503490162 09/22/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3536787

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------|----------------|
| TAKUYA NOGUCHI | 07/28/2015 |
| OSAMU NASU | 07/29/2015 |
| HAJIME NAKAJIMA | 07/23/2015 |
| HARUHIKO TAKEYAMA | 07/28/2015 |
| TORU SASAKI | 07/28/2015 |
| MAKITO SEKI | 07/28/2015 |
| YOSHINAO TATEI | 07/23/2015 |
| SHIGENORI TAKEDA | 07/23/2015 |
| TAKESHI MUSHA | 07/23/2015 |

RECEIVING PARTY DATA

| Name: | MITSUBISHI ELECTRIC CORPORATION |
|-----------------|-------------------------------------|
| Street Address: | 7-3, Marunouchi 2-chome, Chiyoda-ku |
| City: | Tokyo |
| State/Country: | Japan |
| Postal Code: | 100-8310 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14861212 |

CORRESPONDENCE DATA

Fax Number: (703)413-2220

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (703) 413-3000
Email: AAdams@oblon.com
Correspondent Name: OBLON, ET AL.
Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER: 460590US20X

NAME OF SUBMITTER: ARIELLE ADAMS

PATENT 503490162 REEL: 036623 FRAME: 0045

| SIGNATURE: | /Arielle Adams/ |
|-------------------------------|--|
| DATE SIGNED: | 09/22/2015 |
| | This document serves as an Oath/Declaration (37 CFR 1.63). |
| Total Attachments: 4 | |
| source=460590USASN1#page1.tif | |
| source=460590USASN1#page2.tif | |
| source=460590USASN1#page3.tif | |
| source=460590USASN1#page4.tif | |

出願データシート (37 CFR 1.76) 及び単独の譲受人への譲渡証を用いる実用特許出願又は意匠特許出願 に関する宣言書 (37 CFR 1.63)

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

| 発明の名称 Title of Invention | ABSOLUTE ENCODER | |
|--|---|--|
| 以下に記名された発明者として、私はここに以下の通り宣言します: As the below named inventor, I hereby declare that: | | |
| 本宣言は以下に関 This declaration is | | |
| 図 添付の出願、 The attached | 又は application, or | |
| | 号又は PCT 国際出願番号 s application or PCT international application number ———————————————————————————————————— | |
| | 出願日 filed on | |
| | により、又は私の承認の下になされたものです。 ed application was made or authorized to be made by me. | |
| | 願のクレーム発明に関する真の発明者又は真の共同発明者であるものと信じます。 the original inventor or an original joint inventor of a claimed invention in the application. | |
| | (以下、譲受人と呼ぶ)は、に 该発明、及び米国、米国の領有地、及び全ての外国においてその後付与され得る全ての特許に 権原、及び利益の取得を希望します。 | |
| (hereinafter referre TOKYO 100-83 | ISUBISHI ELECTRIC CORPORATION d to as "ASSIGNEE") having places of business at: 7-3, Marunouchi 2-chome, Chiyoda-ku, 10 JAPAN, is desirous of acquiring the entire right, title and interest in and to said invention and its Patent that may be granted therefor in the United States and its territorial possessions and in any intries; | |
| 米国、米国の領有 条約及びその他の ての外国において に関する全ての権 NOW, THEREFO acknowledged, and said ASSIGNEE, tand in all foreign of other relevant Interinterest in and to | 「ルの対価の受領をここに確認し、そしてその他の適当かつ価値ある対価の下、私はここに、 「地、及び全ての外国における当該発明の完全かつ排他的な権利(当該出願から生じる、国際 内関連する国際条約又は協定にて規定する優先権を含む)、及び米国、米国の領有地、及び全 でその後付与され得る全ての特許、及び当該特許の全ての分割、再発行、継続、差替及び更新 「利、権原、及び利益を、当該譲受人に売却、譲渡、及び移転します。 ORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby d for other good and valuable consideration, I, by these presents do sell, assign and transfer unto the full and exclusive right to the said invention in the United States and its territorial possessions countries (including the right to claim priority under the terms of the International Convention and armational Treaties and Arrangements from the aforesaid application) and the entire right, title and any and all Letters Patent which may be granted therefor in the United States and its territorial an any and all foreign countries and in and to any and all divisions, reissues, continuations, enewals thereof. | |

私は、米国、米国の領有地、及び全ての外国における特許庁の職員に対し、当該特許が付与された際に、全ての当該特許を、私の全ての権利、権原、及び利益の譲受人として、当該譲受人、その相続人、及びその譲受人の使用及び利益の目的のみにおいて、当該特許が付与され得る全ての期間において、当該譲渡及び売却がもし無ければ私が有するであろうものと同程度に完全かつ全てに渡り、当該譲受人に対して発行することをここに許可し、かつ要求します。

I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.

