PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

NEW ASSIGNMENT

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HIROKI KONDO	03/17/2017
MAKOTO KAMBE	03/07/2017
SHOTA SATO	03/07/2017
YUKITO AOYAMA	03/07/2017
HISASHI TAKEMOTO	03/08/2017

RECEIVING PARTY DATA

Name:	YAZAKI CORPORATION
Street Address:	4-28, MITA 1-CHOME, MINATO-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	108-8333

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15470014

CORRESPONDENCE DATA

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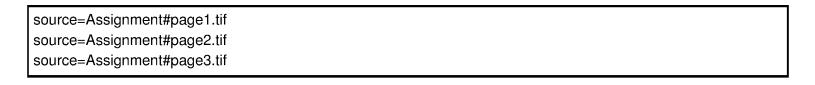
Address Line 4: WASHINGTON, D.C. 20007

ATTORNEY DOCKET NUMBER:	5046-0102
NAME OF SUBMITTER:	AJIT J. VAIDYA
SIGNATURE:	/ajit j. vaidya/
DATE SIGNED:	03/27/2017
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Total Attachments: 3

PATENT REEL: 041752 FRAME: 0295

EPAS ID: PAT4338075



PATENT REEL: 041752 FRAME: 0296

U.S. ASSIGNMENT

inventor(s) (hereins	ATION of the sum of One Dollar after, "ASSIGNOR") by address(es) of ASSIGNEE(S))	(\$1.00), and of other good and valuable of	onsideration paid to the undersigned
Yazaki Cor			
	1-chome, Minato-ku, Tok	yo 108-8333 Japan	
ASSIGNEE the entir (Title of Invention)	SNEE"), the receipt of which is her e and exclusive right, title and inte	reby acknowledged, the undersigned ASSIGNO rest to the invention entitled	OR hereby sells, assigns and transfers to
	g years		
	nal Patent Application PCT/JP		Letters Patent of the United States was
executed on even dat	e herewith or, if not so executed, w	vas:	
(a) executed on		; (Insert date of execution of applic	ution, if not concurrent)
•	000000000000000000000000000000000000000		
(b) filed on	March 27,201	· 1	
Serial No.	5 470,014		authorized to insert in (b) the specified
substitute, reissue or including any extens	reexamination application based the ions thereof (collectively, hereinaft	United States granted on said application and an erecon, for the full term or terms for which the ster, "said application(s) and Letters Patent(s)")	aid Letters Patent(s) may be granted and
which the ASSIGNE including in the prep reexamination, or put acts to include but no	E may deem necessary, desirable of aration and prosecution of said app blic use proceeding, and in any litig	ASSIGNEE and without charge to but at the export expedient, for securing, maintaining and enfolication(s) and the issuance of said Letters Pattation or other legal proceeding which may arists, including separate assignments and declaration.	orcing protection for said invention, ent(s), in any interference, reissue, e or be declared in relation to same, such
	, -	r(s) has (have) affixed his/her/their signature(s).
<i>i</i> ~	thi Idordo		March 17, 2017
1)		Hiroki KONDO	
	(Signature)	(Type Name)	(Date)
2)	(Signature)	Makoto KAMBE (Type Name)	(Date)
2)	(1.2	Shota SATO	(,
3)	(Signature)	(Type Name)	(Date)
4)		Yukito AOYAMA	
57 (ALLEGER)	(Signature)	(Type Name)	(Date)
5)		Hisashi TAKEMOTO	
	(Signature)	(Type Name)	(Date)
6)	(Signature)	/Rosa Maria	/D.m.)
	(signature)	(Type Name)	(Date)

