Form <b>PTO-1595</b> (Rev. 03-11) OMB No. 0851-0027 (exp. 03/31/2015)	U.S. DEPARTMENT OF COMMERCE United States Pa <u>tent and Trademark Office</u>
RECORDATION FOR	
PATENTS	ONLY
To the Director of the U.S. Patent and Trademark Office: Please	record the attached documents or the new address(es) below.
Name of conveying party(les):	2. Name and address of receiving party(les)
Hidemi Orito (08/22/2012), Masayuki Ohno (08/22/2012), Sadaharu Nishida (08/22/2012),	Name: Iwasaki Electric Co., Ltd.
Sachio Noguchi (08/22/2012), Additional name(s) of conveying party(les) attached? X Yes No	Internal Address: Street Address:
3. Nature of conveyance/Execution Date(s):	1-4-16, Nihonbashi-bakurocho, Chuo-ku
Execution Date(s): In parentheses after inventor name	Tokyo 103-0002
X Assignment Merger Change of Name	JAPAN
Security Agreement Joint Research Agreement	City:
Government Interest Assignment	State:
Executive Order 9424, Confirmatory License	Country: Zip:
Other	Additional name(s) & address(es) Yes X No attached?
A. PatentiApplication No.(s) 13/978,223 Additional numbers attached?	B. Patent No.(s)
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
Name: Andrew T. Zidel LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
Internal Address: Atty. Dkt.: PEGAS 3.3-005	
Street Address: 600 South Avenue West	Authorized to be charged to deposit account
	Enclosed
	None required (government interest not affecting title)
City: Westfield	8. Payment Information
State: NJ Zip: 07090	
Phone Number: 908-654-5000	10.4005
Fax Number: 908-654-7866 Email Address: mcormier@ldlkm.com	Deposit Account Number 12-1095 Authorized User Name Andrew T. Zidel
9. Signature:	
	July 8, 2013
Signature	Date
Andrew T. Zidel - 45,256	Total number of pages including cover
Name of Person Signing	sheet, attachments, and documents:

3217090

PATENT REEL: 030795 FRAME: 0799

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		N FORM COVER SHEET (PTO-1595) (supplemental sheet)	
Additional Conveyi	ng Party(ies)/Exe	cution Date(s) (1. Continued):	
Kazuki Kanomata (08/2	22/2012), and Kenji l	Jbukata (08/22/2012)	
Additional Assigne	es (2. Continued)	Y.	
Assignee Name:	-		
Internal Address:			
Street Addréss:			
City:	State:	Country:	Zip:
Assignee Name:	-	· · · · · · · · · · · · · · · · · · ·	
Internal Address:			
Street Address:			
City:	State:	Country:	Zlp:
Assignee Name:			
Internal Address:			
Street Address:			
City:	State:	Country:	Zlp:
Additional Applicat	ions and/or Pater	nts (4. Continued):	3,000
Additional Patent Application 4A. Continued:	n Numbers	Additional Patent Numbers 4B. Continued:	
	Additional numbe	ers attached? Yes No	

