# 504217214 02/07/2017

## PATENT ASSIGNMENT COVER SHEET

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CONVEYING PARTY	DATA						
		N	ame	Execution Date			
HIRONORI KOTERA				12/26/2016			
RECEIVING PARTY	ΔΑΤΑ						
I			LECTRIC CORPORATION				
			UCHI 2-CHOME, CHIYODA-KU				
City:	ΤΟΚΥΟ						
State/Country: JAPAN							
Postal Code:	100-831	100-8310					
PROPERTY NUMBER	RS Total: 1						
Property Typ	e		Number				
Application Number:	1	55021	49				
CORRESPONDENCE	DATA						
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	l be sent to	the e-l	mail address first; if that is unsucce				
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Correspondence will using a fax number,	l be sent to ; if provided; (7	the e-l if tha 703) 20	mail address first; if that is unsucce t is unsuccessful, it will be sent via	US Mail.			
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Correspondence will using a fax number, Phone: Email: Correspondent Name Address Line 1: Address Line 4: ATTORNEY DOCKET NAME OF SUBMITTER SIGNATURE: DATE SIGNED: Total Attachments: 3	l be sent to a if provided; (1 e: B P F NUMBER: R: R: ecAssignmer	the e-i if that 703) 2 nailroo BIRCH, 2.O. BC FALLS 1 1 4 0 1 2 0	mail address first; if that is unsuccest is unsuccessful, it will be sent via 05-8000 m@bskb.com, anh-vu.dao@bskb.com, STEWART, KOLASCH & BIRCH, LL DX 747 CHURCH, VIRGINIA 22040-0747 163-1264PUS1 NH-VU DAO anh-vu dao/ 2/07/2017 3-1264PUS1#page1.tif	<b>US Mail.</b>			

Application No. 15/502,149 filed on February 6, 2017

Attorney Docket No. (代理人整理書号): 1163-1264PUS1

		BIRCH, STEWART, K P.O. Box 747 • Falls C Telephone: (703) 205-8000 • Facsimile: ( 電話: (703) 205-8000 • ファックス: (703)	hurch, Virg (705) 205-80	via 2204 • Email	0-0747 : mailroom@bskb.com	
]	Dı	CLARATION AND ASSIGNMENT FO United States Patent Rights, or Unit			3	
特許および意匠出願の宣言書ならびに譲渡証 *園特許権または米園およびその他の外園特許権						
発明の名称	\$		Title of Invention			
		以下に記名された発明者として、私は以下の通り室 言します:		As a bel	ow named inventor, I hereby declare that:	
		本宣誓は本状に添付した出顧審を対象としていま す。		This de hereto,	claration is directed to the application attached	
添付していな い出 <b>感答</b>	\$	出題書が本状に添付されていない場合は、上紀の出 	Application not Attached	idemifie	plication is not attached hereto, the application is as d by the attorney docket number as set forth above the following:	
添付していな い出版書	\$	米国出職番号もしくは PCT(特許協力条約)国際出職 番号	Enter Appln. No.		States Application Number or PCT International No. PCT/JP2014/071368	
出験日を記入	\$	出級日	Enter Filing Date	filed on	August 13, 2014	
		上記の出機器は私が作成、もしくは承認しました。		The abo be made	ve-identified application was made or authorized to by me.	
		私は、本出類で読求している発明について、私が最 初かつ唯一の発明者、もしくは最初かつ共同発明者 であると強信しています。			that I am the original inventor or an original joint of a claimed invention in the application.	
		私は、特許請求の範囲を含み、上記の出願書を検討 し、内容を理解しています。			eviewed and understand the contents of the above- d application, including the claims.	
		私は、連邦規則法典第 37 編第 1 条 66 項に定義され ている、特許性の有無について重要な情報を開示す る義務があることを認めます。		material	wledge the duty to disclose information which is to patentability as defined in Title 37, Code of Regulations § 1.56.	
		署名人は特定出類に記載された新規かつ有用な改良 を発明しました。			AS, the undersigned has invented certain new and nprovements described in the application identified.	
新渡人氏名を 第入	\$	は	Insert Name of Assignce	WHERE	445, Mitsubishi Electric Corporation	
38受人住所を 記入	*	に資産し、	Insert Address of Assignes	of 7-3, Tokyc	. Marunouchi 2-chome, Chiyoda-ku, ) 100-8310 Japan,	
		譲受人の継承人、後継者、法定代理人、および被譲 譲者(以下譲受人という)は当該発明のすべての権 利、所有権、利益ならびにアメリカ合衆国において 岡務明に付与された特許証をすべて取得することを 希望しています。		(horeina acquirin inventio	s. successors, legal representatives and assigns fler designated as the Assignse) is desirous of g the entire right, title and interest in and to said n and in and to any Letters Fatent(s) that may be therefor in the United States of America and	
該当する場合 はポックスを チェック	4	その他の外談における特許証取得希望。	Check Box if Appropriate	🗌 in a	ny foreign countries.	
従って、有様 名人は充却、 合衆国ならび 排他的権利ま いて、さらに 国において、 類、変更出導	第二は に 第二 きん 第二	記のボックスに指定がある場合は、その他すべての外 発明、ならびにその分割出額、再発行出額、継続出 延長出題に付与された特許証の漢期にわたる、もしく れた期間にわたるすべての権利、所有権、利益を売	which is he transferred, said Assigne States of Ar entire right, may be gra- dependencie and all for	by ackno d by the he full at rica, its ls and in ch therefund poss gn count conversion	or good and valuable consideration, the receipt of wledged, the undersigned has sold, assigned and se presents does (do) sell, assign and transfer unto nd exclusive right to the said invention in the United territories, dependencies and possessions and the terest in and to any and all Letters Fatent(s) which or in the United States of America, its territories, essions, and if the hox above is designated, in any tries; and to any and all divisions, reissues, nus and extensions thereof for the full term or terms be granted.	

