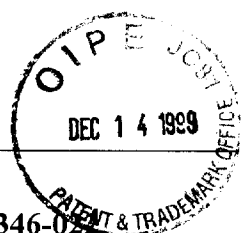


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FORM PTO-1596
1-31-92

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Docket No.: 50346-02

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereto:

1. Name of Conveying Parties:
Michael BARTHOLOMEUSZ, Mike TSAI and Anand DEODUTT
Additional name(s) of conveying party(ies) attached? Yes

2. Name and address of receiving party:
Name: Heraeus, Inc.
Address: 301 North Roosevelt Avenue
Chandler, Arizona
Additional name(s) & address(es) attached? Yes

3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other
Execution Date: November 29, 1999

4. Application number(s) or patent number(s):
If the document is being filed together with a new application, the execution date of the application is:
A. Patent Application No(s).
09/410,014, filed October 1, 1999
B. Patent No(s).
Additional numbers attached? Yes

6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 3.41) \$40.00
 Enclosed
 Authorized to be charged to deposit account
8. Deposit account number:
500417

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: MCDERMOTT, WILL & EMERY
Internal Address:
Street Address: 600 13th Street, N.W.
City: Washington State: DC Zip: 20005

12/23/1999 JSHABAZZ 00000015 500417 09410014

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9. Statement and signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.
Robert L. Price, 22,685
December 14, 1999

Name and Registration No. of Person Signing Signature Date
Total number of pages comprising cover sheet: 1

CMB No. 0851-0011 (exp. 4/94)

ASSIGNMENT

WHEREAS WE, Michael BARTHOLOMEUSZ, Mike TSAI, Anand DEODUTT of Chandler, AZ, respectively, have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled WROUGHT PROCESSING OF BRITTLE TARGET ALLOY FOR SPUTTERING APPLICATIONS, executed by me on the date of execution of this document, as shown below, and filed concurrently herewith; OR for which an application for United States Letters Patent was filed on October 1, 1999, and identified by United States Serial No. 09/410,014;

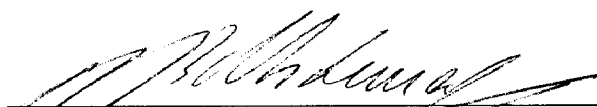
AND WHEREAS, Heraeus, Inc., a corporation of the State of Arizona and having an address of 301 North Roosevelt Avenue, Chandler, AZ is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, We do hereby sell, assign, transfer and set over unto Heraeus, Inc., its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including the right of priority and including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;

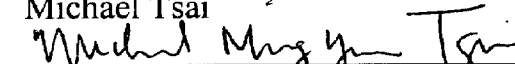
UPON SAID CONSIDERATIONS, We hereby agree with the said assignee that We will not execute any writing or do any act whatsoever conflicting with these presents, and that We will, at any time upon request, without further or additional consideration but at the expense of said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and assignee;

AND We request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said Heraeus, Inc., its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

11/29/99
Date


Michael Bartholomeusz

Date
11/29/99

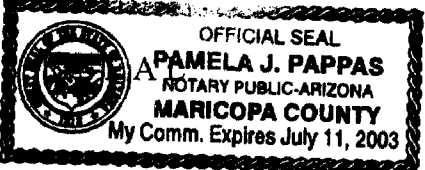
Michael Tsai


Date
11-29-99

Anand Deodutt


STATE OF Arizona)
) SS:
COUNTY OF Maricopa)

On this 29th day of November, 1999, before me personally appeared Michael Bartholomeusz, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

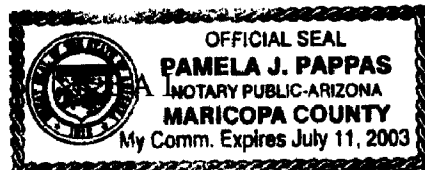


Pamela J. Pappas
Notary Public

My commission expires July 11, 2003

STATE OF Arizona)
) SS:
COUNTY OF Maricopa)

On this 29th day of November, 1999, before me personally appeared Mike Tsai, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



Pamela J. Pappas
Notary Public

My commission expires July 11, 2003

STATE OF Arizona)
) SS:
COUNTY OF Maricopa)

On this 29th day of November, 1999, before me personally appeared Anand Deodutt, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

SEAL

Pamela J. Pappas
Notary Public

My commission expires July 11, 2003

