504706841 12/28/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4753563

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------|----------------|
| KAZUTO YAMAGISHI | 12/19/2017 |
| TAKATOSHI UEMATSU | 12/19/2017 |
| TAKENOBU EBATO | 12/19/2017 |
| NOBUTOSHI ORITA | 12/13/2017 |
| DAISUKE TAKAHASHI | 12/18/2017 |

RECEIVING PARTY DATA

| Name: | TACHIKAWA CORPORATION | |
|-----------------|-------------------------|--|
| Street Address: | 3-1-12, MITA, MINATO-KU | |
| City: | TOKYO | |
| State/Country: | JAPAN | |
| Postal Code: | 1088334 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15579773 |

CORRESPONDENCE DATA

Fax Number: (703)991-7071

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.

Email: patent@MAIERANDMAIER.COM

Correspondent Name: MAIER & MAIER, PLLC

Address Line 1:345 SOUTH PATRICK STREETAddress Line 4:ALEXANDRIA, VIRGINIA 22314

| ATTORNEY DOCKET NUMBER: | 02120146US |
|--|--------------------|
| NAME OF SUBMITTER: TIMOTHY J. MAIER | |
| SIGNATURE: | /Timothy J. Maier/ |
| DATE SIGNED: | 12/28/2017 |
| This document serves as an Oath/Declaration (37 CFR 1.63). | |

Total Attachments: 6

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PATENT REEL: 044500 FRAME: 0035

504706841



PATENT REEL: 044500 FRAME: 0036

Docket No.: 02120146US Only After Sept 16, 2012 US Rights Only

ASSIGNMENT WITH DECLARATION FOR PATENT APPLICATION (37 CFR 1.63)

特許出願宣言書付き譲渡書 (37 CFR 1.63)

Japanese Language Assignment with Declaration

| Thereas, I/We, the undersigned inventor(s) hereinafter called signor(s), have invented certain improvements described in the oplication identified below; and Thereas TACHIKAWA CORPORATION of 3-1-12, Mita, Linato-ku, Tokyo 1088334, Japan, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor; ow therefore, for valuable consideration, receipt whereof is eareby acknowledged, We, the above named assignor(s), hereby sell, assign and transfer the above named assignee, its successors and assigns, the entire ght, title and interest in the application and the invention is closed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the |
|---|
| tinato-ku, Tokyo 1088334, Japan, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor; ow therefore, for valuable consideration, receipt whereof is ereby acknowledged, We, the above named assignor(s), hereby sell, assign and transfer the above named assignee, its successors and assigns, the entire ght, title and interest in the application and the invention is closed therein for the United States of America, including all |
| ereby acknowledged, We, the above named assignor(s), hereby sell, assign and transfer the above named assignee, its successors and assigns, the entire ght, title and interest in the application and the invention asclosed therein for the United States of America, including all |
| the above named assignee, its successors and assigns, the entire ght, title and interest in the application and the invention sclosed therein for the United States of America, including all |
| inted States that may be granted thereon, and all reissues thereof, acluding the right to claim priority under 35 USC 119 and the right is use for past damages, and I/we request the Director of the U.S. atent and Trademark Office to issue any Letters Patent granted pointhe invention set forth in the application to the assignee, its accessors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to be so by the assignee. |
| Legalization not required for recording but is prima facie evidence f execution under 35 USC 261) |
| s the below named inventor, I hereby declare that: |
| his assignment with declaration is directed to: |
| The attached application, or |
| United States Application or PCT International Application Number <u>15/579,773</u> filed on <u>December 5, 2017</u> (Confirmation No. <u>5814</u>). the application is entitled: BRAKING DEVICE, AND SHIELDING DEVICE USING SAME |
| |

[Page 1]

Japanese Language Assignment with Declaration

上記に明示された出願は、私が作成した、または作成を許可 したものです。

私は、本件出願において請求項に記載された発明の本来の発 明者、または、本来の共同発明者であると信じています。

私は、本宣言付き譲渡書の提出に関わる本件出願の内容を検 討し、理解しています。

私は、37 CFR 1.56に定義されるように、自身が知る全ての 特許性に関する重要な情報を、米国特許商標庁に開示する義 務があることを認識しています。

私は、本宣言付き譲渡書において故意に虚偽の供述を行った場合、18 USC 1001に基づき、罰金あるいは5年以下の懲役、または両方による処罰の対象となることを認識しています。

The above identified application was made or was authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the application for which this assignment with declaration is being submitted.

I am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR 1.56.

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

STATEMENT OF ACCURATE TRANSLATION IN ACCORDANCE WITH 37 CFR 1.69(b):

The assignment with declaration is an accurate translation of the corresponding English language assignment with declaration.

