

12-22-05

12-27-2005

FORM PTO-1595 (Modified)
(Rev. 03-01)
OMB No. 0651-0027 (exp. 5/31/2002)
P08A/REV03

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To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
IWANE, Noriyasu
WATANABE, Yuichi
SUGIMURA, Takezo
SATO, Toshiyuki

Additional names(s) of conveying party(ies) Yes No

2. Name and address of receiving party(ies):
Name: **The Furukawa Electric Co., Ltd.**
Address: **6-1, Marunouchi, 2-chome, Chiyoda-ku**

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: **September 29, 2005**

City: **Tokyo** State/Prov.: _____
Country: **Japan** ZIP: **100-8322**

Additional name(s) & address(es) Yes No

4. Application number(s) or patent numbers(s):
If this document is being filed together with a new application, the execution date of the application is _____

Patent Application No.	Filing date	B. Patent No.(s)
10/552,674		

Additional numbers Yes No

6. Total number of applications and patents involved: **1**

7. Total fee (37 CFR 3.41):.....\$ **40.00**

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FINANCIAL SECTION

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: **Ken I. Yoshida**
Registration No. **37,009**
Address: **Knoble Yoshida & Dunleavy, LLC**
Eight Penn Center, Suite 1350
1628 John F. Kennedy Boulevard
City: **Philadelphia** State/Prov.: **PA**
Country: **USA** ZIP: **19103**

6. Total number of applications and patents involved: **1**

7. Total fee (37 CFR 3.41):.....\$ **40.00**

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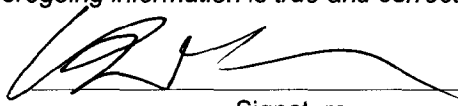
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9. Statement and signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Ken I. Yoshida  **December 19, 2005**
Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and document: **5**

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Mail documents to be recorded with required cover sheet information to:
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PATENT
REEL: 017384 FRAME: 0543

RECORDATION FORM COVER SHEET
CONTINUATION PAGE

Continuation of Box 1.

KIMURA, Atsushi
IWAHANA, Fumikazu
INANIWA, Katsumi
KANOU, Tetsuya

ASSIGNMENT

WHEREAS, we, **Noriyasu IWANE, Yuichi WATANABE, Takezo SUGIMURA, Toshiyuki SATOH, Atsushi KIMURA, Fumikazu IWAHANA, Katsumi INANIWA and Tetsuya KANO**, hereinafter referred to as the assignors, residing in Tokyo, Japan are the inventor of certain inventions or improvements for which we have made application for Letters Patent to the United States of America ("United States") by designating the United States in International Patent Application no. PCT/JP2004/009749, identified as **Attorney Docket No. KAWA-1003** entitled **METHOD AND APPARATUS FOR CALCULATING CHARGED RATE, AND A BATTERY SYSTEM;** and

WHEREAS, **THE FURUKAWA ELECTRIC CO., LTD.**, hereinafter referred to as the assignee, of 6-1, Marunouchi, 2-chome, Chiyoda-ku, Tokyo, 100-8322, Japan, a corporation of **Japan**, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements for the United States and said United States patent application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names applications for Letters Patent in the United States, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time a request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and we agree to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing and reissue applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in the United States.

AND we hereby authorize and request the Director of Patents and Trademarks of the United States to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

IN WITNESS WHEREOF, we have hereunto set our hand and seal.

Dated: September 29, 2005 *Noriyasu Iwane* (L. S.)
Noriyasu IWANE

Dated: September 29, 2005 *Yuichi Watanabe* (L. S.)
Yuichi WATANABE

Dated: September 29, 2005 *Takezo Sugimura* (L. S.)
Takezo SUGIMURA

Dated: September 29, 2005 *Toshiyuki Satoh* (L. S.)
Toshiyuki SATOH

Dated: September 29, 2005 Atsushi Kimura (L. S.)
Atsushi KIMURA

Dated: September 29, 2005 Fumikazu Iwahana (L. S.)
Fumikazu IWAHANA

Dated: September 29, 2005 Katsumi Inaniwa (L. S.)
Katsumi INANIWA

Dated: September 29, 2005 Tetsuya Kanou (L. S.)
Tetsuya KANOU

ASSIGNMENT

WHEREAS, we, **Noriyasu IWANE, Yuichi WATANABE, Takezo SUGIMURA, Toshiyuki SATOH, Atsushi KIMURA, Fumikazu IWAHANA, Katsumi INANIWA and Tetsuya KANO**, hereinafter referred to as the assignors, residing in Tokyo, Japan are the inventor of certain inventions or improvements for which we have made application for Letters Patent to the United States of America ("United States") by designating the United States in International Patent Application no. PCT/JP2004/009749, identified as **Attorney Docket No. KAWA-1003** entitled **METHOD AND APPARATUS FOR CALCULATING CHARGED RATE, AND A BATTERY SYSTEM;** and

WHEREAS, **THE FURUKAWA ELECTRIC CO., LTD.**, hereinafter referred to as the assignee, of 6-1, Marunouchi, 2-chome, Chiyoda-ku, Tokyo, 100-8322, Japan, a corporation of **Japan**, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements for the United States and said United States patent application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names applications for Letters Patent in the United States, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time a request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and we agree to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing and reissue applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in the United States.

AND we hereby authorize and request the Director of Patents and Trademarks of the United States to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

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Takezo SUGIMURA

Dated: September 29, 2005 *Toshiyuki Satoh* (L. S.)
Toshiyuki SATOH

Dated: September 29, 2005 Atsushi Kimura (L. S.)
Atsushi KIMURA

Dated: September 29, 2005 Fumikazu Iwahana (L. S.)
Fumikazu IWAHANA

Dated: September 29, 2005 Katsumi Inaniwa (L. S.)
Katsumi INANIWA

Dated: September 29, 2005 Tetsuya Kanou (L. S.)
Tetsuya KANO