さらに、私は、当該譲受人又はその代理人に、当該発明につき私が知っているいかなる事実をも伝え、いかなる法的手続きにおいても証言し、全ての合法な書面に署名し、全ての分割出願、継続出願、差替出願、更新出願、及び再発行出願を行い、全ての当該特許が当該譲受人に対して発行されるように全ての必要な譲渡書面を作成し、全ての合法な宣誓書を作成し、及び、当該譲受人、その相続人、及びその譲受人を助け、米国、米国の領有地、及び全ての外国において当該発明の適切な保護を図るために一般的に可能なこと全てを行うことに同意します。

Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

私は、本宣言書におけるいかなる故意による虚偽の陳述も、18 U.S.C. 1001 に基づき罰金、又は5年以下の懲役、又はそれらの双方により処罰され得ることをここに認めます。

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

STATEMENT OF ACCURATE TRANSLATION IN ACCORDANCE WITH 37 C.F.R. § 1.69(b):

The DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS is an accurate translation of the corresponding English language DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS.

| Signature: T. S. Law | Date: 6/10/2013 |
|--|------------------------|
| 発明者の法律上の氏名 LEGAL NAME OF INVENTOR | |
| 発明者 Inventor: Takuya NOGUCHI 署名 イク | 日付 Date: July 28, 20/5 |
| Signature: Jahnya Noguchin | |

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

出願データシートによる宣誓書

および譲渡用の補足用紙

SUPPLEMENTAL SHEET FOR DECLARATION USING AN APPLICATION DATA SHEET AND ASSIGNMENT

追加発明者

ADDITIONAL INVENTOR(S)

補足用紙

Supplemental Sheet

ページ Page <u>1</u> of <u>2</u>

| 発明者の法律上の氏名 LEGAL NAME OF INVENTOR 発明者 Inventor: Osamu NASU 署名 Signature: Osamu Nasu | 日付 July 29, 2015 |
|---|---------------------------|
| 発明者の法律上の氏名 LEGAL NAME OF INVENTOR 発明者 Inventor: Hajime NAKAJIMA 署名 Signature: Woyune Nakayimi | 日付 July 23, 2015 |
| 発明者の法律上の氏名 LEGAL NAME OF INVENTOR 発明者 Inventor: Haruhiko TAKEYAMA 署名 Signature: Haruhiko Takeyama | 日付 July 28, 2015. |
| 発明者の法律上の氏名 LEGAL NAME OF INVENTOR 発明者 Inventor: Toru SASAKI 署名 Signature: Of U Sasalc; | 日付 July 28, 2015 |
| 発明者の法律上の氏名 LEGAL NAME OF INVENTOR 発明者 Inventor: Makito SEKI 署名 Signature: ビュレン | 日付 July 28. 2015 Date: |

出願データシートによる宣誓書

および譲渡用の補足用紙

SUPPLEMENTAL SHEET FOR DECLARATION USING AN APPLICATION DATA SHEET AND ASSIGNMENT

追加発明者

ADDITIONAL INVENTOR(S)

補足用紙

Supplemental Sheet

ページ Page <u>2</u> of <u>2</u>

| 発明者の法律上の氏名 LEGAL NAME OF INVENTOR | |
|--------------------------------------|-----------------------------------|
| 発明者 Inventor: Yoshinao TATEI | 日付 Date: July 23. 2015 |
| 署名 Signature: Yoshi nao Tatei | Bato. Suy 47. |
| 発明者の法律上の氏名 LEGAL NAME OF INVENTOR | |
| 発明者 Inventor: Shigenori TAKEDA | ^{日付} Date: July 23. Zols |
| 署名 Signature: Shigenori Takeda | - Sinc |
| 発明者の法律上の氏名 LEGAL NAME OF INVENTOR | |
| 発明者 Inventor: _ Takeshi MUSHA | 目付 July 23 20 以 |
| 署名 Signature: Jakeshi Musha | / |
| 発明者の法律上の氏名 LEGAL NAME OF INVENTOR | |
| 発明者 Inventor: | 日付 Date: |
| 署名 Signature: | |
| 発明者の法律上の氏名 LEGAL NAME OF INVENTOR | |
| 発明者 Inventor: | 日付 Date: |
| 署名 Signature: | |
| | |

PATENT REEL: 036623 FRAME: 0050

RECORDED: 09/22/2015