

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5533325

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
YUXI HE	02/27/2019
YUQING CHEN	12/20/2018
SUNRITO BHATTACHARYA	02/27/2019
RAJAT SWAROOP	02/27/2019
GREGORY TOMEZAK	05/16/2019
RECEIVING PARTY DATA	
Name:	CDW LLC
Street Address:	200 N. MILWAUKEE AVENUE
City:	VERNON HILLS
State/Country:	ILLINOIS
Postal Code:	60061
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16293205
CORRESPONDENCE DATA	
Fax Number:	(312)474-0448
<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>	
Phone:	(312) 474-6300
Email:	docket@marshallip.com
Correspondent Name:	MARSHALL, GERSTEIN & BORUN LLP
Address Line 1:	233 S. WACKER DRIVE
Address Line 2:	6300 WILLIS TOWER
Address Line 4:	CHICAGO, ILLINOIS 60606-6357
ATTORNEY DOCKET NUMBER:	31150/53933
NAME OF SUBMITTER:	NOAH K. TILTON
SIGNATURE:	/Noah K. Tilton/
DATE SIGNED:	05/21/2019
Total Attachments: 10	

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ASSIGNMENT

Appl. No.: 62/786,196

Filed: December 28, 2018

Title: ACCOUNT MANAGER VIRTUAL ASSISTANT USING MACHINE LEARNING TECHNIQUES

For good and valuable consideration, the receipt and sufficiency of which are hereby agreed, Yuxi He, Yuqing Chen, Sunrito Bhattacharya, Rajat Swaroop, and Gregory Tomezak ("Assignor") agrees to assign and hereby does assign to CDW LLC, 200 N. Milwaukee Avenue, Vernon Hills, Illinois 60061 ("Assignee") all rights, title, and interests in and to the inventions that are disclosed in the application listed above (the "Application") including, but without limitation, all rights:

- (i) in and to the Application and all other applications anywhere in the world that have been or may be filed on said inventions and/or naming Assignor as an inventor of said inventions,
- (ii) in and to all patents issuing on any of the foregoing,
- (iii) in and to all reissues, reexaminations, supplemental examinations, inter partes reviews, oppositions, post-grant reviews, supplementary protection certificates, and/or extensions of any of the foregoing,
- (iv) to bring suit, the right to claim and retain all damages and/or seek other remedies for the past, present, and future infringement and/or misappropriation of any of the foregoing, and
- (v) of priority including, but without limitation, the right to claim priority benefit of or to the Application and all of the foregoing.

Assignor requests the Commissioner for Patents in the United States and similar authorities outside the United States to issue said patents to and in the name of Assignee or its designee. Assignor authorizes the attorneys of record in the application to insert in this assignment the filing date and application number of the Application when officially known. Assignor:

(a) declares: (1) The application was made or authorized to be made by me, (2) I believe myself, as a named inventor, to be the original inventor or an original joint inventor of a claimed invention in the Application and I understand that any willful false statement made by me in this paragraph is punishable under 18 U.S.C. §1001 by fine or imprisonment of not more than five years, or both;

(b) warrants except in favor of Assignee: (1) Assignor is the owner of all its rights, title and interests herein assigned and has the right to make this unconditional and irrevocable assignment to Assignee without obtaining any approval or permission of a third party; and (2) there are no outstanding

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encumbrances, liens, prior assignments, licenses, or other obligations or restrictions on the rights, title and interests herein assigned; and

(c) agrees to execute, upon the request of Assignee or its designee at no expense to Assignor, all applications or documents related to the inventions including, but without limitation, any oath, declaration, or affidavit relating thereto that Assignee may deem necessary or expedient, and to fully cooperate with Assignee and/or its designee to perform all affirmative acts requested to prepare, file, prosecute, maintain, defend, enforce, and vest in Assignee the rights, title, and interests assigned herein whereby said rights, title and interests will be held and enjoyed by Assignee or its designee to the full end of the term for which the intellectual property rights herein may be available as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment had not been made.

WITNESS my hand this

20 day of DECEMBER, 2018.

State of
County of

ILLINOIS
LAKE

Yuqing Chen
Yuqing Chen

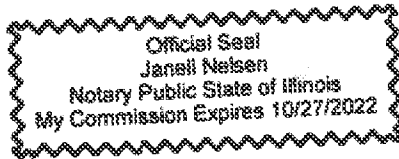
On this 20 day of DECEMBER, 2018, before me, a Notary Public in and for the County and State aforesaid, appeared Yuqing Chen, known to me personally or proved to me on the basis of satisfactory evidence to be the same person whose name is subscribed to the foregoing instrument and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires:

10/27/2022

Jansli Nelsen
Notary Public



ASSIGNMENT

Appl. No.: 16/293,205

Filed: March 5, 2019

Title: ACCOUNT MANAGER VIRTUAL ASSISTANT USING MACHINE LEARNING TECHNIQUES

For good and valuable consideration, the receipt and sufficiency of which are hereby agreed, Yuxi He, Yuqing Chen, Sunrito Bhattacharya, Rajat Swaroop, and Gregory Tomezak ("Assignor") agrees to assign and hereby does assign to CDW LLC, 200 N. Milwaukee Avenue, Vernon Hills, Illinois 60061 ("Assignee") all rights, title, and interests in and to the inventions that are disclosed in the application listed above (the "Application") including, but without limitation, all rights:

- (i) in and to the Application and all other applications anywhere in the world that have been or may be filed on said inventions and/or naming Assignor as an inventor of said inventions,
- (ii) in and to all patents issuing on any of the foregoing,
- (iii) in and to all reissues, reexaminations, supplemental examinations, inter partes reviews, oppositions, post-grant reviews, supplementary protection certificates, and/or extensions of any of the foregoing,
- (iv) to bring suit, the right to claim and retain all damages and/or seek other remedies for the past, present, and future infringement and/or misappropriation of any of the foregoing, and
- (v) of priority including, but without limitation, the right to claim priority benefit of or to the Application and all of the foregoing.