2

Docket No.: PEGAS 3.3-005

REEL: 030795 FRAME: 0800

	Docket Number (Optional)
ASSIGNMENT OF UTILITY APPLICATION	PEGAS 3.3-005
Whereas, I, Hidemi Orito c/o Iwasaki Electric Co., Ltd.; 1-4-16, Nihonbashi-bakuro	of
hereafter referred to as assignor, have with others invented cert	
METAL HALIDE LAMP  x for which an application for a United States Letters Pat Application Number 13/978,223	
for which an application for a United States Letters Pater	
x for which an International Application was filed on	
PCT/JP2012/050001 , designating the United And	d States.
Whereas,   Iwasaki Electric Co., Ltd. a corporation of <u>Japan</u> herein referred to as "assignee" whose m	ailing address is
1-4-16, Nihonbashi-bakurocho, Chuo-ku; Tokyo; 1030002;	JAPAN
is desirous of acquiring the entire right, title and interest in the s	dollar (\$ 1.00 ), the receipt whereof
NOW, THEREFORE, In consideration of the sum of one is acknowledged, and other good and valuable consideration, assignee my entire right, title and interest for the United Statinvention and the aforesaid utility patent application and all applications land patents applied for or granted therefor in the said invention, including without limitation all applications and the aforesaid utility application pursuant to any law or treaty, a infringement with the right to sue for and collect the same for illegal representatives, and including the right to claim such pri Trademarks is hereby authorized and requested to issue all p said assignee herein, as assignee of the entire interest representatives, heirs and assigns do hereby agree and covere all original, divisional, continuation, reissue and other applicates assignments thereof to said assignee or its assigns, to commit known to the undersigned respecting said improvements, where legal proceedings in which any of said applications or patents all rightful oaths, and to do generally everything necessary to obtain patent protection for said improvements in all countries, and paid by said assignee.  And I do hereby authorize my attorneys to insert on this deed the	I as assignor hereby sell, assign and set over to said tes of America and all other countries in and to sald original, divisional, continuation, substitute or reissue United States of America and all other countries, for patents for said invention claiming priority or benefit of and including all claims for damages by reason of past its own use and the use of its successors, assigns and iority or benefit and the Commissioner of Patents and atents on said improvements or resulting therefrom to therein; and the undersigned for me and my legal and without further remuneration, to execute and deliver tions for Letters Patent on said improvements and all unicate to said assignee or its representatives all facts never requested, to testify in any interferences or other may become involved, to sign all lawful papers, make ald assignee, its successors, assigns and nominees to the expenses incident to said applications to be borne
when known.	
Aug. 22, 20/2	Hidemi Orito
Date	Hidemi Orito
<u>Souichirvu Horikoshi</u> Witness	
Souichirou Worikoshi Souichirou Horikoshi Typed Name of Witness	
x *Total of 6 forms are submitted.	

former PTO/SB/15 (8-00) Modified LDLK&M

	Docket Number (Optional)
ASSIGNMENT OF UTILITY APPLICATION	PEGAS 3.3-005
Whereas, I, Masayuki Ohno	of
c/o lwasaki Electric Co., Ltd.; 1-4-16, Nihonbashi-bakur	ocho, Chuo-ku; Tokyo; 1030002; JAPAN
hereafter referred to as assignor, have with others invented cer	tain new and useful improvements in
METAL HALIDE LAMP	
Tor which an application for a United States Letters Pa Application Number 13/978,223	stent was filed onJuly 3, 2013
for which an application for a United States Letters Pate	ant was executed by me on
x for which an International Application was filed on	- ·
PC T/JP2012/050001 , designating the Unite	d States.
And	
Whereas, <u>I Iwasaki Electric Co., Ltd.</u> a corporation of <u>Japan</u> herein referred to as "assignee" whose n	nailing address is
1-4-16, Nihonbashi-bakurocho, Chuo-ku; Tokyo; 1030002;	-
is desirous of acquiring the entire right, title and interest in the	same;
NOW, THEREFORE, In consideration of the sum of one is acknowledged, and other good and valuable consideration, assignee my entire right, title and interest for the United Stainvention and the aforesaid utility patent application and all applications land patents applied for or granted therefor in the said invention, including without limitation all applications and the aforesaid utility application pursuant to any law or treaty, infringement with the right to sue for and collect the same for legal representatives, and including the right to claim such pit Trademarks its hereby authorized and requested to issue all psaid assignée herein, as assignée of the entire interest representatives, heirs and assigns do hereby agree and covernall original, divisional, continuation, reissue and other applicationally divisional, continuation, reissue and other applications to the undersigned respecting said improvements, whe legal proceedings in which any of said applications or patents all rightful oaths, and to do generally everything necessary to obtain patent protection for said improvements in all countries and paid by said assignee.	ates of America and all other countries in and to said original, divisional, continuation, substitute or reissue a United States of America and all other countries, for patents for said invention claiming priority or benefit of and including all claims for damages by reason of past its own use and the use of its successors, assigns and priority or benefit and the Commissioner of Patents and patents on said improvements or resulting therefrom to therein; and the undersigned for me and my legal ant without further remuneration, to execute and deliver ations for Letters Patent on said improvements and all nunlcate to said assignee or its representatives all facts mever requested, to testify in any interferences or other amy become involved, to sign all lawful papers, make aid assignee, its successors, assigns and nominees to, the expenses incident to said applications to be borne
And I do hereby authorize my attorneys to insert on this deed t when known.	
Aug. 22.2012 P	lasayuki Ohno
Date	Masayuki Ohno
Aug. 12. 2012  Date  Souichirou Horikoshi  Witness  Souichirou Horikoshi  Typed Name of Witness	
x *Total of 6 forms are submitted.	