Signature

Date

March 11, 2014

[Page 2]

| NAME OF FIRST OR SOLE INVENTOR: 唯一あるいは第一の発明者名 | | | |
|--|---------------------------------|--------------------------|--|
| Given Name (first and middle [if any]) 名(名およびミドルネーム[該当する場合]) | Kazuto | Family Name or Sume 姓 | ame YAMAGISHI |
| Inventor's signature 発明者の署名 | ito Yamagishi | | Date 日付 December 19,2017 |
| Residence: 住所: c/o TACHIKAWA CO | DRPORATION, 3-1-12, Mita, M | 1inato-ku, Tokyo 108 | 8334, Japan |
| Mailing Address: 郵送先: c/o TACHIKAWA CO | ORPORATION, 3-1-12, Mita, N | Minato-ku, Tokyo 108 | 8334, Japan |
| NAME OF SECOND INVENTOR: 第二の発明者名 | | | |
| Given Name (first and middle [if any]) 名(名およびミドルネーム[該当する場合]) | Takatoshi | Family Name or Surn 姓 | ame UEMATSU |
| Inventor's signature 発明者の署名 しんし | ctoshi Venatsh | | Date ^{目付} December 19,2017 |
| Residence: 住所: c/o TACHIKAWA CO | ORPORATION, 3-1-12, Mita, M | 1inato-ku, Tokyo 108 | 8334, Japan |
| Mailing Address: 郵送先: c/o TACHIKAWA C | ORPORATION, 3-1-12, Mita, N | Ainato-ku, Tokyo 108 | 8334, Japan |
| NAME OF THIRD INVENTOR: 第三の発明者名 | | | |
| Given Name (first and middle [if any]) 名(名およびミドルネーム[該当する場合]) | Takenobu | Family Name or Surn 姓 | ame EBATO |
| Inventor's signature 発明者の署名 て (Ce M | obu Ebaro | | Date 目付 December 19,2017 |
| Residence: 住所: c/o TACHIKAWA CORPORATION, 3-1-12, Mita, Minato-ku, Tokyo 1088334, Japan | | | |
| Mailing Address: 郵送先: c/o TACHIKAWA CORPORATION, 3-1-12, Mita, Minato-ku, Tokyo 1088334, Japan | | | |
| NAME OF FOURTH INVENTOR: 第四の発明者名 | | | |
| Given Name (first and middle [if any]) 名(名およびミドルネーム[該当する場合]) | Nobutoshi | Family Name or Sum 姓 | ame ORITA |
| Inventor's signature 発明者の署名 | | | Date 日付 |
| Residence: 住所: c/o TOK BEARING (| CO., LTD., 2-21-4, Azusawa, Ita | abashi-ku, Tokyo 174 | 8501, Japan |
| Mailing Address: 郵送先: c/o TOK BEARING CO., LTD., 2-21-4, Azusawa, Itabashi-ku, Tokyo 1748501, Japan | | | |
| NAME OF FIFTH INVENTOR: 第五の発明者名 | | | |
| Given Name (first and middle [if any]) 名(名およびミドルネーム[該当する場合] |) Daisuke | Family Name or Surn 姓 | name TAKAHASHI |
| Inventor's signature 発明者の署名 | 2000 | | Date 日付 |
| Residence: 住所: c/o TOK BEARING CO., LTD., 2-21-4, Azusawa, Itabashi-ku, Tokyo 1748501, Japan | | | |
| Mailing Address: 郵送先: c/o TOK BEARING CO., LTD., 2-21-4, Azusawa, Itabashi-ku, Tokyo 1748501, Japan | | | |
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| | [Page 3] | | |

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Docket No.: 02120146US Only After Sept 16, 2012 US Rights Only

ASSIGNMENT WITH DECLARATION FOR PATENT APPLICATION (37 CFR 1.63)

特許出願宣言書付き譲渡書 (37 CFR 1.63)

Japanese Language Assignment with Declaration

| 下記に署名した発明者であり、以下に譲渡人と称される私 (我々)は、下記の出願に記載された改良に関する発明を し、 | Whereas, I/We, the undersigned inventor(s) hereinafter called assignor(s), have invented certain improvements described in the application identified below; and |
|--|--|
| の(譲受人)は、本件出願 および本件発明、ならびに当該出願から得られるいかなる米 国特許に関する全ての権利、権原、および利益の取得を要求 します。 | Whereas <u>TACHIKAWA CORPORATION</u> of <u>3-1-12</u> , <u>Mita, Minato-ku, Tokyo 1088334</u> , <u>Japan</u> , (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor; |
| よって、価値ある対価の受領をここに確認し、 | Now therefore, for valuable consideration, receipt whereof is hereby acknowledged, |
| 上で譲渡人として指名された私(我々)は、米国における本件出願およびその発明開示、全ての分割出願および継続出願、これら出願について許可された米国特許証および全ての再発行特許に関する全ての権利(35 USC 119に基づく優先権を主張する権利と過去分の損害賠償請求権を含む)、権原、および利益を、上で指定した譲受人、その承継人ないし権利承継者に売却、譲渡、移転するとともに、私(我々)は米国特許商標庁長官に対し、本件出願に記載の発明に対する特許証を、譲受人、その承継人ないし権利承継者に発行することを要請し、私(我々)は、これ以上の対価なしに、譲受人の求めにより、本件米国特許出願に関して譲受人が必要とみなす全ての書類を作成します。 | I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 USC 119 and the right to sue for past damages, and I/we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee. |
| (公証人による認証は不要であるが、これらの書類は、35 USC 261に基づく推定された証拠となる) | (Legalization not required for recording but is prima facie evidence of execution under 35 USC 261) |
| 私は, 下記に記載の発明者として, 以下の通り宣言します。 | As the below named inventor, I hereby declare that: |
| 本宣言付き譲渡書は、以下に関します。 | This assignment with declaration is directed to: |
| 添付の出願書、または、 | The attached application, or |
| 年_月_日に出願された米国出願あるいはPCT 国際出願番号(確認番号) | X United States Application or PCT International Application Number <u>15/579,773</u> filed on <u>December 5, 2017</u> (Confirmation No. <u>5814</u>). |
| 本件出願の名称は、以下の通りです。 | The application is entitled: |
| | BRAKING DEVICE, AND SHIELDING DEVICE USING SAME |
| | |
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[Page 1]

