## 10-19-1999

OVER SHEET No. 980799711 NLY

101147644

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

1. Name of conveying party(ies):

Tsuneo ARAKI Kenichi FUKAGAWA Atsushi SAKAI Takashi SUMIGAMA

- 2. Name and address of redeiving party(ies):
  - 1) NKK Corporation 1-2, Marunouchi 1-chome Chiyoda-ku, Tokyo, JAPAN
  - 2) NIPPON CHUZO KABUSHIKI KAISHA 2-1, Shiraishi-cho Kawasaki-ku, Kawasaki, JAPAN

6-7-99

Leonard Holtz

9/4/92

3. Nature of convey		rect Assignment Reel/Frame: 9763/0992 fourth-named inventor	
Execution Date(s): _	January 27, 1999 (in	ventors 1 - 3); January, 29, 1999 (4th	inventor
			respectively.
	per(s) or patent number(s): s being filed together with a new ap	oplication, the execution date of the application is as follows:	
A. Patent /	Application No. (s)	B. Patent No.(s)	respectively.
09/21	7,562		
	w York, New York 10017-2023 plications and patents involved: $\frac{1}{1}$	7. Total fee (37 CFR 3.41): \$ 40.	
		Amount included with filing fee attached hereto.  X Check enclosed.	
8. To the extent not to	endered by check, authorization is given	to charge the Assignment Fee (37 CFR.341) to Account No. 06-1378.	
9. Statement and sign  To the best o original docum  6/09/1999 DNGUYEN 00	f my knowledge and ballef, the foregoing nent.	40 Fro SR g information is true and correct and any attached copy is a true copy of	the Fle
1 FC:581	40.00 DP		
Dated: <u>June 3</u> ,	1999	By:	
CERTIFICATE OF MAILI I hereby certify thi envelope addressed t	s correspondence is being deposited	Reg. No. 22,974  With the United States Postal Service as First Class mail in lemarks, Washington, D.C. 20231 on the date noted below.	an
Attorney: Toons	<u> </u>	Dated:June 3, 1999	

Total number of pages comprising the Wersheet: REEL: 010171 FRAME: 0712

Forth PTO-1598



## **ER SHEET**

Docket No. <u>980799/LH</u>

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):

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

3. Nature of conveyance:	3. Nature of conveyance: - ASSIGNMENT					
Execution Date(s): JANU	ARY 27, 1999, JANUARY 27, 1999	9, <u>JANUARY 27, 1999</u> ,				
JANUARY 29, 1999,		, respectively.				
4. Application number(s)  If this document is bein	ng filed together with a new applica	tion, the execution date of the application is as follows:				
A. Patent Applic		B. Patent No.(s)				
09/217,	562					
767 Thi New Yo	UF, HOLTZ, GOODMAN, LANGI ird Avenue, 25th Floor irk, New York 10017-2023					
6. Total number of application	ons and patents involved:1	7. Total fee (37 CFR 3.41): \$40.00_				
		[] Amount included with filling fee attached hereto.				
9 7 4		[X] Check enclosed.				
Statement and signature:	-	arge the Assignment Fee (37 CFR.341) to Account No. 06-1378.				
_	knowledge and belief, the foregoing infor	rmation is true and correct and any attached copy is a true copy of the				
01 FC:581	40.00 DP					
Dated: <u>February 12, 1999</u>		By: Leonard Hottz Reg. No. 22,97				
CERTIFICATE OF MAILING						
I hereby certify this corenvelope addressed to: Co	respondence is being deposited with mmissioner of Patents and Trademark	n the United States Postal Service as First Class mail in an ks, Washington, D.C. 20231 on the date noted below.				
Attorney: Leonard Holtz	<b>/</b>	ated: <u>February 12, 1999</u>				
5/95	Total number o	of pages including cover sheet. attachments and document:4				

PATENT REEL: 010171 FRAME: 0713

## **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:  Tunco Araki  Type: Tsuneo ARAKI	Date: January 27, 1999 Witness:	Address: c/o NKK CORPORATION 1-2, Marunouchi 1-chome, Chiyoda-ku, Tokyo, JAPAN
Sign:  Konichi Tukagawa  Type:  Kenichi FUKAGAWA	Date: January 27, 1999 Witness:	Address: c/o NKK CORPORATION 1-2, Marunouchi 1-chome, Chiyoda-ku, Tokyo, JAPAN
Sign:  Atsicshi Sataci  Type: Atsushi SAKAI	Date: January 27, 1999 Witness:	Address:  c/o NKK CORPORATION 1-2, Marunouchi 1-chome, Chiyoda-ku, Tokyo, JAPAN

NOTES: MUST BE DATED.

WITNESS DESIRABLE.

LEGALIZATION NOT REQUIRED.

## **ASSIGNMENT**

INVENTOR:SIGNATURE	DATE	RESIDENCE AND POST OFFICE ADDRESS
Sign:	Date:	Address:
Takashi Yunigama	January 29, 1999	5-73-8, Hiyoshihoncho, Kohoku-ku, Yokoyama, JAPAN
Type: Takashi SUMIGAMA	Witness:	
Takasiii Suiviigaivia		
Sign:	Date:	Address:
Type:	Witness:	
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Sign:	Date:	
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