LD-515\

PATENT

REEL: 030795 FRAME: 0802

ASSIGNMENT OF UTILITY APPLICATION PEGAS 3.3-005	pegas 3.3-005  of nonbashi-bakurocho, Chuo-ku; Tokyo: 1030002; JAPAN ers invented certain new and useful improvements in states Letters Patent was filed on July 3, 2013  ates Letters Patent was executed by me on on was filed on January 2, 2012 , as ating the United States.  signee" whose mailing address is Tokyo: 1030002; JAPAN d interest in the same; and all other countries in and to said electron and all original, divisional, continuation, substitute or reissue of the United States of America and all other countries in and to said electron and all original, divisional, continuation, substitute or reissue of the same for its own use and the use of its successors, assigns and original coloring priority or benefit and the Commissioner of Patents and original patents on said improvements or resulting therefrom to entire interest therein; and the undersigned for me and my legal gree and covenant without further remuneration, to execute and deliver dother applications for Letters Patent on said improvements and all signs, to communicate to said assignee or its representatives all facts rovements, whenever requested, to testify in any interferences or other tions or patents may become involved, to sign all lawful papers, make g necessary to ald assignee, its successors, assigns and nominees to	Whereas, I, Sadaharu Nishida of  c/o lwaṣaki Electric Co., Ltd.; 1-4-16, Nihonbashi-bakurocho, Chuo-ku; Tokyo; 1030002; JAPAN  hereafter referred to as assignor, have with others invented certain new and useful improvements in  METAL HALIDE LAMP  To for which an application for a United States Letters Patent was filed on July 3, 2013  Application Number 13/978, 223  for which an application for a United States Letters Patent was executed by me on  To for which an International Application was filed on January 2, 2012  as  PCT/JP2012/050001  Adesignating the United States.  And  Whereas,   wasaki Electric Co., Ltd. a corporation of Japan herein referred to as "assignee" whose mailing address is  1-4-16, Nihonbashi-bakurocho, Chuo-ku; Tokyo; 1030002; JAPAN  is desirous of acquiring the entire right, title and interest in the same;	Whereas, I, Sadaharu Nishida	Whereas, I, Sadaharu Nishida		former PTO/SB/15 (8-00) Modified LDLK&M
PEGAS 3.3-005	of nonbashi-bakurocho, Chuo-ku; Tokyo; 1030002; JAPAN ers invented certain new and useful improvements in states Letters Patent was filed on	Whereas, I, Sadaharu Nishida of Iwaşaki Electric Co., Ltd.; 1-4-16, Nihonbashi-bakurocho, Chuo-ku; Tokyo; 1030002; JAPAN hereafter referred to as assignor, have with others invented certain new and useful improvements in METAL HALIDE LAMP    X   for which an application for a United States Letters Patent was filed on July 3, 2013	Whereas, I, Sadaharu Nishida of Incomplete the states of Incomplete Incomplete the states of Incomplete Inc	Whereas, I, Sadaharu Nishida of Local Masaki Electric Co., Ltd.: 1-4-16. Nihonbashi-bakurocho, Chuo-ku; Tokvo; 1030002; JAPAN hereafter referred to as assignor, have with others invented certain new and useful improvements in METAL HALIDE LAMP    X   for which an application for a United States Letters Patent was filed on July 3, 2013	ACCIONISTATION INVADELIGATION	Docket Number (Optional)
Whereas, I, :_Sadaharu Nishida	ronbashi-bakurocho, Chuo-ku; Tokyo; 1030002; JAPAN ers invented certain new and useful improvements in  tates Letters Patent was filed on	hereafter referred to as assignor, have with others invented certain new and useful improvements in  METAL HALIDE LAMP   ■ for which an application for a United States Letters Patent was filed on	c/o Iwasaki Electric Co., Ltd.: 1-4-16, Nihonbashi-bakurocho, Chuo-ku; Tokyo; 1030002; JAPAN hereafter referred to as assignor, have with others invented certain new and useful improvements in  METAL HALIDE LAMP  If or which an application for a United States Letters Patent was filed on July 3, 2013 Application Number 13/978, 223 for which an application for a United States Letters Patent was executed by me on  If or which an International Application was filed on January 2, 2012  And  PCT/JP2012/050001  And  Whereas, Iwasaki Electric Co., Ltd. a corporation of Japan herein referred to as "assignee" whose mailing address is  1-4-16, Nihonbashi-bakurocho, Chuo-ku; Tokyo: 