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| Alexandria, VA 22313-1450 | | Atte | orney Docket No. <u>157951</u> | | | | | |
| Please record the attached document. | | | - | | | | | |
| Total number of pages including cover sheet, attachments, and document: 2 | | | | | | | | |
| A. Name of conveying parties: Yasuyuki OKADA | | | address of receiving party: CHI METALS, LTD. | | | | | |
| Yasunori ABE | | 2-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8614 JAPAN | | | | | | |
| B. Additional name(s) of convey | ing party(ies) attached? ☐ Yes ☑ No | | | | | | | |
| 3. A. Nature of conveyance: | | B. Additiona | ll name(s) & address(es) attached? ☐Yes ☑ No | | | | | |
| | Merger | | | | | | | |
| Security Agreement | ☐ Change of Name | | | | | | | |
| Other | | | | | | | | |
| B. Execution Date: <u>ALL: N</u> | ovember 1, 2013 | | | | | | | |
| 4. A. Patent Application No. 1 | 4/117,555 | B. Patent No | o.(s) | | | | | |
| Additional numbers attached? 🔲 Yes 🗵 No | | | | | | | | |
| C. Title of Application: <u>ENCODER</u> | | | | | | | | |
| Name and address of party to whom concerning document should be ma | | 6. Total number of | of applications and patents involved: 1 | | | | | |
| Name: <u>James A. Oliff</u> Address: OLIFF & BERRIDG P.O. Box 3208 | 50 20-4850 336-6400 36-2787 | 7. Please cha total fee (3 | narge Deposit Account No. 15-0461 the 37 CFR 3.41) in the amount of \$40.00. | | | | | |
| Alexandria, VA 22: Phone Number: 703- Fax Number: 703-8 Email: <u>email@oli</u> | | 8. Credit any over deposit accoun | rpayment or charge any underpayment to t number 15-0461. | | | | | |
| | | | | | | | | |
| 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. | | | | | | | | |
| James A. Oliff, Registration No. 27 Todd M. Guise, Registration No. 40 | | Date:] | November 13, 2013 | | | | | |

PATENT REEL: 031696 FRAME: 0104

ASSIGNMENT

| | Insert | (1) | Yasuyuki OKADA | (2) | Yasunori ABE | | | | |
|-----------------------------------|--|---|--|---|---|--|--|--|--|
| (1-8) | Legal Name(s) | (3) | | (4) | | | | | |
| | of Inventor(s) | (5) | | (6) | | | | | |
| | | (7) | | (8) | | | | | |
| | | In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to | | | | | | | |
| (9) | Insert Name of Assignee | (9) | HITACHI METALS, LTD. | | | | | | |
| (10) | Insert Address of Assignee | (10) | 2-1, Shibaura 1-chome, Minato-k | u, Tokyo 105- | 8614 Japan | | | | |
| | - | the enti inventi continu | (hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as | | | | | | |
| (11) | Insert Identification such as Title, Case Number, or Foreign | (11) | ENCODER | | | | | | |
| | Application Number (Attorney Docket No. 157951), filed on even date herewith or as | | | | | | | | |
| (12) | Alternative | (12) | U.S. Application Number | 14/117,55 | 55 | | | | |
| | Ideatification for filed applications | filed | November 13, 20 | 13 | | | | | |
| entire in this ass identifi | ng from said application(s) to interest herein assigned, and signment is binding on Assig 6) Each undersigned here cation that may be necessary ation of this document. | o the said A that he or s mor and As by grants t y or desirab | requests the Commissioner of the assignee, as Assignee of the entire she has not executed, and will not essignor's heirs, successors, assigns the firm of OLIFF & BERRIDGE, Piple in order to comply with the rule and undersigned on the date(s) opposite | interest, and co xecute, any ag and legal repre .C the power to s of the United | ovenants that he or she has full rerement(s) in conflict herewith, sentatives. Insert on this assignment any for States Patent and Trademark C | ight to convey the and agrees that further | | | |
| Date | 11/1/20 | (3 | Inventor Signature | Your | yte Ohalu | (\$EAL) | | | |
| Date | 11/1/20 | 13 | Inventor Signature | yasu | rose abe | (SEAL) | | | |
| Date | | | Inventor Signature _ | | | (SEAL) | | | |
| Date | | | Inventor Signature | | | (SEAL) | | | |
| Date | ************************************** | | Inventor Signature | | | (SEAL) | | | |
| Date | | | Inventor Signature | | | | | | |
| Date | | | | | | | | | |
| Date neither, | | referably be | Inventor Signature e signed before: (a) a Notary Public t two witnesses who also sign here. | if within the U | U.S.A. (b) a U.S. Consul if outs | , | | | |
| Date | | | Witness | | | | | | |
| Date | | | Witness | | | | | | |

PATENT REEL: 031696 FRAME: 0105

RECORDED: 11/13/2013