

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
VENTAKA CHANDRA SEKAR RAO	07/25/2018
SUMIT GUPTA	06/25/2018
KIRTI KHADE	07/25/2018
KALPANA RAZDAN	07/25/2018
DIWAHAR SIVARAMAN	07/25/2018
RECEIVING PARTY DATA	
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Street Address:	176 SOUTH STREET
City:	HOPKINTON
State/Country:	MASSACHUSETTS
Postal Code:	01748
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16046402
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NAME OF SUBMITTER:	MICHAEL J. COOPER
SIGNATURE:	/Michael J. Cooper/
DATE SIGNED:	07/26/2018
Total Attachments: 6	

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ASSIGNMENT

WHEREAS, we, Venkata Chandra Sekar Rao, Sumit Gupta, Kirti Khade, Kalpana Razdan, Diwahar Sivaraman, have invented an invention comprising and/or embodying certain improvements or discoveries or both as described in an application for Letters Patent of the United States entitled **DYNAMICALLY DETERMINING CUSTOMER INTENT AND RELATED RECOMMENDATIONS USING DEEP LEARNING TECHNIQUES**, the specification of which:

- ☒ is being executed on even date herewith and is about to be filed in the United States Patent Office;
- ☐ was filed on _____ as U.S. Application No. _____;
- ☐ was patented under U.S. Patent No. _____ on _____.

WHEREAS, EMC IP Holding Company LLC (hereinafter "ASSIGNEE"), a limited liability company organized and existing under the laws of the State of Delaware and having a usual place of business at 176 South Street, Hopkinton, Massachusetts 01748 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey to ASSIGNEE all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including

the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals as set forth below:

25/07/2018
Date

MVR
Venkata Chandra Sekar Rao

On this 25th day of July, 2018, before me personally came Venkata Chandra Sekar Rao, to me known to be the individual who executed the foregoing instrument, and acknowledged execution of the same.

Witness 1:

Kishu Khade
Name

25/07/2018
Date

Kishu Khade
Signature

Witness 2:

Neelesh Tiwari
Name

25/07/2018
Date

Neelesh Tiwari
Signature

25/07/2018
Date

Sumit Gupta
Sumit Gupta

On this 25th day of July, 2018, before me personally came Sumit Gupta, to me known to be the individual who executed the foregoing instrument, and acknowledged execution of the same.

Witness 1:

25/07/2018
Date

Kalpana Razdan
Name
[Signature]
Signature

Witness 2:

25/07/2018
Date

Chandna Sekhar
Name
[Signature]
Signature

25/07/2018
Date

Kirti Khade
Kirti Khade

On this 25th day of July, 2018, before me personally came Kirti Khade, to me known to be the individual who executed the foregoing instrument, and acknowledged execution of the same.

Witness 1:

25/07/2018
Date

Kalbana Razdan
Name
[Signature]
Signature

Witness 2:

25/07/2018
Date

Neeraj Thakur
Name
[Signature]
Signature

25/07/2018
Date


Kalpana Razdan

On this 25th day of JULY, 2018, before me personally came Kalpana Razdan, to me known to be the individual who executed the foregoing instrument, and acknowledged execution of the same.

Witness 1:

KIRTI KHADE
Name

25/07/2018
Date

Signature Kirti Khade

Witness 2:

SUMIT GUPTA
Name

25/07/2018
Date

Signature Sumit Gupta

25/07/2018
Date

S. Diwahara
Diwahar Sivaraman

On this 25th day of JULY, 2018, before me personally came Diwahar Sivaraman, to me known to be the individual who executed the foregoing instrument, and acknowledged execution of the same.

Witness 1:

Chandra Sekhar
Name

25/07/2018
Date

MUSA
Signature

Witness 2:

NEERAJ TIWARI
Name

25/07/2018
Date

Neeraj
Signature