D 10/12/99		11-01-1999		Docket No.: 503.37673X00			
ORM PTC-1595 31-92	RE	1011883		HEET	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office		
o the Honorable Commiss	ioner of Patents			tached original do	ocuments or copy thereof.		
. Name of conveying party(ies): Hiroyuki HASEGAWA, Toshiki KUROSU, Shigeru UGAYAMA			Name and address of receiving party(ies):     Name: Hitachi, Ltd.     Street Address: 6, Kanda Surugadai 4-chome, Chiyoda-ku				
Additional name(s) of conveying.  Nature of conveyance:  Assignment Security Agreement Other Execution Date: September	☐ Merger ☐ Change o		Country:	okyo: Japan	jc490 U.S. PTO 09/416650		
. Application number(s) or	· patent number(s	s): 09 416650		me(s) & address(es) a	attached? 🔀 Yes 📙 No		
	filed together wi		the execution da	ate of the applicat	ion is: September 13, 1999		
		Additional numbers atta	ched? Yes 📮	No			
. Name and address of par concerning document sho		espondence	6. Total numb	per of applications	and patents involved: 1		
Name: ANTONELLI, T	ERRY, STOUT	& KRAUS, LLP	7. Total fee (3	37 CFR 3.41)	\$40.00		
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Suite 1800

Gregory E. Montone

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Attorney Registration No. 28,141

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)MB No. 0651-0011 (exp. 4/94)

Hitachi Haramachi Electronics Co., Ltd.

ss: 10-2, Benten-cho 3-chome, Hitachi-shi, Ibaraki 317-0072, Japan

PATENT REEL: 010336 FRAME: 0731

## **ASSIGNMENT**

For good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, as a below named inventor, I hereby sell and assign to Hitachi, Ltd. & Hitachi Haramachi Electronics Co., Ltd. 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo 101-8010, Japan of & 10-2, Benten-cho S-chome, Hitachi-shi, Ibaraki 317-0072, Japan its successors and assigns or other legal representatives all my rights, title and interest, in and for the United States of America, in and to

TEMPERATURE SENSING CIRCUIT FOR VOLTAGE DRIVE TYPE SEMICONDUCTOR DEVICE AND TEMPERATURE SENSING METHOD THEREFOR, AND DRIVE DEVICE AND VOLTAGE DRIVE TYPE SEMICONDUCTOR DEVICE USING THE SAME

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the 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, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

		(Full	(Full Name)		(Signature)	
1)	Date September 13, 1999 Inventor	Hiroyuki	Hasegawa	Hiroyuki	Hojegawa.	
-,	Residence Same as Post Office					
	Post Office Address 6-8, Ose-cho					
2)	Date September 13, 1999 Inventor	Toshiki	Kurosu	Zoshili	Kyon	
	Residence Same as Post Office	Address		Citizenship Japan		
	Post Office Address 16-5, Suwa-che	4-chome, h	Hitachi-shi	, Ibaraki 316-000	01, Japan	
3)	Date September 13, 1999 Inventor	Shigeru	Sugayama	Shigeru.	Mayama	
- /	Residence Same as Post Office	Address		Citizenship Japan		
	Post Office Address 18-7, Omika-ch	no 4-chome,	Hitachi-sh	i, Ibaraki 319-12	221, Japan	
4)	DateInventor					
,	Residence					
	Post Office Address					
5)	DateInventor					
	Residence					
	Post Office Address					
Wit	iness(es)					
**10	All) Mari Yamagata 2)_			4)		
•	/ /					
	1)3)			.5)		

RECORDED: 10/12/1999

PATENT REEL: 010336 FRAME: 0732