

12-17-2002

Docket No.: XA-9786

FORM PTO-1595 (Modified)  
(Rev. 03-01)  
OMB No. 0651-0027 (exp. 5/31/2002)  
P08A/REV03

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office



102313868

Tab settings

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

1. Name of conveying party(ies):

Takanori YAMAZOE  
Hiroshi YOSHIGI  
Takeo KANAI

12-12-02

Additional names(s) of conveying party(ies)  Yes  No

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

Name: Hitachi, Ltd.

Address: 6, Kanda Surugadai

4-chome

City: Chiyoda-ku

State/Prov.: Tokyo

Country: Japan

ZIP:

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

JC759 U.S. PTO  
10/31/08  
12/12/02

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other

Execution Date: 11/1/02, 11/5/02, 11/7/02

4. Application number(s) or patent numbers(s):

10,317087

If this document is being filed together with a new application, the execution date of the application is:

Patent Application No. Filing date

B. Patent No.(s)

*(Handwritten scribbles)*

Additional numbers

Yes  No

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

Name: Mitchell W. Shapiro

Registration No. 31,568

Address: Miles & Stockbridge P.C.

1751 Pinnacle Dr., Suite 500

City: McLean State/Prov.: VA

Country: U.S. ZIP: 22102-3833

6. Total number of applications and patents involved:

1

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

Enclosed - Any excess or insufficiency should be credited or debited to deposit account

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8. Deposit account number:

50-1165

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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.

Mitchell W. Shapiro

*(Handwritten signature)*

December 12, 2002

Name of Person Signing

Signature

3

Date

Total number of pages including cover sheet, attachments, and

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PATENT  
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Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1)	<input type="text"/>	Execution Date Month Day Year	<input type="text"/>
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Name (line 1)	<input type="text"/>	Execution Date Month Day Year	<input type="text"/>
Name (line 2)	<input type="text"/>		
Name (line 1)	<input type="text"/>	Execution Date Month Day Year	<input type="text"/>
Name (line 2)	<input type="text"/>		

**Receiving Party(ies)**

Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1)	<input type="text" value="Hitachi ULSI Systems Co., Ltd."/>			<input type="checkbox"/> If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)
Name (line 2)	<input type="text"/>			
Address (line 1)	<input type="text" value="22-1, Josuihoncho 5-chome"/>			
Address (line 2)	<input type="text" value="Kodaira-shi"/>			
Address (line 3)	<input type="text" value="Tokyo"/> City	<input type="text" value="Japan"/> State/Country	<input type="text"/> Zip Code	<input type="checkbox"/> If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)
Name (line 1)	<input type="text"/>			
Name (line 2)	<input type="text"/>			
Address (line 1)	<input type="text"/>			
Address (line 2)	<input type="text"/>			
Address (line 3)	<input type="text"/> City	<input type="text"/> State/Country	<input type="text"/> Zip Code	

**Application Number(s) or Patent Number(s)**

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Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

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**ASSIGNMENT**  
( 譲 渡 証 )

As a below named inventor, I hereby declare that :

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to the below named inventor(s), citizens of Japan by HITACHI, 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, and 22-1, Josuihoncho 5-chome, Kodaira-shi, Tokyo, Japan, respectively, receipt of which is hereby acknowledged, we, the below named inventor(s), do hereby sell and assign to said HITACHI, 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 and to

NON-VOLATILE SEMICONDUCTOR MEMORY ARRAY AND METHOD OF READING THE SAME MEMORY ARRAY

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 extensions 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 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, extension, 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 HITACHI ULSI SYSTEMS CO., LTD.

Signed on the date(s) indicated aside signatures:

INVENTOR(S) (発明者フルネームサイン)	Date Signed (署名日)
1) <u>Takanori Yamazoe</u>	<u>11/1/2002</u>
2) <u>Hiroshi Yoshizumi</u>	<u>11/5/2002</u>
3) <u>Takeo Icaru</u>	<u>11/7/2002</u>
4) _____	_____
5) _____	_____
6) _____	_____
7) _____	_____
8) _____	_____
9) _____	_____
10) _____	_____