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To the Honorable Commissioner of Patents and Trademarks: Please record the a

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of.

1. Name of conveying party(ies):
Richard G. Hall

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

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

Name: North American Refractories Co.

Internal Address: _____

Street Address: 500 Halle Building, 1228 Euclid Avenue

City: Cleveland State: OH ZIP: 44115-1809

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

3. Nature of conveyance:

Assignment Merger

Security Agreement Change of Name

Other _____

Execution Date: November 11, 1998

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

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)
09/189,458

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Mark Kusner

Internal Address: Mark Kusner Co., LPA

Street Address: Highland Place - Suite 310
6151 Wilson Mills Road
City: Highland Heights State: OH ZIP: 44143

6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41) \$ 40

Enclosed

Authorized to be charged to deposit account

8. Deposit account number: _____

(Attach duplicate copy of this page if paying by deposit account)

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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.

Mark Kusner
Name of Person Signing

Mark Kusner
Signature

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

Date: NOV 20, 1998

Mail documents to be recorded with required cover sheet information to:
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12/03/1998 JMT/KMS 09189458 40.00 01 FC:561

For: U.S. Rights and Foreign Rights
For: U.S. Application
By: Inventor

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR: Richard G. Hall
11082 Vaughn Road
Hiram, OH 44234
Nationality: US

hereby sells, assigns and transfers to

ASSIGNEE: North American Refractories Co.
500 Halle Building - 1228 Euclid Avenue
Cleveland, OH 44115-1809
Nationality: Ohio Corporation

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the invention entitled:

ROTARY SOCKET TAPHOLE ASSEMBLY

and which is found in (37 C.F.R. § 3.21) U.S. application no. 09/189,458 filed on November 10, 1998 and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

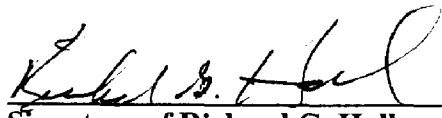
ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

(Assignment of Invention—page 1 of 2)

IN WITNESS WHEREOF, I have hereunto set hand and seal this 11th day of November, 1998.

Date of signing



Signature of Richard G. Hall

(Assignment of Invention—page 2 of 2)