PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6505996

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TATSUYA SHOUJI	12/11/2020
SHUHO KOSEKI	12/11/2020
KENICHI INOUE	12/11/2020
KATSUHIRO OBATA	12/11/2020
SATOSHI MURAKAMI	12/11/2020
NAOKI HAYASHI	12/11/2020
YOSHIKAZU SUZUKI	12/11/2020
TOSHIFUMI MIYAMOTO	12/11/2020
TORU OTOMO	12/11/2020
NOBUHIRO IKEDA	12/11/2020
KOUSUKE UDA	12/11/2020
TAKASHI OGISU	12/11/2020

RECEIVING PARTY DATA

Name:	HITACHI METALS, LTD.	
Street Address:	2-70, KONAN 1-CHOME, MINATO-KU	
City:	TOKYO	
State/Country:	JAPAN	
Postal Code:	1088224	
Name:	TOYOTA JIDOSHA KABUSHIKI KAISHA	
Street Address:	1, TOYOTA-CHO, TOYOTA-SHI	
City:	AICHI	
State/Country:	JAPAN	
Postal Code:	4718571	
Name:	DAIDO CHEMICAL CO., LTD.	
Street Address:	2-2-1400, UMEDA 1-CHOME, KITA-KU, OSAKA-SHI	
City:	OSAKA	
State/Country:	JAPAN	
Postal Code:	5300001	
Name:	UMETOKU CO., LTD	
Street Address:	3-7, CHAYAMACHI, KITA-KU, OSAKA-SHI	

PATENT REEL: 054971 FRAME: 0620

506459223

City:	OSAKA
State/Country:	JAPAN
Postal Code:	5308377

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17056746

CORRESPONDENCE DATA

Fax Number: (971)271-8021

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.

Phone: 9712718020

Email: foreigninbound@mccrus.com

Correspondent Name: MCCOY RUSSELL LLP

Address Line 1: 1410 NW JOHNSON STREET SUITE 201

Address Line 4: PORTLAND, OREGON 97209

ATTORNEY DOCKET NUMBER:	HIB20316PCTUS
NAME OF SUBMITTER:	ANDREW SHUTE
SIGNATURE:	/Andrew Shute/
DATE SIGNED:	01/20/2021

Total Attachments: 8

source=Assignment_HIB20316PCTUS#page1.tif source=Assignment_HIB20316PCTUS#page2.tif source=Assignment_HIB20316PCTUS#page3.tif source=Assignment_HIB20316PCTUS#page4.tif source=Assignment_HIB20316PCTUS#page5.tif source=Assignment_HIB20316PCTUS#page6.tif source=Assignment_HIB20316PCTUS#page7.tif source=Assignment_HIB20316PCTUS#page8.tif

WHEREAS, we, the following named inventors:

- 1. Tatsuya SHOUJI, residing in Tokyo, Japan;
- 2. Shuho KOSEKI, residing in Tokyo, Japan;
- 3. Kenichi INOUE, residing in Tokyo, Japan;
- 4. Katsuhiro OBATA, residing in Tokyo, Japan;
- 5. Satoshi MURAKAMI, residing in Tokyo, Japan;
- 6. Naoki HAYASHI, residing in Aichi, Japan;
- 7. Yoshikazu SUZUKI, residing in Aichi, Japan;
- 8. Toshifumi MIYAMOTO, residing in Aichi, Japan;
- 9. Toru OTOMO, residing in Aichi, Japan;
- 10. Nobuhiro IKEDA, residing in Nara, Japan;
- 11. Kousuke UDA, residing in Nara, Japan; and
- 12. Takashi OGISU, residing in Aichi, Japan,

have invented an invention entitled METHOD FOR MANUFACTURING FORGED ARTICLE, for which we have executed an application for Letters Patent of the United States (check one):

() on the date we executed this assign	ment;		
(x) as U.S. Patent Application No.	17/056,746	, filed November	18, 2020 ;
() as International Application No.		, filed	

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, HITACHI METALS, LTD., TOYOTA JIDOSHA KABUSHIKI KAISHA, DAIDO CHEMICAL CO., LTD., and UMETOKU CO., LTD. ("Assignees"), all Japanese organizations, HITACHI METALS, LTD. having its principal place of business at 2-70, Konan 1-chome, Minato-ku, Tokyo 1088224, Japan, TOYOTA JIDOSHA KABUSHIKI KAISHA having its principal place of business at 1, Toyota-cho, Toyota-shi, Aichi 4718571, Japan, DAIDO CHEMICAL CO., LTD., having its principal place of business at 2-2-1400, Umeda 1-chome, Kita-ku, Osaka-shi, Osaka 5300001, Japan, and UMETOKU CO., LTD having its principal place of business at 3-7, Chayamachi, Kita-ku, Osaka-shi, Osaka 5308377, Japan, wherein HITACHI METALS, LTD. is desirous of acquiring a 40% interest, TOYOTA JIDOSHA KABUSHIKI KAISHA is desirous of acquiring a 40% interest, DAIDO CHEMICAL CO., LTD. is desirous of acquiring a 10% interest, collectively representing the entire interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we, the above named inventors, have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto Assignees, 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.

