

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
VENKATA CHANDRA SEKAR RAO	10/29/2018
NEERAJ KUMAR TIWARI	10/29/2018
NARAYAN S. KULKARNI	10/29/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	EMC IP HOLDING COMPANY LL
<b>Street Address:</b>	176 SOUTH STREET
<b>City:</b>	HOPKINTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01748
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16172991
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(508)293-7189
<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>	
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<b>ATTORNEY DOCKET NUMBER:</b>	112837.01
<b>NAME OF SUBMITTER:</b>	LESLEY A. LEONESSA
<b>SIGNATURE:</b>	/Lesley A. Leonessa/
<b>DATE SIGNED:</b>	10/29/2018
<b>Total Attachments: 5</b>	
source=112837Executed_Assignment-Chandra_Sekar_Rao--Tiwari-Kulkarni#page1.tif	
source=112837Executed_Assignment-Chandra_Sekar_Rao--Tiwari-Kulkarni#page2.tif	
source=112837Executed_Assignment-Chandra_Sekar_Rao--Tiwari-Kulkarni#page3.tif	
source=112837Executed_Assignment-Chandra_Sekar_Rao--Tiwari-Kulkarni#page4.tif	



ASSIGNMENT

WHEREAS, we, Venkata Chandra Sekar Rao, Neeraj Kumar Tiwari and Narayan S. Kulkarni, 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 AUTOMATED DESIGN TESTING THROUGH DEEP LEARNING, the specification of which:

☒ [XX] 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 corporation 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;

AND, we hereby authorize our attorneys, EMC IP Holding Company LLC, to insert here in parenthesis ( S/N 16/172991 filed October 29, 2018 ) the application number and filing date of said Application (or foreign counterpart application) to facilitate the recording or other official processing of this Assignment.

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

Date: 24/10/2018

MVC  
Inventor's Signature

Print full name of first inventor:

Venkata Chandra Sekar Rao

Residence:

G-04, Sri Sai Sarovar Residency, Behind Bajaj  
Show Room, New Outer Ring Road Fly Over,  
Bangalore, Karnataka, India 560048

Citizenship:

India

Mailing Address:

Same as Above

I, A. Musali Krishna (name of first witness), whose residential address is  
7c, 3rd Main, BTM 1st Stage, Madivala, Bangalore  
was personally present and did see Venkata Chandra Sekar Rao (name of person signing the  
assignment), who is personally known to me, execute the above assignment.

A. Musali Krishna (signature of first witness)

Signed at EMC, Bangalore (location of witness signature)  
on this day, 29th oct, 2018 (date of signature).

I, Somit Gupta (name of second witness), whose residential address is  
No. 209, Mahavees Bower, Chinnappaiahalli, Marathahalli, Bangalore  
was personally present and did see Venkata Chandra Sekar Rao (name of person signing the  
assignment), who is personally known to me, execute the above assignment.

Somit Gupta (signature of second witness)

Signed at EMC, Bangalore (location of witness signature)  
on this day, 29th october, 2018 (date of signature).

Date: 29/10/2018

Neeraj Kumar Tiwari  
Inventor's Signature

Print full name of inventor

Neeraj Kumar Tiwari

Residence

#10 Elements Layout, Kaikondrahalli,  
Bangalore, India 560035

Citizenship

India

Mailing Address

Same as above

I, Anuragi Krishana (name of first witness), whose residential address is  
70, 24<sup>th</sup> Main, BTM 1<sup>st</sup> Stage, Madivala, Bangalore  
was personally present and did see Neeraj Kumar Tiwari (name of person signing the  
assignment), who is personally known to me, execute the above assignment.

[Signature] (signature of first witness)

Signed at EMC, Bangalore (location of witness signature)

on this day, 29<sup>th</sup> Oct, 2018 (date of signature).

I, Shmit Gupta (name of second witness), whose residential address is  
No. 209, Manjara Bower, Ghinapavahalli, Marthahalli, Bangalore  
was personally present and did see Neeraj Kumar Tiwari (name of person signing the  
assignment), who is personally known to me, execute the above assignment.

[Signature] (signature of second witness)

Signed at EMC, Bangalore (location of witness signature)

on this day, 29<sup>th</sup> Oct, 2018 (date of signature).

Date: 29-10-2018



Inventor's Signature

Print full name of inventor

Narayan Kulkarni

Residence

1184 Skanda Nivasa, Ground Floor, Hosakerehalli  
2nd Cross Near Vittala Ey, Bangalore, Karnataka,  
India 560085

Citizenship

India

Mailing Address

Same as above

I, A. Murali Krishna (name of first witness), whose residential address is  
70, 34th Main, BTM 1st stage, Madivala, Bangalore.

was personally present and did see Narayan Kulkarni (name of person signing the assignment),  
who is personally known to me, execute the above assignment.



(signature of first witness)

Signed at Emc, Bangalore (location of witness signature)

on this day, 29th oct, 2018 (date of signature).

I, Samit Gupta (name of second witness), whose residential address is  
No. 209, Mahaveer Tower, Chinnaprabhal, Marthahalli, Bangalore

was personally present and did see Narayan Kulkarni (name of person signing the assignment),  
who is personally known to me, execute the above assignment.



(signature of second witness)

Signed at Emc, Bangalore (location of witness signature)

on this day, 29th october, 2018 (date of signature).