

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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>Maria Bozena Winnicka</td> <td>04/17/2013</td> </tr> <tr> <td>Gary A. Rozak</td> <td>05/30/2013</td> </tr> </tbody> </table>		Name	Execution Date	Maria Bozena Winnicka	04/17/2013	Gary A. Rozak	05/30/2013
Name	Execution Date						
Maria Bozena Winnicka	04/17/2013						
Gary A. Rozak	05/30/2013						
RECEIVING PARTY DATA							
Name:	H.C. Starck Inc.						
Street Address:	45 Industrial Place						
City:	Newton						
State/Country:	MASSACHUSETTS						
Postal Code:	02461						
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>13799796</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13799796		
Property Type	Number						
Application Number:	13799796						
CORRESPONDENCE DATA							
Fax Number:	2023736001						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	617-951-8000						
Email:	susan.lanney@bingham.com						
Correspondent Name:	Bingham McCutchen LLP						
Address Line 1:	2020 K Street NW						
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20006						
ATTORNEY DOCKET NUMBER:	HCS-060/7311922001						
NAME OF SUBMITTER:	Susan Lanney						
Signature:	/Susan Lanney/						
Date:	06/06/2013						
Total Attachments: 3 source=HCS-060 Assignment#page1.tif source=HCS-060 Assignment#page2.tif source=HCS-060 Assignment#page3.tif							

CH \$40.00 13799796

PATENT APPLICATION
Assignment

For good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned, co-inventors:

MARIA BOZENA WINNICKA

GARY A. ROZAK

Who have created a certain invention for which an application for United States Letters Patent entitled METALLIC CRUCIBLES AND METHODS OF FORMING THE SAME, was filed at the U.S. Patent and Trademark Office on March 13, 2013 and assigned U.S. Patent Application Serial No. 13/799,796.

Do hereby sell, assign and transfer to **H.C. Starck Inc.**, a corporation, having a place of business at 45 Industrial Place, Newton, MA 02461, its successors, assigns, and legal representatives, the full and exclusive right to said invention and said application and to any and all inventions described in said invention and said application and to any and all inventions described in said application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States, its territorial possessions and all foreign countries; and in and to any and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possession and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, act, and treaties, including all future conventions, unions, agreements, acts, and treaties;

Agree that **H.C. Starck Inc.**, hereinafter referred to as Assignee, may apply for and receive Letters Patent for said invention and said inventions, hereinafter referred to as said invention, in its own name, in the United States, its territorial possessions, and all foreign countries; and that, when requested to carry out in good faith the intent and purpose of this assignment, at the expense of said Assignee, its successors, assigns and legal representatives, the undersigned will execute all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, execute all rightful oaths, assignments, powers of attorney and other papers, testify in any legal or quasi legal proceedings; communicate to said Assignee, its successors, assigns or legal representatives all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said invention and for vesting title to said invention and all applications for patents on said invention in said Assignee, successors, assigns, or legal representatives; and

Covenant with said Assignee, its successors, assigns, or legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same has herein expressed is possessed by the undersigned.

IN THE TESTIMONY WHEREOF I have hereunto set my signature on the date indicated below.

Maria Bozena Winnicka
MARIA BOZENA WINNICKA

Date: April 17, 2013

United States of America)
State of Ohio) ss.:
County of Cuyahoga)

On this 17th day of April, 2013, before me personally came MARIA BOZENA WINNICKA, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

L. A. Hill
Notary Public



LINDA A. HILL
Notary Public, STATE OF OHIO
My Commission Expires
MAY 23, 2015

Gary A Rozak

GARY A. ROZAK

Date: 5-30-13

United States of America)
State of OHIO) ss.:
County of CUYAHOGA

On this 30th day of May, 2013, before me personally came GARY A. ROZAK, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Bonnie L. Brinkman
Notary Public



BONNIE L. BRINKMAN
NOTARY PUBLIC, STATE OF OHIO
MY COMMISSION EXPIRES
MAY 12, 2018