

*Handwritten:* REC 02499

04-07-1999



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To the Honorable Commissioner of Patents and Trademarks. **101004801** Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
Masaru NODA, Takashi TAKEUCHI, Shinji TANAKA,  
Mitsunori TSUCHIYA, Takeshi YAMAGUCHI

2. Name and address of receiving party(ies):  
Name: Hitachi, Ltd.  
Street Address: 6, Kanda Surugadai 4-chome, Chiyoda-ku

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

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

City: Tokyo:

Country: Japan

Execution Date: March 2, 1999

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

*Vertical stamp:* JC526 U.S. PTO  
09/27/027  
03/24/99

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: March 2, 1999

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: ANTONELLI, TERRY, STOUT & KRAUS, LLP

Internal Address:

Street Address: 1300 North Seventeenth Street  
Suite 1800

City: Arlington State: VA Zip: 22209

6. Total number of applications and patents involved: 1

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

Enclosed  
 Any deficiencies may be charged to deposit account  
 Authorized to be charged to deposit account

8. Deposit account number: 01-2135

(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.*

Melvin Kraus \_\_\_\_\_

Name of Person Signing

*Handwritten signature: Melvin Kraus*

Signature

March 24, 1999 \_\_\_\_\_

Date

Attorney Registration No. 29,621

Total number of pages including cover sheet, attachments, and document: 3

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

Name: Hitachi Maxell, Ltd

Address: 1-88, Ushitora-1-Chome, Ibaraki-shi, Osaka, Japan

Name: Hitachi ULSI Systems Co., Ltd.

Address: 22-1, Josuihoncho 5-chome, Kodaira-shi, Tokyo, Japan

# ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar(\$1.00) or the equivalent thereof, and other good and valuable consideration paid to Masaru NODA, Takashi TAKEUCHI, Shinji TANAKA, Mitsunori TSUCHIYA, and Takeshi YAMAGUCHI,

citizens of Japan by HITACHI, LTD., Hitachi Maxell, Ltd., and Hitachi ULSI Systems Co., Ltd., corporations organized under the laws of Japan,

located at 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan, 1-88, Ushitora-1-chome, Ibaraki-shi, Osaka, Japan, and 22-1, Josuihoncho 5-chome, Kodaira-shi, Tokyo, Japan, respectively,

receipt of which is hereby acknowledged, we, the said Masaru NODA, Takashi TAKEUCHI, Shinji TANAKA, Mitsunori TSUCHIYA, and Takeshi YAMAGUCHI,

do hereby sell and assign to said HITACHI, LTD., Hitachi Maxell, Ltd., and Hitachi ULSI Systems Co., Ltd.,

their successors and assigns, all our right, title and interest, in and for the United States of America, ~~in~~ in and to "A MEANS FOR DETECTING THE INTEGRATED VALUE OF CURRENT FLOW, A MEANS FOR DETECTING THE VALUE OF CURRENT FLOW AND A BATTERY PACK EMPLOYING THOSE MEANS"

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., Hitachi Maxell, Ltd., and Hitachi ULSI Systems Co., Ltd.,

their 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., Hitachi Maxell, Ltd., and Hitachi ULSI Systems Co., Ltd.

Signed on the dates indicated aside our signatures:

| INVENTORS<br>(発明者フルネームサイン)                           | Date Signed<br>(署名日) | Witnesses<br>(立会人サイン)  |
|--|----------------------|------------------------|
| 1) <u>Masaru Noda</u><br>(Masaru NODA)               | March 2, 1999        | <u>Yasuji Moriyama</u> |
| 2) <u>Takashi Takeuchi</u><br>(Takashi TAKEUCHI)     | March 2, 1999        | <u>Yasuji Moriyama</u> |
| 3) <u>Shinji Tanaka</u><br>(Shinji TANAKA)           | March 2, 1999        | <u>Yasuji Moriyama</u> |
| 4) <u>Mitsunori Tsuchiya</u><br>(Mitsunori TSUCHIYA) | March 2, 1999        | <u>Yasuji Moriyama</u> |
| 5) <u>Takeshi Yamaguchi</u><br>(Takeshi YAMAGUCHI)   | March 2, 1999        | <u>Yasuji Moriyama</u> |
| 6) _____<br>( )                                      | _____                | _____                  |
| 7) _____<br>( )                                      | _____                | _____                  |
| 8) _____<br>( )                                      | _____                | _____                  |