

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6359514

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the ASSIGNEE ADDRESS previously recorded on Reel 051443 Frame 0282. Assignor(s) hereby confirms the ASSIGNEE ADDRESS.
<b>RESUBMIT DOCUMENT ID:</b>	506282159
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HIRONORI WATANABE	12/03/2019
KAZUYA KOKUBO	12/03/2019
MUNEAKI IKUMA	12/03/2019
JUNPEI TANAKA	11/19/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	KURABE INTERNATIONAL CO. LTD.
<b>Street Address:</b>	4830 TAKATSUKA-CHO, MINAMI-KU
<b>City:</b>	HAMAMATSU-SHI, SHIZUOKA
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	4328521
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16627145
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(971)271-8021
<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>	
<b>Phone:</b>	9712718020
<b>Email:</b>	foreigninbound@mccrus.com
<b>Correspondent Name:</b>	MCCOY RUSSELL LLP
<b>Address Line 1:</b>	806 SW BROADWAY
<b>Address Line 2:</b>	SUITE 600
<b>Address Line 4:</b>	PORTLAND, OREGON 97205
<b>ATTORNEY DOCKET NUMBER:</b>	HIB19319PCTUS
<b>NAME OF SUBMITTER:</b>	MARIE DOSICK
<b>SIGNATURE:</b>	/Marie Dosick/
<b>DATE SIGNED:</b>	10/20/2020

**Total Attachments: 5**

source=Corrective\_Assignment\_HIB19319PCTUS#page1.tif

source=Corrective\_Assignment\_HIB19319PCTUS#page2.tif

source=Corrective\_Assignment\_HIB19319PCTUS#page3.tif

source=Corrective\_Assignment\_HIB19319PCTUS#page4.tif

source=Corrective\_Assignment\_HIB19319PCTUS#page5.tif

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HIRONORI WATANABE	12/03/2019
KAZUYA KOKUBO	12/03/2019
MUNEAKI IKUMA	12/03/2019
JUNPEI TANAKA	11/19/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	KURABE INDUSTRIAL CO., LTD.,
<b>Street Address:</b>	4830 TAKATSUKA-CHO, MINAMI-KU
<b>City:</b>	<del>HAMATSU-CITY, SHIZUOKA</del> HAMAMATSU-SHI, SHIZUOKA
<b>State/ Country:</b>	JAPAN
<b>Postal Code:</b>	4328521
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16627145
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(971)271-8021
<b>Phone:</b>	9712718020
<b>Email:</b>	foreigninbound@mccrus.com
<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>	
<b>Correspondent Name:</b>	MCCOY RUSSELL LLP
<b>Address Line 1:</b>	806 SW BROADWAY
<b>Address Line 4:</b>	PORTLAND, OREGON 97205
<b>ATTORNEY DOCKET NUMBER:</b>	HIB19319PCTUS
<b>NAME OF SUBMITTER:</b>	OONA R. FISHER CAMPBELL
<b>Signature:</b>	/Oona R. Fisher Campbell/
<b>Date:</b>	12/27/2019
<b>Total Attachments: 1</b> source= Assignment_HIB19319PCTUS# page1.tif	

PATENT

REEL: 054120 FRAME: 0693

RECEIPT INFORMATION	
EPAS ID:	PAT5886874
Receipt Date:	12/27/2019

PATENT

REEL: 054120 FRAME: 0694

MARKED-UP



**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JANUARY 9, 2020

PTAS

MCCOY RUSSELL LLP  
806 SW BROADWAY  
PORTLAND, OR 97205

**505839940**

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 12/27/2019

REEL/FRAME: 051443/0282  
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: HIB19319PCTUS

ASSIGNOR:  
WATANABE, HIRONORI

DOC DATE: 12/03/2019

ASSIGNOR:  
KOKUBO, KAZUYA

DOC DATE: 12/03/2019

ASSIGNOR:  
IKUMA, MUNAKI

DOC DATE: 12/03/2019

ASSIGNOR:  
TANAKA, JUNPEI

DOC DATE: 11/19/2019

ASSIGNEE:  
KURABE INDUSTRIAL CO., LTD.,  
4830 TAKATSUKA-CHO, MINAMI-KU  
~~HAMAMATSU SHI~~, SHIZUOKA, JAPAN 4328521  
**HAMAMATSU-SHI**

APPLICATION NUMBER: 16627145  
PATENT NUMBER:  
TITLE: HEAT GENERATING APPARATUS

FILING DATE:  
ISSUE DATE:

**MARKED-UP**

ASSIGNMENT RECORDATION BRANCH  
PUBLIC RECORDS DIVISION

ASSIGNMENT

WHEREAS, I/we, the following named inventor(s):

1. Hironori WATANABE, residing in Shizuoka, Japan;
2. Kazuya KOKUBO, residing in Shizuoka, Japan;
3. Muneaki IKUMA, residing in Shizuoka, Japan; and
4. Junpei TANAKA, residing in Shizuoka, Japan;

have invented an invention entitled HEAT GENERATING APPARATUS  
for which I/we have executed an application for Letters Patent of the United States (check one):

- ( ) on the date I/we executed this assignment;  
(X) as U.S. Patent Application No. 16/627,145, filed December 27, 2019;  
( ) as International Application No. \_\_\_\_\_, filed \_\_\_\_\_;

I/we authorize the attorneys/agents authorized to act under Customer Number 145572 to insert the filing date and application number of said application when known.

WHEREAS, KURABE INDUSTRIAL CO., LTD. ("Assignee"), a Japanese organization, having its principal place of business at 4830 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 4328521, Japan, is desirous of acquiring an interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I/we, the above named inventor(s), have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto Assignee, the full and exclusive right to the above-identified invention in the United States and its territorial possessions and in all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries, and in and to any and all divisions, reissues, continuations and extensions thereof, and all priority rights under all present or future conventions and treaties, and any provisional applications for which priority is claimed.

I/We hereby authorize and request the Patent Office officials in the United States and any and all foreign countries to issue any and all of said Letters Patent, when granted, to Assignees, as the assignees of my/our entire right, title and interest in and to the same, for the sole use of the Assignees, their successors and assigns.

Further, I/we agree that I/we will communicate to Assignees, or their representatives, any facts known to me/us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to Assignees, make all rightful oaths and generally do everything possible to aid Assignees, their successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.

IN TESTIMONY WHEREOF, I/we have hereunto set my/our hand(s) on the dates indicated below.

- |  |                                     |   |
|--|-------------------------------------|---|
| 1. Inventor Name: <u>Hironori WATANABE</u> | Signature: <u>Hironori Watanabe</u> | Date: <u>DEC. 3, 2019</u> <sup>H.W.</sup> |
| 2. Inventor Name: <u>Kazuya KOKUBO</u>     | Signature: <u>Kazuya Kokubo</u>     | Date: <u>DEC. 3, 2019</u> <sup>K.K.</sup> |
| 3. Inventor Name: <u>Muneaki IKUMA</u>     | Signature: <u>Muneaki Ikuma</u>     | Date: <u>DEC. 3, 2019</u>                 |
| 4. Inventor Name: <u>Junpei TANAKA</u>     | Signature: <u>Junpei Tanaka</u>     | Date: <u>Nov. 19, 2019</u>                |