
CONVEYING PART	Υ DATA			
		Na	ame	Execution Date
QINGKAI ZENG				06/28/2021
WENHAO YU				06/28/2021
MENG JIANG				06/28/2021
RECEIVING PARTY	' DATA			
Name:	UNIVE	RSITY	OF NOTRE DAME	
Street Address:	940 GF	RACE H	ALL	
City:	NOTRI	E DAME		
State/Country:		NA		
Postal Code:	46556			
PROPERTY NUMBE	ERS Total: 1			
Property Ty	/ре		Number	
Application Numbe	er:	173690	40	
CORRESPONDENC Fax Number:	E DATA	(607)42	9-4119	
Fax Number: <i>Correspondence w</i>	ill be sent to		mail address first; if that is unsu	
Fax Number: <i>Correspondence w</i> <i>using a fax number</i>	ill be sent to	o the e-i d; if that	mail address first; if that is unsu t is unsuccessful, it will be sent	
Fax Number: <i>Correspondence w using a fax number</i> Phone:	ill be sent to	o the e-i d; if that 607-429	<i>mail address first; if that is unsu</i> t is unsuccessful, it will be sent Ə-5281	
Fax Number: <i>Correspondence w using a fax number</i> Phone: Email:	ill be sent to r, if provided	o the e-i d; if that 607-429 edciplay	<i>mail address first; if that is unsu</i> t <i>is unsuccessful, it will be sent</i> 9-5281 w@us.ibm.com	via US Mail.
Fax Number: <i>Correspondence w using a fax number</i> Phone:	ill be sent to r, if provided	o the e-i d; if that 607-429 edciplay IBM CC	<i>mail address first; if that is unsu</i> t is unsuccessful, it will be sent Ə-5281	via US Mail.
Fax Number: <i>Correspondence w using a fax number</i> Phone: Email: Correspondent Nar	ill be sent to r, if provided	o the e-i d; if that 607-429 edciplay IBM CC	<i>mail address first; if that is unsu</i> t <i>is unsuccessful, it will be sent</i> 9-5281 w@us.ibm.com 0RPORATION - PATENT CENTEI	via US Mail.
Fax Number: <i>Correspondence w using a fax number</i> Phone: Email: Correspondent Nar Address Line 1:	ill be sent to r, if provided	o the e-i d; if that 607-429 edciplay IBM CC 1701 N B/40-3	<i>mail address first; if that is unsu</i> t <i>is unsuccessful, it will be sent</i> 9-5281 w@us.ibm.com 0RPORATION - PATENT CENTEI	via US Mail.
Fax Number: <i>Correspondence w using a fax number</i> Phone: Email: Correspondent Nar Address Line 1: Address Line 2:	ill be sent to r, if provided ne:	o the e-i d; if that 607-429 edciplay IBM CC 1701 N B/40-3 ENDICC	<i>mail address first; if that is unsu</i> t <i>is unsuccessful, it will be sent</i> 9-5281 w@us.ibm.com 0RPORATION - PATENT CENTEI 0RTH STREET	via US Mail.
Fax Number: <i>Correspondence w using a fax number</i> Phone: Email: Correspondent Nar Address Line 1: Address Line 2: Address Line 4:	ill be sent to r, if provided me: T NUMBER:	o the e-i d; if that 607-429 edciplay IBM CC 1701 N B/40-3 ENDICC	<i>mail address first; if that is unsu</i> t <i>is unsuccessful, it will be sent</i> 9-5281 w@us.ibm.com DRPORATION - PATENT CENTER ORTH STREET DTT, NEW YORK 13760	via US Mail.
Fax Number: <i>Correspondence wi using a fax number</i> Phone: Email: Correspondent Nar Address Line 1: Address Line 2: Address Line 4:	ill be sent to r, if provided me: T NUMBER:	o the e-i d; if that 607-429 edciplav IBM CC 1701 N B/40-3 ENDICC P C	mail address first; if that is unsu t is unsuccessful, it will be sent 9-5281 w@us.ibm.com DRPORATION - PATENT CENTER ORTH STREET DTT, NEW YORK 13760	via US Mail.
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UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JULY 8, 2021

PTAS

IBM CORPORATION - PATENT CENTER 1701 NORTH STREET B/40-3 ENDICOTT, NY 13760

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ASSIGNEE: INTERNATIONAL BUSINESS MACHINES CORPORATION NEW ORCHARD ROAD ARMONK, NEW YORK 10504

APPLICATION NUMBER:17369040FILING DATE:PATENT NUMBER:ISSUE DATE:TITLE:NON-FACTOID QUESTION ANSWERING ACROSS TASKS AND DOMAINS

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