#### 504838349 03/27/2018

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4885086

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
MOTOHITO HORI	01/15/2018
YUKI INABA	01/19/2018
YOSHINARI IKEDA	01/15/2018
TETSUYA SUNAGO	02/15/2018
MICHIHIRO INABA	02/15/2018

#### RECEIVING PARTY DATA

Name:	FUJI ELECTRIC CO., LTD.
Street Address:	1-1 TANABESHINDEN, KAWASAKI-KU
City:	KAWASAKI-SHI, KANAGAWA
State/Country:	JAPAN
Postal Code:	210-9530
Name:	KOJIN CO., LTD.
Street Address:	5 MORIJIRI, KAMIICHI-MACHI
City:	NAKANIIKAWA-GUN, TOYAMA
State/Country:	JAPAN

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15934256

### **CORRESPONDENCE DATA**

**Fax Number:** (202)434-1501

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: 202-434-1500

DPelkey@s-n-h.com Email:

**Correspondent Name:** STAAS AND HALSEY LLP 1201 NEW YORK AVE NW Address Line 1:

Address Line 2: 7TH FLOOR

Address Line 4: WASHINGTON, D.C. 20176

> **PATENT** REEL: 045359 FRAME: 0951

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ATTORNEY DOCKET NUMBER:	2482.1048
NAME OF SUBMITTER:	DAVID M. PITCHER REG NO. 25,908
SIGNATURE:	/David M. Pitcher/
DATE SIGNED:	03/27/2018
Total Attachments: 3 source=Assignment as filed#page1.	tif

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> PATENT REEL: 045359 FRAME: 0952

### U.S. ASSIGNMENT

Docket No.

S&H 100

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by

(Insert Name(s) & Address(es) of ASSIGNEE(S))

#### FUJI ELECTRIC CO., LTD.

1-1, Tanabeshinden, Kawasaki-ku, Kawasaki-shi, Kanagawa 210-9530 JAPAN

#### KOJIN Co., Ltd.

(a) executed on \_\_\_\_

(b) filed on \_\_\_\_\_

Serial No.: \_\_\_\_

5 Morijiri, Kamiichi-machi, Nakaniikawa-gun, Toyama 930-0304 Japan

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled (Title of Invention)

# SEMICONDUCTOR DEVICE, METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICE, AND INTERFACE UNIT

relating to International Patent Application and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(Insert date of execution of application, if not concurrent)

Any registered attorney of STAAS & HALSEY LLP, 1201 New York

Avenue, N.W., Suite 700 Washington, D.C. 20005 (202/434-1500) is hereby authorized to insert in (b) the specified data, when known.

substitute, reissue or reexamination application base	United States granted on said application and any continuation, division, renewal, of thereon, for the full term or terms for which the said Letters Patent(s) may be tively, hereinafter, "said application(s) and Letters Patent(s)").
to do all acts which the ASSIGNEE may deem necess said invention, including in the preparation and prose interference, reissue, reexamination, or public use pr	I by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, sary, desirable or expedient, for securing, maintaining and enforcing protection for ecution of said application(s) and the issuance of said Letters Patent(s), in any roceeding, and in any litigation or other legal proceeding which may arise or be thot be limited to executing all papers, including separate assignments and in testimony, and obtaining and producing evidence.
IN WITNESS WHEREOF, the undersigned invent (Typed Name & Signature of Inventor(s))	(Date)
1) Motofilo Hori (Motohito HORI)	January 2018
2)(Yuki !NABA)	
	January 15 240
4)(Tetsuya SUNAGO)	
5)(Michihiro INABA)	

## U.S. ASSIGNMENT

Docket No.

5500 5300

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by

(Insert Name(s) & Address(es) of ASSIGNEE(S))

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(a) executed on	(insert date of execution of application, if not concurrent)
(b) filed on	Any registered attorney of STAAS & HALSEY LOP, 1201 New York
ما المام	Avenue, N.W., Suite 700 Washington, D.C. 20005 (202/434-1500) is
Serial No.:	hereby authorized to insert in (b) the specified data, when known.
	\$2.5

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in application or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declared in relations, taking all rightful paths, providing swom testimony, and obtaining and producing evidence.

	IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s). (Typed Name & Signature of Inventor(s)) (Date)
1)	
:-	(Motonito HORI)
23	96. Inda In. 19. 218
	(Yuki INABA)
3)	
	(Yoshinari IKEDA)
4)	
-7-	(Tetsuya SUNAGO)
5)	
	(Michibiro INABA)

### U.S. ASSIGNMENT

Docket No.

S&H 1/00

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by

(Insert Name(s) & Address(es) of ASSIGNEE(S))

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KOJIN Co., Ltd.

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	(Insert date of execution of application, if not concurrent)
(b) filed on	Any registered attorney of STAAS & HALSEY LLP, 1201 New York
Serial No.:	Avenue, N.W., Suite 700 Washington, D.C. 20005 (202/434-1500) is hereby authorized to insert in (b) the specified data, when known.
substitute, reissue or reexamination applic	nt(s) of the United States granted on said application and any continuation, division, renewa ation based thereon, for the full term or terms for which the said Letters Patent(s) may be sof (collectively, hereins/far, "said application(s) and Letters Patent(s)").
to do all acts which the ASSIGNEE may de	requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEI em necessary, desirable or expedient, for securing, maintaining and enforcing protection for and prosecution of said application(s) and the issuance of said Letters Patent(s), in any
interference, reissue, reexamination, or pu declared in relation to same, such acts to it	blic use proceeding, and in any litigation or other legal proceeding which may arise or be notude but not be limited to executing all papers, including separate assignments and
declarations, taking all rightful oaths, provid	ding sworn testimony, and obtaining and producing evidence.
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(Typed Name & Signature of Inventor)	ned inventor(s) has (have) affixed his/her/their signature(s) (s)) (Date)
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(Typed Name & Signature of Inventor(	(Date)
(Typed Name & Signature of Inventor(	(Bate)
(Typed Name & Signature of Inventor(  1) (Motohito HORI)	(Date)
(Typed Name & Signature of Inventor(  1) (Motohito HORI)	(Date)
(Typed Name & Signature of Inventor(  1) (Motohito HORI)  2)	(S) (Date)
(Typed Name & Signature of Inventor(  1) (Motohito HORI)  2) (Yuki INABA)	(Date)
(Typed Name & Signature of Inventor(  1) (Motohito HORI)  2) (Yuki INABA)	(S) (Date)
(Typed Name & Signature of Inventor(  1) (Motohito HORI)  2) (Yuki INABA)  3)	(S)) (Date)
(Typed Name & Signature of Inventor(  1) (Motohito HORI)  2) (Yuki INABA)  3)	(Date)  Auto (Net an instruction of the control of

PATENT REEL: 045359 FRAME: 0955

**RECORDED: 03/27/2018**