

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CHI ZHANG	06/13/2018
CHETAN GUPTA	06/13/2018
AHMED KHAIRY FARAHAT	06/13/2018
KOSTA RISTOVSKI	06/13/2018
DIPANJAN GHOSH	06/13/2018
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16007892
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NAME OF SUBMITTER:	ERNEST C. HUANG
SIGNATURE:	/Ernest C. Huang/
DATE SIGNED:	06/14/2018
Total Attachments: 2	

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PATENT

REEL: 046339 FRAME: 0294

Assignment


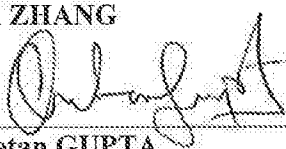
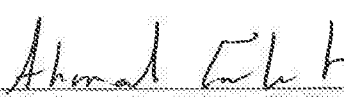
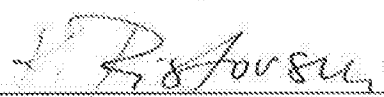

Whereas, We, **Chi ZHANG** of San Jose, California, **Chetan GUPTA** of San Mateo, California, **Ahmed Khairy FARAHAT** of Santa Clara, California, **Kosta RISTOVSKI** of San Jose, California, and **Dipanjan GHOSH** of Santa Clara, California, hereinafter called assignor, have invented certain improvements in **AUTOMATIC HEALTH INDICATOR LEARNING USING REINFORCEMENT LEARNING FOR PREDICTIVE MAINTENANCE** 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 assignor(s), 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 _____ and Confirmation number _____, filed _____) the application number, confirmation number and filing date of said application when known.

Date: 06/13/2018	 s/ Chi ZHANG
Date: 6/13/2018	 s/ Chetan GUPTA
Date: 06/13/2018	 s/ Ahmed Khairy FARAHAT
Date: 06/13/2018	 s/ Kosta RISTOVSKI
Date: 14-Jun - 2018	 s/ Dipanjan GHOSH

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