BINCH, STEWART, KOLASCH & BIRCH, LLP

BSKB-DEC-ASSIGN(09-12)

#### Application No. 15/502,149 filed on February 6, 2017

#### Altorney Docket No. (代理人整理委号): 1163-1264PUS1

署名人は本願、ならびにその継続出題、分割出願、変更出願、再発行 出題、延長出願に関連するすべての審判を履行することに同意し、醸 受人が必要もしくは適切とみなす、これらの出題に関連して別途譲渡 総を現行することにも同意します。

署名人は本願、もしくはその継続出顔、分割出願、変変出麗、再発行 出願。または特許証、それに基づく再発行特許に関連して寛含される 経触に関する必要なすべての書類を履行することに同意し、従握の取 得、およびそのような抵触業件を進めるにあたり、あらゆる面におい て前記譲受人に協力することに同意します。

署名人はすべての用紙および零類を離行し、工業所有権保護条約の請 求や規定、もしくは類似協定に関して必要なあらゆる行為を試行する ことに両意します。

署名人は有効な未限特許ならびに外限の特許の承認を取得し、本状で 約記録受人に譲渡した同特許のすべての様利を完全かっ全面的に付与 して、本譲渡および売却が行われていなければ、署名人が保持してい たのと词様にするために必要なすべての積極的な行為を履行すること に同意します。

署名人は米国ならびに外国の特許部際庁長官に前記出題、またはその 総統出題、分類出題、変要出題、再発行出題から発生したすべての特 許証を、すべての利益の競受人としての前記録受人に対して発行する ことを承認かつ請求し、本状で鑑波するすべての権利を譲るためのす べての権利を有し、対立関係にある偽定を過去において進行したこと がなく、将来において履行しないことを契約します。

署名人は、米国特許庁の規定に従うために必要であれば、さらに確認 事項を記入する権利を Birch、Stewart, Kolasch & Birch, LLF 法律 事務所に付与します。

署名人は、本額液に対立する類淡、充垣、契約、債務が務結されたことがなく、今後締結されることがないとここに接約します。

署名人は、本寛曽で放設に成偽の表明を行うと、米国法典第 18 線第 1001 条に基づき、罰会または 5 年以下の拘禁、もしくはその両方の 処罰対象になることをここに認識します。

以上の証として、第名人氏名欄の隣の目付をもって署名人が署名しま す。

出版データシート(PTO/SB/14 もしくは周等のもの)に発明企業の名称を含み、本状を添える必要があります。各発明者に付き傷別の周紙 を使用するか、下記のボックスをチェックして添付ページに記入し、 遠知の発明者をリストしてください。 The undersigned agrees to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignce may deem necessary or expedient.

The undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letters Fatent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agrees to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agrees to perform all affirmative acts which may be necessary to obtain a grant of (a) valid United States of America patent(s) or a grant of (a) valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorizes and requests the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patent(s) resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignize, as Assignee of the entire interest, and hereby covenants that he has the full right to convey the entire interest harvin assigned, and that he has not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grants the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

The undersigned hereby covenants that no assignment, sale, agreement or encambrance has been or will be made or entered into which would conflict with this assignment.

The undersigned hereby acknowledges that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

In witness whereof, executed by the undersigned on the date opposite the undersigned name.

An application data sheet (PTO/5B/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use a separate form for each inventor; or check the box below and complete the attached page(s) to list additional inventors.

STATEMENT OF ACCURATE TRANSLATION IN ACCORDANCE WITH 37 C.F.R. § 1.69(b):

The DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS is an accurate translation of the corresponding English language DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS.

BTULO (D) Signature:

Date: 9/25/2012

BERCH, STEWART, KOLASCH & BIRCH, LLP

Page 2 of 3

BSKB-DEC-ASSIGN(09-12)

PATENT REEL: 041196 FRAME: 0752

### Application No. 15/502,149 filed on February 6, 2017

Attorney Docket No. (代理人整理書号): 1163-1264PUS1

	LEGAL NAME OF INVENTOR 発明者氏名	
Inventor's Name 条明者近名	Inventor: Hironori KOTERA 発明者:	Date: 日付: December 26, 2016
laventor's Signature 致影者豪华	Signature: Armoni Kotera	
	LEGAL NAME OF JOINT INVENTOR, IF ANY 共同発明者がいる場合の氏名	
lnventor's Name 杂消教氏名	Inventor: 冤明者:	Data: 日付:
Inventor's Signature 我明者著名	Signature: 書名:	
	LEGAL NAME OF JOINT INVENTOR, IF ANY 共同発明者がいる場合の氏名	
inventor's Name 発射者氏名	Inventor: 発明者:	Date: 日付:
inventor's Signature 亲明者著名	Signature: 豪华:	
	LEGAL NAME OF JOINT INVENTOR, IF ANY 共同発明者がいる場合の氏名	
lavenita's Name 杂销委任条	Invenior: 张明者:	Date: 日付:
inventor's Signature 张彤老鼋老	Signature: %Æ:	
	LEGAL NAME OF JOINT INVENTOR, IF ANY 共同発明者がいる場合の氏名	
inventor's Name 來躬者氏名	Inventor: 影明者:	Date: 日付:
inventor's Signature 発明容繁系	Signature: 署名:	
	LEGAL NAME OF JOINT INVENTOR, IF ANY 共同発明者がいる場合の氏名	
Inventor's Name 秦羽孝氏会	Inventor: 条明者:	Date: 日付:
inventor's Signature <sub>中</sub> ※附者祭名	Signature: 署名:	
	LEGAL NAME OF JOINT INVENTOR, IF ANY 共同発明者がいる場合の氏名	
diventor's Name 🧄 👳 RBTLA	Inventor: 発明者:	Date: 日付:
bweiter's Signature 👳 LATAX	Signature: 餐卷:	
	LEGAL NAME OF JOINT INVENTOR, IF ANY 共同発明者がいる場合の氏名	
inventor's Name 亲男者氏名	Inventor: 系则者:	Date: 日付:
inventar's Signature 發弱咨署名	Signature: 餐多:	

BIRCH, STEWART, KOLASCH & BIRCH, LLP

Page 3 of 3

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PATENT REEL: 041196 FRAME: 0753

**RECORDED: 02/07/2017**