| FORM PTO-1595 (modified)                                                                                                                                                                                                               | 08 - 14 - 2001 U.S. DEPARTMENT OF COMMERCE                                                                                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (Rev 6-93) <b>RE</b> (                                                                                                                                                                                                                 | SHEET Patent and Trademark Office                                                                                                                                                                                                                                                                        |
| To the Director of the United States I                                                                                                                                                                                                 | 101811314ached original documents or copies thereof.                                                                                                                                                                                                                                                     |
| 1. Name of conveying party(ies): 8/3                                                                                                                                                                                                   | 2. Name and address of receiving party(ies):                                                                                                                                                                                                                                                             |
| Naoki AYAI<br>Jun FUJIKAMI<br>Shinichi KOBAYASHI                                                                                                                                                                                       | SUMITOMO ELECTRIC INDUSTRIES, LTD. 5-33, Kitahama 4-chome, Chuo-ku Osaka-shi, Osaka, JAPAN                                                                                                                                                                                                               |
| Additional conveying party(ies) attached? <b>NO</b>                                                                                                                                                                                    | 50 <b>3</b>                                                                                                                                                                                                                                                                                              |
| 3. Nature of conveyance:  ASSIGNMENT                                                                                                                                                                                                   | 09/920947                                                                                                                                                                                                                                                                                                |
| Execution Date:  July 12, 2001                                                                                                                                                                                                         | Additional name(s) & address(es) attached?                                                                                                                                                                                                                                                               |
| 4. Application number(s) or patent number(s):                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                          |
| If this is being filed together with a new applica                                                                                                                                                                                     | ion, the execution date of the application is:  July 12, 2001                                                                                                                                                                                                                                            |
| A. Patent Application Number(s):                                                                                                                                                                                                       | B. Patent Number(s):                                                                                                                                                                                                                                                                                     |
| 5. Name and address of party to whom correspond                                                                                                                                                                                        | Additional numbers attached? NO                                                                                                                                                                                                                                                                          |
| concerning document should be mailed:                                                                                                                                                                                                  | 0. Total number of applications/patents involved.                                                                                                                                                                                                                                                        |
| David A. Blumenthal                                                                                                                                                                                                                    | 7. Total fee (37 C.F.R. § 3.41): \$40.00                                                                                                                                                                                                                                                                 |
| FOLEY & LARDNER                                                                                                                                                                                                                        | X Check Enclosed                                                                                                                                                                                                                                                                                         |
| Washington Harbour<br>3000 K Street, N.W., Suite 500                                                                                                                                                                                   | Charge to deposit account                                                                                                                                                                                                                                                                                |
| Washington, D.C. 20007-5109                                                                                                                                                                                                            | 8. Deposit account number: 19-0741                                                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                        | DO NOT USE THIS SPACE                                                                                                                                                                                                                                                                                    |
| 9. Statement and signature:  To the best of my knowledge and belief, to original document. The Commissioner is hereby to matter to the above-identified deposit account.  Accord (Lastence David A. Blumenthal  Name of person signing | e foregoing information is true and correct and any attached copy is a true copy of the athorized to charge any additional recordation fees which may be required in this    August 3, 2001     Signature   August 3, 2001     Total number of pages including cover sheet, attachments, and document: 3 |
| FC:581 40.00 GP                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                          |

002.618136.1

PATENT REEL: 012057 FRAME: 0421

| United | States | Patent Rights, or              |
|--------|--------|--------------------------------|
| United | States | plus All Foreign Patent Rights |

| ATTORNEY DOCKET NO. |  |
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## **ASSIGNMENT**