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 our entire right, title and interest in and to the same, for the sole use of the Assignees, their successors and assigns.

Page 1 of 2 - ASSIGNMENT - Docket No. HIB20316PCTUS; Client Ref: HTK19002PUS

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, we have hereunto set our hands on the dates indicated below.

1.	Inventor Name: <u>Tatsuya SHOUJI</u>				
	Signature: Tatsuxa SHOUJI	Date:	December 1	1,	2020
2.	Inventor Name: Shuho KOSEKI				
	Signature: Shuho Koseki	Date:	December 1	1,	2020
3.	Inventor Name: Kenichi INOUE				
	Signature: Kenikhi INOUE	Date:	December 1	1,	2020
4.	Inventor Name: Katsuhiro OBATA				
	Signature: <u>Katsuhivo OBATA</u>	Date:	December 1	1,	2020
5.	Inventor Name: Satoshi MURAKAMI				
	Signature: Satosh; MURAKAMI	Date:	December 1	1,	2020
6.	Inventor Name: Naoki HAYASHI				
	Signature:	Date:			
7.	Inventor Name: Yoshikazu SUZUKI				
	Signature:	Date:	NY-000400		
8.	Inventor Name: Toshifumi MIYAMOTO				
	Signature:	Date:		******	
9.	Inventor Name: Toru OTOMO				
	Signature:	Date:			***************************************
10.	Inventor Name: Nobuhiro IKEDA				
	Signature:	_Date:			
11.	Inventor Name: Kousuke UDA				
	Signature:	Date:			
12.	Inventor Name: Takashi OGISU				
	Signature:	Date:			

Page 2 of 2 - ASSIGNMENT - Docket No. HIB20316PCTUS; Client Ref: HTK19002PUS

WHEREAS, we, the following named inventors:

- 1. Tatsuya SHOUJI, residing in Tokyo, Japan;
- 2. Shuho KOSEKI, residing in Tokyo, Japan;
- 3. Kenichi INOUE, residing in Tokyo, Japan;
- 4. Katsuhiro OBATA, residing in Tokyo, Japan;
- 5. Satoshi MURAKAMI, residing in Tokyo, Japan;
- 6. Naoki HAYASHI, residing in Aichi, Japan;
- 7. Yoshikazu SUZUKI, residing in Aichi, Japan;
- 8. Toshifumi MIYAMOTO, residing in Aichi, Japan;
- 9. Toru OTOMO, residing in Aichi, Japan;
- 10. Nobuhiro IKEDA, residing in Nara, Japan;
- 11. Kousuke UDA, residing in Nara, Japan; and
- 12. Takashi OGISU, residing in Aichi, Japan,

have invented an invention entitled METHOD FOR MANUFACTURING FORGED ARTICLE, for which we have executed an application for Letters Patent of the United States (check one):

() on the date we executed this assi			
(X) as U.S. Patent Application No.	17/056,746	filed November 18, 2020	
() as International Application No.		, filed	. ;

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, HITACHI METALS, LTD., TOYOTA JIDOSHA KABUSHIKI KAISHA, DAIDO CHEMICAL CO., LTD., and UMETOKU CO., LTD. ("Assignees"), all Japanese organizations, HITACHI METALS, LTD. having its principal place of business at 2-70, Konan 1-chome, Minato-ku, Tokyo 1088224, Japan, TOYOTA JIDOSHA KABUSHIKI KAISHA having its principal place of business at 1, Toyota-cho, Toyota-shi, Aichi 4718571, Japan, DAIDO CHEMICAL CO., LTD., having its principal place of business at 2-2-1400, Umeda 1-chome, Kita-ku, Osaka-shi, Osaka 5300001, Japan, and UMETOKU CO., LTD having its principal place of business at 3-7, Chayamachi, Kita-ku, Osaka-shi, Osaka 5308377, Japan, wherein HITACHI METALS, LTD. is desirous of acquiring a 40% interest, TOYOTA JIDOSHA KABUSHIKI KAISHA is desirous of acquiring a 40% interest, DAIDO CHEMICAL CO., LTD. is desirous of acquiring a 10% interest, collectively representing the entire interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we, the above named inventors, have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto Assignees, 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.

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 our entire right, title and interest in and to the same, for the sole use of the Assignees, their successors and assigns.

Page 1 of 2 - ASSIGNMENT - Docket No. HIB20316PCTUS; Client Ref: HTK19002PUS

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, we have hereunto set our hands on the dates indicated below.

