

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SHUAI ZHENG	10/11/2016
KOSTA RISTOVSKI	10/10/2016
CHETAN GUPTA	10/10/2016
AHMED FARAHAT	10/10/2016
RECEIVING PARTY DATA	
Name:	HITACHI, LTD.
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City:	CHIYODA-KU, TOKYO
State/Country:	JAPAN
Postal Code:	100-8280
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16074495
CORRESPONDENCE DATA	
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<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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Correspondent Name:	PROCOPIO, CORY, HARGREAVES & SAVITCH LLP
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Address Line 2:	SUITE 2200
Address Line 4:	SAN DIEGO, CALIFORNIA 92101
ATTORNEY DOCKET NUMBER:	124512-082US1
NAME OF SUBMITTER:	JESSICA R. GROSS
SIGNATURE:	/Jessica R. Gross/
DATE SIGNED:	08/01/2018
Total Attachments: 2	
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Assignment

Whereas, We, **Shuai Zheng** of Arlington, TX, **Kosta Ristovski** of San Jose, CA, **Chetan Gupta** of San Mateo, CA, **Ahmed Farahat** of Santa Clara, CA, hereinafter called assignors, have invented certain improvements in **DEEP LONG SHORT TERM MEMORY NETWORK FOR ESTIMATION OF REMAINING USEFUL LIFE OF THE COMPONENTS** and executed an application for Letters Patent of the United States of America therefor; and

Whereas, **HITACHI, LTD.** 6-6 Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8280, Japan (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, and all countries foreign thereto, including rights of priority under the International Convention of Paris (1883) as amended, including the right to claim priority under 35 U.S.C. §119, and We request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and We hereby agree that the assignee may apply for foreign Letters Patent on the invention and We will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.

We hereby authorize and request our attorneys **PROCOPIO, CORY, HARGREAVES & SAVITCH LLP** of 525 B Street Suite 2200, San Diego, CA 92101 to insert here in parentheses (Application number 16/074,495 and Confirmation number 4880, filed August 1, 2018) the application number, confirmation number and filing date of said application when known.

Date: 10/11/2016

Shuai Zheng
s/ **Shuai Zheng**

Date:

Kosta Ristovski
s/ **Kosta Ristovski**

Date:

Chetan Gupta
s/ **Chetan Gupta**

Date:

Ahmed Farahat
s/ **Ahmed Farahat**

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

Assignment

Whereas, We, Shuai Zheng of Arlington, TX, Kosta Ristovski of San Jose, CA, Chetan Gupta of San Mateo, CA, Ahmed Farahat of Santa Clara, CA, hereinafter called assignors, have invented certain improvements in **DEEP LONG SHORT TERM MEMORY NETWORK FOR ESTIMATION OF REMAINING USEFUL LIFE OF THE COMPONENTS** and executed an application for Letters Patent of the United States of America therefor; and

Whereas, HITACHI, LTD. 6-6 Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8280, Japan (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, and all countries foreign thereto, including rights of priority under the International Convention of Paris (1883) as amended, including the right to claim priority under 35 U.S.C. §119, and We request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and We hereby agree that the assignee may apply for foreign Letters Patent on the invention and We will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.

We hereby authorize and request our attorneys PROCOPIO, CORY, HARGREAVES & SAVITCH LLP of 525 B Street Suite 2200, San Diego, CA 92101 to insert here in parentheses (Application number 16/074,495 and Confirmation number 4880, filed August 1, 2018) the application number, confirmation number and filing date of said application when known.

Date:

s/ Shuai Zheng

Date:

10/10/16

K. Ristovski

s/ Kosta Ristovski

Date:

10-10-16

Chetan Gupta

s/ Chetan Gupta

Date:

10/10/16

Ahmed Farahat

s/ Ahmed Farahat

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)