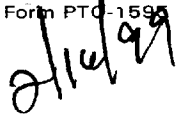


02-22-1999

Form PTO-1595



ER SHEET

Docket No. 980799/LH

100969339

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

**1. Name of conveying party(ies):**

Tsuneo ARAKI  
Kenichi FUKAGAWA  
Atsushi SAKAI

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

- 1. NKK CORPORATION  
1-2, 1-Chome, Marunouchi  
Chiyoda-ku, Tokyo 100, JAPAN
- 2. NIPPON CHUZO KABUSHIKI KAISHA  
2-1, Shiraishi-cho,  
Kawasaki-ku, Kawasaki, JAPAN

**3. Nature of conveyance: - ASSIGNMENT**

Execution Date(s): JANUARY 27, 1999, JANUARY 27, 1999, JANUARY 27, 1999,

JANUARY 29, 1999, \_\_\_\_\_, \_\_\_\_\_, respectively.

**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 as follows:

\_\_\_\_\_

\_\_\_\_\_ respectively.

A. Patent Application No. (s)

B. Patent No.(s)

09/217,562

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

**FRISHAUF, HOLTZ, GOODMAN, LANGER & CHICK, P.C.**  
767 Third Avenue, 25th Floor  
New York, New York 10017-2023

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 40.00

Amount included with filing fee attached hereto.

Check enclosed.

8. To the extent not tendered by check, authorization is given to charge the Assignment Fee (37 CFR.341) to Account No. 06-1378.

**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.

02/18/1999 JSHABAZZ 00000051 09217562

01 40:58:1 40.00 DP

Dated: February 12, 1999

By: \_\_\_\_\_

Leonard Holtz  
Reg. No. 22,974

**CERTIFICATE OF MAILING**

I hereby certify this correspondence is being deposited with the United States Postal Service as First Class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231 on the date noted below.

Attorney: Leonard Holtz

Dated: February 12, 1999

**ASSIGNMENT**

In consideration of value received, I, having a residence and post office address as stated below next to my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of an invention described in an application for United States patent entitled:

**FURNACE BODY STRUCTURAL MEMBER FOR METALLURGICAL SHAFT FURNACE**

sell and assign to (1) NKK CORPORATION

1-2, Marunouchi 1-chome, Chiyoda-ku, Tokyo, JAPAN and

(2) NIPPON CHUZO KABUSHIKI KAISHA

2-1, Shiraishi-cho, Kawasaki-ku, Kawasaki, JAPAN

both corporations of Japan

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said application for United States patent which was filed on December 21, 1998 and given Serial No. 09/217,562

and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty it is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all countries.

I hereby grant to any attorney member of the following law firm the power to insert on this Assignment the Serial Number and filing date of said application when known.

SERIAL NO.: 09/217,562

FILING DATE: December 21, 1998

Frishauf, Holtz, Goodman, Langer & Chick, P.C., 767 Third Avenue - 25th Floor, New York, N.Y. 10017-2023.

**INVENTOR: SIGNATURE****DATE****ADDRESS**

Sign: <i>Tsunao Araki</i>	Date: January 27, 1999	Address: c/o NKK CORPORATION 1-2, Marunouchi 1-chome, Chiyoda-ku, Tokyo, JAPAN
Type: Tsunao ARAKI	Witness:	
Sign: <i>Kenichi Fukagawa</i>	Date: January 27, 1999	Address: c/o NKK CORPORATION 1-2, Marunouchi 1-chome, Chiyoda-ku, Tokyo, JAPAN
Type: Kenichi FUKAGAWA	Witness:	
Sign: <i>Atsushi Sakai</i>	Date: January 27, 1999	Address: c/o NKK CORPORATION 1-2, Marunouchi 1-chome, Chiyoda-ku, Tokyo, JAPAN
Type: Atsushi SAKAI	Witness:	

**NOTES: MUST BE DATED.**

**WITNESS DESIRABLE.**

**LEGALIZATION NOT REQUIRED.**

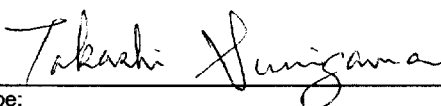
RECORDING OFFICER:

After recording, please return to:

FRISHAUF, HOLTZ, GOODMAN, LANGER & CHICK, P.C.  
767 Third Avenue - 25th Floor, New York, N.Y. 10017-2023  
Tel. No.: (212) 319-4900 Fax No.: (212) 319-5101

**PATENT**  
**REEL: 9763 FRAME: 0993**

## ASSIGNMENT

INVENTOR:SIGNATURE	DATE	RESIDENCE AND POST OFFICE ADDRESS
Sign: 	Date: January 29, 1999	<u>Address:</u> 5-73-8, Hlyoshihoncho, Kohoku-ku, Yokoyama, JAPAN
Type: Takashi SUMIGAMA	Witness:	
Sign:	Date:	Address:
Type:	Witness:	
Sign:	Date:	Address:
Type:	Witness:	
Sign:	Date:	Address:
Type:	Witness:	
Sign:	Date:	Address:
Type:	Witness:	
Sign:	Date:	Address:
Type:	Witness:	
Sign:	Date:	Address:
Type:	Witness:	
Sign:	Date:	Address:
Type:	Witness:	