1,	inventor name: <u>Tatsuya SHOUJI</u>		
	Signature:	Date:	
2.	Inventor Name: Shuho KOSEKI		
	Signature:	Date:	37A*266A*
3.	Inventor Name: Kenichi INOUE		
	Signature:	Date:	
4.	Inventor Name: Katsuhiro OBATA		
	Signature:	Date:	
5.	Inventor Name: Satoshi MURAKAMI		
	Signature:	Date:	
6.	Inventor Name: Naoki HAYASHI		
	Signature: Mark Hayashi	Date:	December 11, 2020
7.	Inventor Name: Yoshikazu SUZUKI		
	Signature: Yoshikazu Juzuki	Date:	December 11, 2020
8.	Inventor Name: Toshifumi MIYAMOTO		
	Signature: Toshifumi Hiyamoto	Date:	December 11, 2020
9.	Inventor Name: Toru OTOMO		
	Signature: Toru Otomo	Date:	December 11, 2020
10.	Inventor Name: Nobuhiro IKEDA		
	Signature:	Date:	AND
11.	Inventor Name: Kousuke UDA		
	Signature:	Date:	
12.	Inventor Name: Takashi OGISU		
	Signature:	Date:	MANUAL TO THE PARTY OF THE PART

Page 2 of 2 - ASSIGNMENT - Docket No. HIB20316PCTUS; Client Ref: HTK19002PUS

WHEREAS, we, the following named inventors:

- 1. Tatsuya SHOUJI, residing in Tokyo, Japan;
- 2. Shuho KOSEKI, residing in Tokyo, Japan;
- 3. Kenichi INOUE, residing in Tokyo, Japan;
- 4. Katsuhiro OBATA, residing in Tokyo, Japan;
- 5. Satoshi MURAKAMI, residing in Tokyo, Japan;
- 6. Naoki HAYASHI, residing in Aichi, Japan;
- 7. Yoshikazu SUZUKI, residing in Aichi, Japan;
- 8. Toshifumi MIYAMOTO, residing in Aichi, Japan;
- 9. Toru OTOMO, residing in Aichi, Japan;
- 10. Nobuhiro IKEDA, residing in Nara, Japan;
- 11. Kousuke UDA, residing in Nara, Japan; and
- 12. Takashi OGISU, residing in Aichi, Japan,

have invented an invention entitled METHOD FOR MANUFACTURING FORGED ARTICLE, for which we have executed an application for Letters Patent of the United States (check one):

() on the date we executed this assignment;				
(x) as U.S. Patent Application No.	17/056,746	, filed	November 18, 2020	
() as International Application No		, filed		. :

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, HITACHI METALS, LTD., TOYOTA JIDOSHA KABUSHIKI KAISHA, DAIDO CHEMICAL CO., LTD., and UMETOKU CO., LTD. ("Assignees"), all Japanese organizations, HITACHI METALS, LTD. having its principal place of business at 2-70, Konan 1-chome, Minato-ku, Tokyo 1088224, Japan, TOYOTA JIDOSHA KABUSHIKI KAISHA having its principal place of business at 1, Toyota-cho, Toyota-shi, Aichi 4718571, Japan, DAIDO CHEMICAL CO., LTD., having its principal place of business at 2-2-1400, Umeda 1-chome, Kita-ku, Osaka-shi, Osaka 5300001, Japan, and UMETOKU CO., LTD having its principal place of business at 3-7, Chayamachi, Kita-ku, Osaka-shi, Osaka 5308377, Japan, wherein HITACHI METALS, LTD. is desirous of acquiring a 40% interest, TOYOTA JIDOSHA KABUSHIKI KAISHA is desirous of acquiring a 40% interest, DAIDO CHEMICAL CO., LTD. is desirous of acquiring a 10% interest, collectively representing the entire interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we, the above named inventors, have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto Assignees, 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.

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 our entire right, title and interest in and to the same, for the sole use of the Assignees, their successors and assigns.

Page 1 of 2 - ASSIGNMENT - Docket No. HIB20316PCTUS; Client Ref: HTK.19002PUS

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, we have hereunto set our hands on the dates indicated below.