Assignor requests the Commissioner for Patents in the United States and similar authorities outside the United States to issue said patents to and in the name of Assignee or its designee. Assignor authorizes the attorneys of record in the application to insert in this assignment the filing date and application number of the Application when officially known. Assignor:

- (a) declares: (1) The application was made or authorized to be made by me, (2) I believe myself, as a named inventor, to be the original inventor or an original joint inventor of a claimed invention in the Application and I understand that any willful false statement made by me in this paragraph is punishable under 18 U.S.C. §1001 by fine or imprisonment of not more than five years, or both;
- (b) warrants except in favor of Assignee: (1) Assignor is the owner of all its rights, title and interests herein assigned and has the right to make this unconditional and irrevocable assignment to Assignee without obtaining any approval or permission of a third party, and (2) there are no outstanding

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encumbrances, liens, prior assignments, licenses, or other obligations or restrictions on the rights, title and interests herein assigned; and

(c) agrees to execute, upon the request of Assignee or its designee at no expense to Assignor, all applications or documents related to the inventions including, but without limitation, any oath, declaration, or affidavit relating thereto that Assignee may deem necessary or expedient, and to fully cooperate with Assignee and/or its designee to perform all affirmative acts requested to prepare, file, prosecute, maintain, defend, enforce, and vest in Assignee the rights, title, and interests assigned herein whereby said rights, title and interests will be held and enjoyed by Assignee or its designee to the full end of the term for which the intellectual property rights herein may be available as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment had not been made.

WITNESS our hands this 27 day of Feb, 2019.

State of Co.
County of Boulder

[Signature]
Notary Public

On this 27 day of Feb, 2019, before me, a Notary Public in and for the County and State aforesaid, appeared [Signature], known to me personally or proved to me on the basis of satisfactory evidence to be the same person/persons whose name is/are subscribed to the foregoing instrument and acknowledged that he/she executed said instrument as his/her free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires: 11-05-2022

[Signature]
Notary Public

PRISCILLA KIM
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20074028268
MY COMMISSION EXPIRES 11/05/2022

WITNESS our hands this 27th day of February, 2019.

State of Illinois
County of Lake

S. Bhattacharya
Sunrto Bhattacharya

On this 27th day of February, 2019, before me, a Notary Public in and for the County and State aforesaid, appeared Sunrto Bhattacharya, known to me personally or proved to me on the basis of satisfactory evidence to be the same person/persons whose name is/are subscribed to the foregoing instrument and acknowledged that he/she executed said instrument as his/her free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires: 10/27/2022 Jansell Nelsen
Notary Public



WITNESS our hands this 27th day of February, 2019

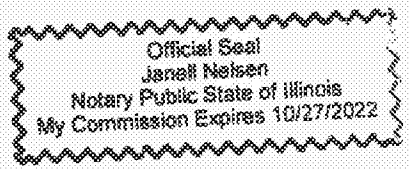
State of Illinois
County of Lake

Rajat
Rajat Swaroop

On this 29th day of February, 2019, before me, a Notary Public in and for the County and State aforesaid, appeared Rajat Swaroop, known to me personally or proved to me on the basis of satisfactory evidence to be the same person/persons whose name is/are subscribed to the foregoing instrument and acknowledged that he/she executed said instrument as his/her free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

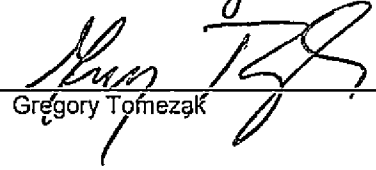
My Commission Expires: 10/27/2022 Jenell Nelsen
Notary Public



WITNESS our hands this

16th day of May, 2019.

State of Michigan
County of Oakland



Gregory Tomczak

On this _____ day of _____, _____, before me, a Notary Public in and for the County and State aforesaid, appeared _____, known to me personally or proved to me on the basis of satisfactory evidence to be the same person/persons whose name is/are subscribed to the foregoing instrument and acknowledged that he/she executed said instrument as his/her free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires: _____

Notary Public

On behalf of Assignee,
CDW LLC

STEVEN E. NIESLAWSKI
Name
VICE PRESIDENT
Title

hereby confirms Assignee's acceptance of all rights, privileges, title and interests conveyed by this assignment.

[Signature] 21 MAY 2019
Signature Date

United States of America

State of Illinois) ss:
County of Lake)

On this 21st day of May, 2019, before me personally came Steven Nieslawski, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

[Signature]
Notary Public