1030002; JAPAN is desirous of acquiring the entire right, title and interest in the same;  NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility apent application and all original, divisional, continuitor, substitute or reissue applications and patents application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments itherefor	e/o Iwasaki Electric Co., Ltd.: 1-4-16, Nihonbashi-bakurocho, Chuo-ku; Tokyo; 1030002; JAPAN hereafter referred to as assignor, have with others invented certain new and useful improvements in  METAL HALIDE LAMP  ▼ for which an application for a United States Letters Patent was filed on July 3, 2013  Application Number 13/978, 223  for which an application for a United States Letters Patent was executed by me on  ▼ for which an International Application was filed on January 2, 2012 , as  PCT/JP2012/050001 , designating the United States.  And  Whereas, Iwasaki Electric Co., Ltd. a corporation of Japan herein referred to as "assignee" whose mailing address is  1-4-16, Nihonbashi-bakurocho, Chuo-ku; Tokyo: 1030002; JAPAN is desirous of acquiring the entire right, title and interest in the same;  NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility application and all original, divisional, continuins, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention clalming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringementiwith the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the use of its successor	ASSIGNMENT OF UTILITY APPLICATION	PEGAS 3.3-005
hereafter referred to as assignor, have with others invented certain new and useful improvements in METAL HALIDE LAMP		Aug. 22. 20/2 Sadaharu Nishida	Saudilialu Nishiud		Whereas, I, Sadaharu Nishida  co Iwaşaki Electric Co., Ltd.: 1-4-16, Nihonbashi-bakuro hereafter referred to as assignor, have with others invented certa  METAL HALIDE LAMP  if or which an application for a United States Letters Pater Application Number 13/978, 223  for which an application for a United States Letters Pater if or which an International Application was filed on  PCT/JP2012/050001 , designating the United And  Whereas, Iwasaki Electric Co., Ltd. a corporation of Japan herein referred to as "assignee" whose ma 1-4-16, Nihonbashi-bakurocho, Chuo-ku; Tokyo; 1030002; Jis desirous of acquiring the entire right, title and interest in the sa NOW, THEREFORE, in consideration of the sum of one is acknowledged, and other good and valuable consideration, I assignee my entire right, title and interest for the United State invention and the aforesaid utility patent application and all of applications and patents applied for or granted therefor in the said invention, including without limitation all applications and patents application pursuant to any law or treaty, ar infringement with the right to sue for and collect the same for its legal representatives, and including the right to claim such pric Trademarks is hereby authorized and requested to issue all pasal assignee herein, as assignee of the entire interest trepresentatives, heirs and assigns do hereby agree and covenar all original, divisional, continuation, reissue and other application sor patents representatives, heirs and assignse or its assigns, to communknown to the undersigned respecting said improvements, whene legal proceedings in which any of said applications or patents rail rightful oaths, and to do generally everything necessary to all obtain patent protection for said Improvements in all countries, the and paid by said assignee.  And I do hereby authorize my attorneys to insert on this deed the when known	Docket Number (Optional) PEGAS 3.3-005  of tocho, Chuo-ku; Tokyo; 1030002; JAPAN ain new and useful improvements in  ent was filed on
	Sadahan Wishida Sadaharu Nishida i	Souichirou Horikoshi Souichirou Horikoshi Typed Name of Witness	Souichirou Horikoshi Souichirou Horikoshi Typed Name of Witness			
Date Sadaharu Nishida  Souichirou Aforikoshi Witness  Souichirou Horikoshi Typed Name of Witness	Sadahan Wishida Sadaharu Nishida i	Souichirou Horikoshi Souichirou Horikoshi Typed Name of Witness	Souichirou Aforthoshi Witness <u>Souichirou Horikoshi</u> Typed Name of Witness		x *Total of 6 forms are submitted.	
Date Sadaharu Nishida  Souichirou Horikoshi  Souichirou Horikoshi  Typed Name of Witness	Sadaharu Nishida			X *Total of 6 forms are submitted.	LD-515\	

