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To the Director

**1 COVER SHEET ONLY**

record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)/Execution Date(s):**

**Kulvir SINGH**  
**Jaipal Reddy GURRAM**  
**Sudhakar Reddy KATAM**  
**Pashupati NATH**  
**Mallesh PUDTHA**  
**Vishnu Kumar AGRAWAL**

Execution Date(s) July 5, 2007

Additional name(s) of conveying party(ies) attached?  Yes  No

**3. Nature of conveyance:**

- Assignment  Merger
- Security Agreement  Change of Name
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other \_\_\_\_\_

**2. Name and address of receiving party(ies)**

Name: BHARAT HEAVY ELECTRICALS LIMITED

Internal Address: \_\_\_\_\_

Street Address: Bhel House, Siri Fort

City: New Delhi

State: \_\_\_\_\_

Country: INDIA Zip: 110 049

Additional name(s) & address(es) attached?  Yes  No

**4. Application or patent number(s):**

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

11/885810

09/10/2007 BFREY1 00000073 11885810

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40.00 DP

Additional numbers attached?  Yes:  No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: William H. Logsdon

Internal Address: The Webb Law Firm

Street Address: 700 Koppers Building

436 Seventh Avenue

City: Pittsburgh

State: PA Zip: 15219

Phone Number: 412-471-8815

Fax Number: 412-471-4094

Email Address: webblaw@webblaw.com

**6. Total number of applications and patents involved:**

1

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed with filing fee
- None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_

Expiration Date \_\_\_\_\_

b. Deposit Account Number 23-0650

Authorized User Name \_\_\_\_\_

**9. Signature:**

*William H. Logsdon*  
Signature

September 6, 2007

Date

William H. Logsdon, Reg. No. 22,132

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

3

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

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ASSIGNMENT

WHEREAS, we, **KULVIR SINGH, JAIPAL REDDY GURRAM, SUDHAKAR REDDY KATAM, PASHUPATI NATH, MALLESH PUDTHA and VISHNU KUMAR AGRAWAL**, all residing in Vikasnagar, India, have co-invented, certain new and useful improvements in **NIOBIUM ADDITION IN CrMo $\frac{1}{2}$ V STEEL CASTINGS FOR STEAM TURBINE CASING APPLICATIONS**, for which an application was filed in the United States Patent and Trademark Office, as initiation of the national phase of International Application No. PCT/IN2006/000097, filed March 20, 2006;

AND, WHEREAS, **BHARAT HEAVY ELECTRICALS LIMITED**, a corporation of India, having its Registered Office at Bhel House, Siri Fort, New Delhi 110 049, India, hereinafter called the "assignee", is desirous of acquiring the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed.

NOW, THEREFORE, for good and valuable consideration paid to us by said assignee, the receipt of which is hereby acknowledged, we do hereby assign, sell, transfer, and set over unto said assignee the entire right, title and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, said assignees to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by us had this assignment not been made.

The Commissioner for Patents is requested to issue such Letters Patent in accordance herewith. we covenant that we are the lawful owners of the said application, inventions, and improvements, that the same are unencumbered, that no license has been granted to make, use, or vend the said inventions or improvements or any of them, and that we have the full right to make this assignment.

And for the consideration aforesaid, we agree that we will communicate to said assignee or the representatives thereof any facts known to us respecting said inventions and improvements, and will, upon request, but without expense to us, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, continuation-in-part, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said assignee or by counsel for said assignees, to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned.

This assignment shall be binding upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said assignee.

Dated 05/07/07 Kulvir Singh  
Kulvir Singh

Dated 05/07/07 Jaipal Reddy Gurram  
Jaipal Reddy Gurram

Dated 5/7/07 K. Sudhakar Reddy  
Sudhakar Reddy Katam

Dated 05/07/07 Pashupati Nath  
Pashupati Nath

Dated 05/07/07 Mallesha Pudtha  
Mallesha Pudtha

Dated 05/07/07 Vishnu Kumar Agrawal  
Vishnu Kumar Agrawal

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