Japanese Language Assignment with Declaration

上記に明示された出願は, 私が作成した、または作成を許可 したものです。

私は、本件出願において請求項に記載された発明の本来の発 明者、または、本来の共同発明者であると信じています。

私は、本宣言付き譲渡書の提出に関わる本件出願の内容を検 討し、理解しています。

私は、37 CFR 1.56に定義されるように、自身が知る全ての 特許性に関する重要な情報を、米国特許商標庁に開示する義 務があることを認識しています。

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The above identified application was made or was authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the application for which this assignment with declaration is being submitted.

I am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR 1.56.

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

STATEMENT OF ACCURATE TRANSLATION IN ACCORDANCE WITH 37 CFR 1.69(b):

The assignment with declaration is an accurate translation of the corresponding English language assignment with declaration.

Signature

Date

March 11, 2014

REEL: 044500 FRAME: 0041

| NAME OF FIRST OR SOLE INVENTOR: | | | | |
|--|--|--------------------------|------------------------------|--|
| 唯一あるいは第一の発明者名 | | | | |
| Given Name (first and 名(名およびミドハ | d middle [il any]) レネーム[該当する場合]) Kazuto | Family Name or Surr 姓 | name YAMAGISHI | |
| Inventor's signature 発明者の署名 | | | Date 日付 | |
| Residence: 住所: | | | | |
| Mailing Address: 郵送先: | c/o TACHIKAWA CORPORATION, 3-1-12, Mita, N | Minato-ku, Tokyo 108 | 38334, Japan | |
| NAME OF SECON 第二の発明者名 | D INVENTOR: | | | |
| Given Name (first and 名(名およびミドル | d middle [if any]) ンネーム[該当する場合]) Takatoshi | Family Name or Surr 姓 | name UEMATSU | |
| Inventor's signature 発明者の署名 | | | Date 日付 | |
| Residence: 住所: | c/o TACHIKAWA CORPORATION, 3-1-12, Mita, N | ⁄linato-ku, Tokyo 108 | 8334, Japan | |
| Mailing Address: 郵送先: | c/o TACHIKAWA CORPORATION, 3-1-12, Mita, N | Minato-ku, Tokyo 108 | 38334, Japan | |
| NAME OF THIRD I 第三の発明者名 | INVENTOR: | | | |
| Given Name (first and 名(名およびミドル | d middle [if any]) ンネーム[該当する場合]) Takenobu | Family Name or Surn 姓 | ame EBATO | |
| Inventor's signature 発明者の署名 | Takenoou | | Date 日付 | |
| Residence: 住所: c/o TACHIKAWA CORPORATION, 3-1-12, Mita, Minato-ku, Tokyo 1088334, Japan | | | | |
| Mailing Address: 郵送先: c/o TACHIKAWA CORPORATION, 3-1-12, Mita, Minato-ku, Tokyo 1088334, Japan | | | | |
| NAME OF FOURTI 第四の発明者名 | H INVENTOR: | | | |
| Given Name (first and 名(名およびミドル | l middle [if any]) vネーム[該当する場合]) Nobutoshi | Family Name or Sum 姓 | ame ORITA | |
| Inventor's signature 発明者の署名 | Nobutoshi Onia | 1 | Date 目付 December 13, 2017 | |
| Residence: 住所: | c/o TOK BEARING CO., LTD., 2-21-4, Azusawa, Ita | ıbashi-ku, Tokyo 174 | | |
| Mailing Address: 郵送先: c/o TOK BEARING CO., LTD., 2-21-4, Azusawa, Itabashi-ku, Tokyo 1748501, Japan | | | | |
| NAME OF FIFTH INVENTOR: 第五の発明者名 | | | | |
| Given Name (first and 名(名およびミドル | l middle [if any]) ×ネーム[該当する場合]) Daisuke | Family Name or Surn 姓 | ame TAKAHASHI | |
| Inventor's signature 発明者の署名 | Pajsuke Takahashi | | Date BH December 19,2017 | |
| Residence: 住所: c/o TOK BEARING CO., LTD., 2-21-4, Azusawa, Itabashi-ku, Tokyo 1748501, Japan | | | | |
| Mailing Address: 郵送先: c/o TOK BEARING CO., LTD., 2-21-4, Azusawa, Itabashi-ku, Tokyo 1748501, Japan | | | | |
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