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Hiroki KAWADA, Tomoji WATANABE, Nobuo TSUMAKI Toshimitsu MIYATA	Name: HITACHI LTD			
Additional name(s) of conveying party(ies) attached? CI Yes CIXNo	Internal Address:			
Production (mailtogs) or controlling partyless allocated 1 C 105 mart	Ü <b>T</b>			
3. Nature of conveyance:				
☐ Assignment ☐ Merger	Street Address: 6, KANDA SURUGADAI 4-CHOME			
☐ Security Agreement ☐ Change of Name	CHIYODA-KU, TOKYO JAPAN			
□ Other	City: State: ZIP:			
Execution Date: May 13, 1998	Additional name(s) & address(es) attached? XXYes C No			
05/28/1998 Shouls 20000009 29083055 4. Application number(s) of patent number(s) 02 FC:561 40.00 0P If this document is being filed together with a new application	May 13, 1998, the execution date of the application is:			
A. Patent Application No.(s)	B. Patent No.(s)			
Additional numbers attached? CI Yes MIXNo				
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:			
Name: ANTONELLI, TERRY, STOUT & KRAUS, LLP	7. Total fee (37 CFR 3.41)\$ 40.00			
Internal Address:	XØ Enclosed			
	Authorized to be charged to deposit account			
Street Address: 1300 NORTH SEVENTEENTH STREET	8. Deposit account number:			
SUITE 1800	01-2135			
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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.  Melvin Kraus  May 22, 1998				
Name of Person Signing 22,466 Signature 3 Date				

 $\Sigma$ ame and Address of Additional Receiving Party:

Name: Kokusai Electric Co., Ltd

Street Address: 14-20, Higashinakano 3-chome, Nakano-ku, Tokyo, Japan

PATENT REEL: 9193 FRAME: 0315

## ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar(\$1.00) or the equivalent thereof, and other good and valuable consideration paid to Hiroki KAWADA, Tomoji WATANABE, Nobuo TSUMAKI, and Toshimitsu MIYATA,

citizens of Japan by HITACHI, LTD., and Kokusai Electric Co., Ltd., corporations organized under the laws of Japan, located at 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan, and 14-20, Higashinakano 3-chome, Nakano-ku, Tokyo, Japan, respectively, receipt of which is hereby acknowledged, we, the said Hiroki KAWADA, Tomoji WATANABE, Nobuo TSUMAKI, and Toshimitsu MIYATA,

do hereby sell and assign to said HITACHI, LTD., and Kokusai Electric Co., Ltd.,

their successors and assigns, all our right, title and interest, in and for the United States of America, in and to "VACUUM HEATING FURNACE"

invented by us and described in the application for United States Letters Patent therefor, executed on even date herewith,

and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extentions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said HITACHI, LTD., and Kokusai Electric Co., Ltd.,

their ixx Successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made,

And we hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of said above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extention, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And we do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said HITACHI, LTD., and Kokusai Electric Co., Ltd.

Signed on the dates indicated aside our signatures:

	INVENTORS (発明者フルネームサイン)	Date Signed (署名日)	Witnesses (立会人サイン)
1)	Hiroki Kawada (Hiroki KAWADA)	May 13, 1998	Jugo Monta
2)	(Tomoji Watarate)	May 13, 1998	Zuzo Morila
3)	(Nobuo TSUMAKI)	May 13, 1998	Jugo Morda
4)	Toshimitan Miyata (Toshimitsu MIYATA	May 13, 1998	Just monta
5)			
	(		
6)			

PATENT REEL: 9193 FRAME: 0316