PATENT REEL: 030795 FRAME: 0803

	former PTO/SB/15 (8-00) Modified LDLK&M
ACCIONMENT OF LITTLETY ARRESTATION	Docket Number (Optional)
ASSIGNMENT OF UTILITY APPLICATION	PEGAS 3.3-005
Whereas, I, Sachio Noguchi	of
c/o Iwasaki Electric Co., Ltd.; 1-4-16, Nihonbashi-bakuro	ocho, Chuo-ku; Tokyo; 1030002; JAPAN
hereafter referred to as assignor, have with others invented cert	
METAL HALIDE LAMP	•
X for which an application for a United States Letters Pat	ent was filed on July 3, 2013
Application Number 13/978,223	Bit W23 Mod Off
for which an application for a United States Letters Pate	nt was executed by me on
x for which an International Application was filed on	
PCT/JP2012/050001 , designating the United	d States.
And	
Whereas,   Iwasaki Electric Co., Ltd.	
a corporation of Japan herein referred to as "assignee" whose m	
1-4-16, Nihonbashi-bakurocho, Chuo-ku; Tokyo; 1030002;	
is desirous of acquiring the entire right, title and interest in the s	anie,
is acknowledged, and other good and valuable consideration, assignee my entire right, title and interest for the United Statinvention and the aforesald utility patent application and all applications and patents applied for or granted therefor in the said invention, including without limitation all applications and the aforesaid utility application pursuant to any law or treaty, a infringement with the right to sue for and collect the same for legal representatives, and including the right to claim such pri Trademarks is hereby authorized and requested to issue all prisaid assignée herein, as assignee of the entire interest is representatives, heirs and assigns do hereby agree and covers all original, divisional, continuation, relesue and other applicat assignments thereof to said assignee or its assigns, to communication to the undersigned respecting said improvements, wher legal proceedings in which any of said applications or patents all rightful oaths, and to do generally everything necessary to a obtain patent protection for said improvements in all countries, and paid by said assignee.	tes of America and all other countries in and to said original, divisional, continuation, substitute or reiscue. United States of America and all other countries, for patents for sald invention claiming priority or benefit of and including all claims for damages by reason of past to sown use and the use of its successors, assigns and ority or benefit and the Commissioner of Patents and atents on said improvements or resulting therefrom to therein; and the undersigned for me and my legal ant without further remuneration, to execute and deliverable to said assignee or its representatives all facts never requested, to testify in any interferences or other may become involved, to sign all lawful papers, make aid assignee, its successors, assigns and nominees to the expenses incident to said applications to be borne
And I do hereby authorize my attorneys to insert on this deed the when known.	ne filing date and application number of said application
Aug. 22. 2012	Sachio Noguchi
Date	Sachio Noguchi
S <u>ouichirou Horikoshi</u> Witness <u>Souichirou Horikoshi</u> Typed Name of Witness	
ryped Name of Witness	
x *Total of 6 forms are submitted.	
LD-515\	

PATENT REEL: 030795 FRAME: 0804

former PTO/SB/15 (8-00) Modified LDLK&M

	Docket Number (Optional)
ASSIGNMENT OF UTILITY APPLICATION	PEGAS 3.3-005
Whereas, I, Kazuki Kanomata	of
c/o lwasaki Electric Co., Ltd.; 1-4-16, Nihonbashi-bakuro	ocho, Chuo-ku; Tokyo; 1030002; JAPAN
hereafter referred to as assignor, have with others invented cert	ain new and useful improvements in
METAL HALIDE LAMP	
Tor which an application for a United States Letters Pat	ent was filed onJuly 3, 2013
Application Number 13/978,223	
for which an application for a United States Letters Pate	nt was executed by me on,
x for which an International Application was filed on	January 2, 2012 , as
PCT/JP2012/050001 , designating the United	l States.
And	
Whereas, Iwasaki Electric Co., Ltd.	
a corporation of Japan herein referred to as "assignee" whose m	nailing address is
1-4-16, Nihonbashi-bakurocho, Chuo-ku; Tokyo; 1030002;	JAPAN
Is desirous of acquiring the entire right, title and interest in the s	ame;
NOW, THEREFORE, in consideration of the sum of one is acknowledged, and other good and valuable consideration, assignee my entire right, title and interest for the United Statinvention and the aforesaid utility patent application and all applications land patents applied for or granted therefor in the said invention, including without limitation all applications and pithe aforesaid utility application pursuant to any law or treaty, a infringement with the right to sue for and collect the same for it legal representatives, and including the right to claim such pri Trademarks iis hereby authorized and requested to issue all psaid assignee herein, as assignee of the entire interest representatives, helrs and assigns do hereby agree and covers all original, divisional, continuation, reissue and other applicat assignments thereof to said assignee or its assigns, to community to the undersigned respecting said improvements, where legal proceedings in which any of sald applications or patents all rightful oaths, and to do generally everything necessary to a obtain patent protection for said improvements in all countries, and paid by said assignee.	tes of America and all other countries in and to said original, divisional, continuation, substitute or reissue. United States of America and all other countries, for patents for said invention claiming priority or benefit of and including all claims for damages by reason of past is own use and the use of its successors, assigns and ority or benefit and the Commissioner of Patents and atents on said improvements or resulting therefrom to herein; and the undersigned for me and my legal into without further remuneration, to execute and deliverable for Latters Patent on said improvements and all incicate to said assignee or its representatives all facts never requested, to testify in any interferences or other may become involved, to sign all lawful papers, make aid assignee, its successors, assigns and nominees to the expenses incident to said applications to be borne
And I do hereby authorize my attorneys to insert on this deed the when known.	
Aug. 22. 2012 K	azuki Kanomata
Date	Kazuki Kanomata
Aug. 22. 2012 K  Date  Souichirou Horikoshi  Typed Name of Witness	
i gradi i milita di viti dididi	