1.	Inventor Name: Tatsuya SHOUJI		
	Signature:	Date:	NATE AND A VICTOR OF THE PROPERTY OF THE PROPE
2.	Inventor Name: Shuho KOSEKI		
	Signature:	_ Date:	2041-2-1-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2
3.	Inventor Name: Kenichi INOUE		
	Signature:	_ Date:	
4.	Inventor Name: Katsuhiro OBATA		
	Signature:	_ Date:	
5.	Inventor Name: Satoshi MURAKAMI		
	Signature:	_Date:	
5.	Inventor Name: Naoki HAYASHI		
	Signature:	_ Date:	
7.	Inventor Name: Yoshikazu SUZUKI		
	Signature:	_ Date:	
3.	Inventor Name: <u>Toshifumi MIYAMOTO</u>		
	Signature:	_Date:	
9.	Inventor Name: Toru OTOMO		
	Signature:	_Date:	
10.	Inventor Name: Nobuhiro IKEDA		
	Signature: 地国人特洛	_Date:	December 11, 2020
11.	Inventor Name: Kousuke UDA		
	Signature: FOFT F	_Date:	December 11, 2020
12.	Inventor Name: Takashi OGISU		
	Signature:	_ Date:	

Page 2 of 2 – ASSIGNMENT – Docket No. HIB20316PCTUS; Client Ref: HTK19002PUS

WHEREAS, we, the following named inventors:

- 1. Tatsuya SHOUJI, residing in Tokyo, Japan;
- 2. Shuho KOSEKI, residing in Tokyo, Japan;
- 3. Kenichi INOUE, residing in Tokyo, Japan;
- Katsuhiro OBATA, residing in Tokyo, Japan;
- 5. Satoshi MURAKAMI, residing in Tokyo, Japan;
- 6. Naoki HAYASHI, residing in Aichi, Japan;
- 7. Yoshikazu SUZUKI, residing in Aichi, Japan;
- 8. Toshifumi MIYAMOTO, residing in Aichi, Japan;
- 9. Toru OTOMO, residing in Aichi, Japan;
- 10. Nobubiro IKEDA, residing in Nara, Japan;
- 11. Kousuke UDA, residing in Nara, Japan; and
- 12. Takashi OGISU, residing in Aichi, Japan,

have invented an invention entitled METHOD FOR MANUFACTURING FORGED ARTICLE, for which we have executed an application for Letters Patent of the United States (check one):

() on the date we executed this assignm	nent;		
(x) as U.S. Patent Application No	17/056,746	, filed November	18, 2020 ;
(.) as International Application No.		, filed	,

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, HITACHI METALS, LTD., TOYOTA JIDOSHA KABUSHIKI KAISHA, DAIDO CHEMICAL CO., LTD., and UMETOKU CO., LTD. ("Assignees"), all Japanese organizations, HITACHI METALS, LTD. having its principal place of business at 2-70, Konan 1-chome, Minato-ku, Tokyo 1088224, Japan, TOYOTA JIDOSHA KABUSHIKI KAISHA having its principal place of business at 1, Toyota-cho, Toyota-shi, Aichi 4718571, Japan, DAIDO CHEMICAL CO., LTD., having its principal place of business at 2-2-1400, Umeda 1-chome, Kita-ku, Osaka-shi, Osaka 5300001, Japan, and UMETOKU CO., LTD having its principal place of business at 3-7, Chayamachi, Kita-ku, Osaka-shi, Osaka 5308377, Japan, wherein HITACHI METALS, LTD. is desirous of acquiring a 40% interest, TOYOTA JIDOSHA KABUSHIKI KAISHA is desirous of acquiring a 40% interest, DAIDO CHEMICAL CO., LTD. is desirous of acquiring a 10% interest, collectively representing the entire interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we, the above named inventors, have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto Assignees, 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.

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 our entire right, title and interest in and to the same, for the sole use of the Assignees, their successors and assigns.

Page 1 of 2 - ASSIGNMENT - Docket No. HIB20316PCTUS; Client Ref. HTK19002PUS

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, we have hereunto set our hands on the dates indicated below.

1.	Inventor Name: <u>Tatsuya SHOUJI</u>			
	Signature:	Date:		
2.	Inventor Name: Shuho KOSEKI			
	Signature:	Date:		
3.	Inventor Name: Kenichi INOUE			
	Signature:	Date:		
4.	Inventor Name: Katsuhiro OBATA			
	Signature:	Date:	nazenegane annyegnegen y	мажелия с потпилател с па поег
5.	Inventor Name: Satoshi MURAKAMI			
	Signature:	Date:		
6.	Inventor Name: Naoki HAYASHI			
	Signature:	Date:		
7.	Inventor Name: Yoshikazu SUZUKI			
	Signature:	Date:		
8.	Inventor Name: Toshifumi MIYAMOTO			
	Signature:	Date:		
9.	Inventor Name: Toru OTOMO			
	Signature:	Date:		**************************************
10.	Inventor Name: Nobuhiro IKEDA			
	Signature:	Date:		
11.	Inventor Name: Kousuke UDA			
	Signature:	Date:		
12.	Inventor Name: <u>Takashi OGISU</u>			
	Signature: Yakagh! Ogane	Date: Decem	ber 11,	2020

Page 2 of 2 - ASSIGNMENT - Docket No. HIB20316PCTUS; Client Ref. HTK19002PUS

RECORDED: 01/20/2021