|                                            | Application No                                                                              |                                         |                |                   |                                       | Filed                 |                                           |
|--------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------|----------------|-------------------|---------------------------------------|-----------------------|-------------------------------------------|
| Insert Name(s)                             | → WHEREAS,                                                                                  | Tetsuyuk                                | i KANEKO,      | Naoki AYAI        | , Jun FUJI                            | KAMI,                 | and                                       |
| of Inventor(s)                             | Shinichi K                                                                                  | OBAYASHI                                | J              |                   | 7.74                                  |                       |                                           |
|                                            |                                                                                             |                                         |                |                   |                                       |                       |                                           |
|                                            |                                                                                             |                                         |                |                   |                                       |                       |                                           |
| •                                          |                                                                                             |                                         |                |                   |                                       |                       |                                           |
|                                            | (hereinafter designated                                                                     | d as the undersig                       | gned) has (hav | e) invented certa | in new and use                        | ful impro             | vements in                                |
| nsert Title<br>of Invention                | ■ METHOD OF                                                                                 | PREPARING (                             | OXIDE SUP      | ERCONDUCTIN       | G WIRE                                |                       |                                           |
|                                            |                                                                                             |                                         |                |                   |                                       |                       | -                                         |
|                                            | for which an application                                                                    | on for Letters Par                      | tent of the Un | ted States of Am  | erica has been                        | executed l            | by the undersigned                        |
| nsert Date<br>of Signing of<br>Application | → onJuly 1                                                                                  | 2, 2001                                 |                |                   |                                       |                       | ; and                                     |
| nsert Name<br>of Assignee                  | <b>➡</b> WHEREAS,                                                                           | Sumitom                                 | o Electri      | c Industri        | es, Ltd.                              |                       |                                           |
|                                            | ·                                                                                           |                                         |                |                   | · · · · · · · · · · · · · · · · · · · | <del></del>           |                                           |
|                                            |                                                                                             |                                         |                |                   |                                       |                       | · · · · · · · · · · · · · · · · · · ·     |
| nsert Address<br>of Assignee               | → of5-33, Kitah                                                                             | nama 4-chom                             | e, Chuo-k      | u, Osaka-sl       | ni, Osaka,                            | Japan                 |                                           |
| CHECK BOX<br>FAPPROPRIATE                  | its heirs, successors, le acquiring the entire re may be granted there  in any and all fore | right, title and ir<br>for in the Unite | iterest in and | to said inventio  | designated as t                       | he Assign<br>any Lett | nee) is desirous of<br>ers Patent(s) that |
|                                            | NOW, THEREF paid, the receipt of wh                                                         |                                         |                |                   |                                       |                       | lersigned in hand<br>, the undersigned    |

paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for which the same may be granted.

PATENT

REEL: 012057 FRAME: 0422

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof or Letters Patent(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 agree(s) 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 agree(s) 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 authorize(s) the request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of FOLEY & LARDNER the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

| Date               | July 12. 200/  | Name of Inventor | Tetsuyak: Kanako (signature) Tetsuyuki KANEKO    |
|--------------------|----------------|------------------|--------------------------------------------------|
|                    |                |                  | (signature) Tetsuyuki KANEKO                     |
| Date _             | July 12,2001   | Name of Inventor | Nachi Ayai<br>(signature) Naoki AYAI             |
|                    | ,              |                  | (signature) Naoki AYAI                           |
| Date _             | July 12. 2001  | Name of Inventor | (signature) Jun FUJIKAMI                         |
|                    | /              |                  | (signature) Jun FUJIKAMI                         |
| Date July 12 200 / | July. 12. 200/ | Name of Inventor | Ninich Kobayashi  (signature) Shinichi KOBAYASHI |
|                    | ./             |                  | (signature) Shinichi KOBAYASHI                   |
| Date               |                | Name of Inventor |                                                  |
| _                  |                |                  | (signature)                                      |
| Data               |                | Name of Inventor |                                                  |
| Date               | <u>-</u>       |                  | (signature)                                      |
| <b>.</b>           |                |                  |                                                  |
| Date _             |                | Name of Inventor | (signature)                                      |
|                    |                |                  | (                                                |
| Date _             |                | Name of Inventor |                                                  |
|                    |                |                  | (signature)                                      |
| Date _             |                | Name of Inventor |                                                  |
|                    |                |                  | (signature)                                      |
| Date               |                | Name of Inventor |                                                  |
|                    | ,              | THE OF THIS OF   | (signature)                                      |

RECORDED: 08/03/2001

PATENT REEL: 012057 FRAME: 0423