502792137 05/01/2014

PATENT ASSIGNMENT COVER SHEET

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| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------|----------------|
| NAOKO INOUE | 04/25/2014 |
| HIDEKI YAGI | 04/25/2014 |
| RYUJI MASUYAMA | 04/25/2014 |
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PROPERTY NUMBERS Total: 1

| Property Type | Number | |
|---------------------|----------|--|
| Application Number: | 14267556 | |

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| DATE SIGNED: | 05/01/2014 |

Total Attachments: 2

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> **PATENT** REEL: 032803 FRAME: 0645 502792137

ASSIGNMENT

| METHOD FO | R PROD | UCING SPOT SI | ZE CONVERTER | ention entitled (li | nvention Title) | |
|---|---|--|--|--|---|--------------|
| | [X] a pa con [] U.S [] a U. No. No. | currently with thi . patent applicat S. patent applic file . If l | for this invention assignment. I ion Serial Noation based on ion (date) | ment are: n, executed by ti, filed or PCT Internations(U.S. pa | ne ASSIGNOR(S n nl Application tent application (| S) Serial |
| | | HTS also include plications identi | | eissues, continua | tions and extens | ilons of the |
| | [X] U.S [] Wo | | nly. ghts. In this cas | ment are: se, the assignee J.S. or foreign pa | | |
| | | | | s (or are) the inve mental Sheet(s). | | ignatures |
| | signee) | ferred to in this a SUMITOMO E 5-33, Kitahami | LECTRIC INDU | STRIES. LTD. o-ku, Osaka-shi, | Osaka 541-004 | 1, JAPAN |
| The ASSIGN (check one) | []An Ir []A Pa | rtnership orporation of | JAPAN | (specify stat | e or country) | ž. |
| valuable cont the ASSIGNE the full an the entire the right to the right to | sideratio EE, its su d exclus right, titl o sue an o claim p | n, receipt of whice some and a locessors and a live right to the ire and interest in drecover for an oriority under 35 | ch is acknowled ssigns: ivention; and to the PAT y past infringem USC 119, 35 U | | ign(s) the following the same state of the same | |

PATENT REEL: 032803 FRAME: 0646

THIS IS PAGE 2 OF AN ASSIGNMENT FROM THE INVENTOR(S) TO ASSIGNEE: SUMITOMO ELECTRIC INDUSTRIES, LTD, INVENTION TITLE: METHOD FOR PRODUCING SPOT SIZE CONVERTER

As to all U.S. patent applications assigned under this agreement, the ASSIGNOR(S) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue all Letters Patent to the ASSIGNEE as the assignee of the entire right, title and interest, for the sole use and enjoyment of said ASSIGNEE, its successors and assigns.

Further, the ASSIGNOR(S) agree(s) to communicate to said ASSIGNEE, or its representatives, any facts known to the ASSIGNOR(S) respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be issued to said ASSIGNEE, make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention.

The ASSIGNORS authorize any attorneys and agents who have a power of attorney in this application to check any appropriate boxes and to insert the Serial Number and filing date in this document after it has been executed.

| | on 1 | April . 28 , 2014 |
|---------------------------------|-------------------------------|---------------------|
| Naoko INOUE | N. Snoue | Allefthown before 5 |
| Name of sole or first inventor | Signature | Date |
| Hideki YAGI | Hideki YAGI | April 25, 2014 |
| Name of second inventor, if any | Signature | Date |
| Ryuji MASUYAMA | 1996) Hasiyama Signature | April 25. 2014 |
| Name of third inventor, if any | Signature | Date |
| Yoshihiro YONEDA | You hihiw Yoneda Signature | Apr: 125,2000 |
| Name of fourth inventor, if any | Signature | Date |
| | | |

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