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PATENT ASSIGNMENT COVER SHEET

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

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| YUKI TAO | 02/01/2014 |
| MORIYOSHI KANAMARU | 02/01/2014 |
| AKIRA NAMBU | 02/01/2014 |
| HIDEO HATA | 02/01/2014 |

RECEIVING PARTY DATA

| Name: | KOBELCO RESEARCH INSTITUTE, INC. | |
|-----------------|--|--|
| Street Address: | 1-5-1, WAKINOHAMA-KAIGAN-DORI, CHUO-KU | |
| City: | KOBE-SHI, HYOGO | |
| State/Country: | JAPAN | |
| Postal Code: | 651-0073 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14427761 |

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.

(703) 413-3000 Phone:

Email: Tgessesse@oblon.com

Correspondent Name: OBLON, ET AL. Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

| ATTORNEY DOCKET NUMBER: | 450323US99XPCT | |
|-------------------------|-------------------|--|
| NAME OF SUBMITTER: | TIRHAS GESSESSE | |
| SIGNATURE: | /Tirhas Gessesse/ | |
| DATE SIGNED: | 03/12/2015 | |

Total Attachments: 2

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> **PATENT REEL: 035149 FRAME: 0855** 503215999

ASSIGNMENT OF APPLICATION

WHEREAS I (WE) YUKI TAO, MORIYOSHI KANAMARU, AKIRA NAMBU and HIDEO HATA of c/o Kobelco Research

Institute Inc. 3-1, Shinhama 2-chome, Arai-cho, Takasago-shi, Hyogo 676-8670 Japan, respectively, have invented certain new

and useful improvements in:

OXIDE SINTERED BODY AND SPUTTERING TARGET

(Application No.

, filed

).and

WHEREAS, KOBELCO RESEARCH INSTITUTE, INC. having a place of business at: 1-5-1, Wakinohama-kaigan-dori,

Chuo-ku, Kobe-shi, Hyogo 651-0073 Japan, (hereinafter referred to as "ASSIGNEE") is/are desirous of acquiring the entire right,

title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its

territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged,

and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full

and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire

right, title and interest in and to any and all Letters Patent which may be granted therefore in the United States and its territorial

possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and

renewals thereof.

I (WE) 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 (our) entire

right, title and interest in and to the same, for the sole use and behalf 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 (us) had

this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us)

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.

The undersigned hereby grant(s) the firm of OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, L.L.P. of 1940

DUKE STREETALEXANDRIA, VIRGINIA 22314U.S.A. the power to insert on this assignment any further identification,

including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United

States Patent and Trademark Office for recordation of this document.

-1-

PATENT

| Date February 1,2014 | 田尾 幸樹士 YUKI TAO |
|----------------------|----------------------------|
| Date February 1,2014 | 主九宁贯 MORIYOSHI KANAMARU |
| Date February 1,2014 | 南部 旭 AKIRA NAMBU |
| Date February 1,2014 | HIDEO HATA |
| <u>Date</u> | |
| Date | |
| Date | |
| Date | |
| Date | |