

PATENT ASSIGNMENT

Electronic Version v1.1
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| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | |
|--|--------------------------------|---------------|--------------------------------|---------------------|--------------------|------------|------------|----------------|------|--------------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Michael P. Jacques</td> <td>02/28/2013</td> </tr> <tr> <td>Kuang-O Yu</td> <td>02/28/2013</td> </tr> </tbody> </table> | | Name | Execution Date | Michael P. Jacques | 02/28/2013 | Kuang-O Yu | 02/28/2013 | | | | |
| Name | Execution Date | | | | | | | | | | |
| Michael P. Jacques | 02/28/2013 | | | | | | | | | | |
| Kuang-O Yu | 02/28/2013 | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | |
| <table border="1"> <tr> <td>Name:</td> <td>RTI International Metals, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>1000 Warren Avenue</td> </tr> <tr> <td>City:</td> <td>Niles</td> </tr> <tr> <td>State/Country:</td> <td>OHIO</td> </tr> <tr> <td>Postal Code:</td> <td>44446-1168</td> </tr> </table> | | Name: | RTI International Metals, Inc. | Street Address: | 1000 Warren Avenue | City: | Niles | State/Country: | OHIO | Postal Code: | 44446-1168 |
| Name: | RTI International Metals, Inc. | | | | | | | | | | |
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| Postal Code: | 44446-1168 | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13785467</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13785467 | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Application Number: | 13785467 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
| <p>Fax Number: 3302441173 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 330-244-1174 Email: docket@sandandsebolt.com Correspondent Name: SAND & SEBOLT Address Line 1: AEGIS TOWER, SUITE 1100 Address Line 2: 4940 MUNSON STREET, NW Address Line 4: CANTON, OHIO 44718-3615</p> | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 2313056US1AP | | | | | | | | | | |
| NAME OF SUBMITTER: | Clay H. Cunningham | | | | | | | | | | |
| <p>Total Attachments: 3 source=2313056US1AP-ASSIGNMENT#page1.tif source=2313056US1AP-ASSIGNMENT#page2.tif source=2313056US1AP-ASSIGNMENT#page3.tif</p> | | | | | | | | | | | |

OP \$40.00 13785467

ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (1.00), and of other good and valuable consideration paid to the undersigned Assignors, by the Assignee, RTI International Metals, Inc., a corporation organized under the laws of the State of Ohio, having a business address of 1000 Warren Avenue, Niles, OH 44446-1168, receipt whereof is hereby acknowledged, the undersigned Assignors by these presents do hereby sell, assign, transfer and set over and has sold, assigned, transferred and set over unto the said Assignee the entire right, title and interest, including the right to sue for any and all past infringement, in and to the invention or improvement in METHOD OF MAKING LONG INGOTS (CUTTING IN FURNACE), said invention being fully described and/or claimed in the application for Letters Patent of the United States of America, executed this date, and to any and all standard utility applications, divisionals, continuations, and reissues thereof, and to all Letters Patent issued therefor in and for the United States and all foreign countries, the same to be held and enjoyed by said Assignee, its successors, assigns or other legal representatives, to the full ends of the terms for which all Letters Patent therefor may be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

AND SAID ASSIGNEE IS HEREBY AUTHORIZED to make application for and to receive Letters Patent for said invention in any of said countries at its election.

AND BY THIS COVENANT the undersigned Assignors will execute or procure any further necessary assurance of title to said invention and Letters Patent; and at any time, upon the request and at the expense of said Assignee, will execute and deliver any and all papers that may be necessary or desirable to perfect the title to said invention or any Letters Patent which may be granted therefor in said Assignee, its successors, assigns or other legal representatives, and, upon the request and at the expense of said Assignee, will execute any additional or divisional applications for

patents for said invention, or any part or parts thereof, and for the reissue of any Letters Patents to be granted therefor, and will make all rightful oaths and do all lawful acts requisite for procuring the same or for aiding therein, without further compensation, but at the expense of said Assignee, its successors, assigns or other legal representatives.

AND THE COMMISSIONER of Patents is hereby authorized and requested to issue any and all Letters Patent of the United States for said invention, to said Assignee.

WITNESS:

[Signature] Michael P. Jacques
Assignor: Michael P. Jacques

Date 2/20/13

State of Ohio
County of Trumbull

I, Rose Fenstermaker, a Notary Public in and for Trumbull County, hereby certify that Michael P. Jacques who executed this assignment before me, has proven to me on the basis of satisfactory evidence, that he/she had and has full authority to execute this document.

Witness my signature and Official Seal at N. Yes,
Ohio this 20th day of February, 2013.

[Signature]
Notary Public

SEAL

ROSE FENSTERMAKER, Notary Public
In and for the State of Ohio
My Commission Expires January 21, 2016

WITNESS:

Rose Fenstermaker Kuang-O Yu
Assignor: Kuang-O Yu
Date 2/28/2013

State of Ohio
County of Trombly

I, Rose Fenstermaker, a Notary Public in and for
Trombly County, hereby certify that Kuang-O Yu
who executed this assignment before me, has proven to me on the basis of
satisfactory evidence, that he/she had and has full authority to execute this
document.

Witness my signature and Official Seal at Niles,
Ohio this 28th day of February, 2013.

Rose Fenstermaker
Notary Public

SEAL

ROSE FENSTERMAKER, Notary Public
in and for the State of Ohio
My Commission Expires January 21, 2016

SAND & SEBOLT
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Attorney Docket: 2313056US1AP