LD-515\

x \*Total of 6 forms are submitted.

1	former PTO/SB/15 (8-00) Modified LOLK&M
ACCIONMENT OF UTU ITY ADDI (CATION	Docket Number (Optional)
ASSIGNMENT OF UTILITY APPLICATION	PEGAS 3.3-005
Whereas, I, Kenji Ubukata  c/o Iwasaki Electric Co., Ltd.: 1-4-16, Nihonbashi-bakuro hereafter referred to as assignor, have with others invented cert  METAL HALIDE LAMP  Tor which an application for a United States Letters Pate Application Number 13/978, 223  for which an application for a United States Letters Pate  x for which an International Application was filed on	of ocho, Chuo-ku; Tokyo; 1030002; JAPAN ain new and useful improvements in ent was filed on July 3, 2013
PC T/JP2012/050001 , designating the United	d States.
And	
Whereas,   Iwasaki Electric Co., Ltd.   a corporation of <u>Japan</u> herein referred to as "assignee" whose m	allina addinas is
1-4-16, Nihonbashi-bakurocho, Chuo-ku; Tokyo; 1030002;	
is desirous of acquiring the entire right, title and interest in the s	· · · · · · · · · · · · · · · · · · ·
NOW, THEREFORE, In consideration of the sum of one is acknowledged, and other good and valuable consideration, assignee my entire right, title and interest for the United Star Invention and the aforesaid utility patent application and all applications and patents applied for or granted therefor in the sald invention, Including without limitation all applications and it he aforesaid utility application pursuant to any law or treaty, a infringement with the right to sue for and collect the same for it legal representatives, and including the right to claim such pri Trademarks is hereby authorized and requested to issue all p said assignee herein, as assignee of the entire interest it representatives, heirs and assigns do hereby agree and covene all original, divisional, continuation, reissue and other applicat assignments thereof to said assignee or its assigns, to communication to the undersigned respecting said improvements, where legal proceedings in which any of said applications or patents all rightful oaths, and to do generally everything necessary to a obtain patent protection for said improvements in all countries, and paid by said assignee.	tes of America and all other countries in and to said original, divisional, continuation, substitute or reissue. United States of America and all other countries, for patents for said invention claiming priority or benefit of and including all claims for damages by reason of past to own use and the use of its successors, assigns and ority or benefit and the Commissioner of Patents and atents on said improvements or resulting therefrom to therein; and the undersigned for me and my legal ant without further remuneration, to execute and delivertions for Letters Patent on said improvements and all unicate to said assignee or its representatives all facts hever requested, to testify in any interferences or other may become involved, to sign all lawful papers, make aid assignee, its successors, assigns and nominees to the expenses incident to said applications to be borne
And I do hereby authorize my attorneys to insert on this deed the when known.	
Aug 22 2012 K	endi Ubakta
∪ate	Kenji Ubukata
Date  Spuichirou Horikoshi Souichirou Horikoshi Typed Name of Witness	
x *Total of 6 forms are submitted.	
I,D-515\	

PATENT REEL: 030795 FRAME: 0806

**RECORDED: 07/08/2013**