PATENT REEL: 041752 FRAME: 0297

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dolla inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S))	r (\$1.00), and of other good and valuable	consideration paid to the undersigned
Yazaki Corporation		
4-28, Mita 1-chome, Minato-ku, To	kyo 108-8333 Japan	
(hereinafter, "ASSIGNEE"), the receipt of which is be ASSIGNEE the entire and exclusive right, title and interface of Invention)		NOR hereby sells, assigns and transfers to
PRINTED CIRCUIT BODY		
relating to International Patent Application PCT/JP executed on even date herewith or, if not so executed,	Mary consesses and the second	for Letters Patent of the United States was
(a) executed on	; (Insert date of execution of app	lication, if not concurrent)
(b) filed on March 27,20/ Serial No. 15 / 470 / 014	Assignee's attorney is hereid data, when known.	by authorized to insert in (h) the specified
and to said application and all Letters Patent(s) of the substitute, reissue or reexamination application based t including any extensions thereof (collectively, hereina	thereon, for the full term or terms for which the	e said Letters Patent(s) may be granted and
The ASSIGNOR agree(s), when requested by said which the ASSIGNEE may deem necessary, desirable including in the preparation and prosecution of said agreexamination, or public use proceeding, and in any lit acts to include but not be limited to executing all pape sworn testimony, and obtaining and producing eviden	or expedient, for securing, maintaining and e oplication(s) and the issuance of said Letters F igation or other legal proceeding which may a ers, including separate assignments and declar	nforcing protection for said invention, 'atent(s), in any interference, reissue, rise or be declared in relation to same, such
IN WITNESS WHEREOF, the undersigned invent	or(s) has (have) affixed his/her/their signature	r(s).
1)	Hiroki KONDO	
(Signature)	(Type Name)	(Date)
2) Makoto Kamile (Signature)	Makoto KAMBE (Type Name)	March 7, 2017 (Date)
Chas	Shota SATO	March 7, 2017
(Signature)	(Type Name)	(Date)
4) Yukito Agrama	Yukito AOYAMA	March 7.2017
(Signature)	(Type Name)	(Date)
5)	Hisashi TAKEMOTO	
(Signature)	(Туре Name)	(Date)
6) (Signature)	(Type Name)	(Date)

PATENT REEL: 041752 FRAME: 0298

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dolla inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S))	r (\$1.00), and of other good and valuable (consideration paid to the undersigned
Yazaki Corporation		
4-28, Mita 1-chome, Minato-ku, To	kyo 108-8333 Japan	
(hereinafter, "ASSIGNEE"), the receipt of which is he ASSIGNEE the entire and exclusive right, title and int (Title of Invention) PRINTED CIRCUIT BODY	ereby acknowledged, the undersigned ASSIGN erest to the invention entitled	iOR hereby sells, assigns and transfers to
relating to International Patent Application PCT/JP_executed on even date herewith or, if not so executed,	/ and/or for which application for was:	or Letters Patent of the United States was
(a) executed on	; (Insert date of execution of appl	ication, if not concurrent)
(b) filed on March 27,201 Serial No. 15 / 470, 015	Assignee's attorney is hereby data, when known.	y authorized to insert in (b) the specified
and to said application and all Letters Patent(s) of the substitute, reissue or reexamination application based tincluding any extensions thereof (collectively, hereina The ASSIGNOR agree(s), when requested by said which the ASSIGNEE may deem necessary, desirable including in the preparation and prosecution of said agrees.	thereon, for the full term or terms for which the ifter, "said application(s) and Letters Patent(s)" ASSIGNEE and without charge to but at the e or expedient, for securing, maintaining and er	said Letters Patent(s) may be granted and '). xpense of said ASSIGNEE, to do all acts aforcing protection for said investion,
reexamination, or public use proceeding, and in any liti acts to include but not be limited to executing all pape sworn testimony, and obtaining and producing eviden	igation or other legal proceeding which may ar as, including separate assignments and declara	ise or be declared in relation to same, such
IN WITNESS WHEREOF, the undersigned invent		· · · · · · · · · · · · · · · · · · ·
1)(Signature)	Hiroki KONDO (Type Name)	(Date)
	Makoto KAMBE	(Duite)
2) (Signature)	(Type Name)	(Date)
3)	Shota SATO	, ,
(Signature)	(Type Name)	(Date)
4)	Yukito AOYAMA	
(Signature)	(Type Name)	(Date)
5) Hisashi Takemoto	Hisashi TAKEMOTO	March 8, 2011
· (Signature)	(Type Name)	(Date)
6) (Signature)	(Type Name)	(Date)

PATENT REEL: 041752 FRAME: 0299

RECORDED: 03/27/2017