

07-30-1998

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HALO98-001

100780552

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

1. Name of conveying party(ies)

SEIKI OGURA AND TOMOKO OGURA

*NRD*  
*7-22-98*

2. Name and address of receiving party(ies)

Name Halo LSI Design & Device Technology, Inc.

Internal Address

Street Address

140 Old Hopewell Road  
City: Wappingers Falls State: NY  
Zip: 12690

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

3. Nature of conveyance

- Assignment  Merger
- Security Agreement  Change of Name
- other \_\_\_\_\_

Execution Date: 7/16/98

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

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

*09/120,361*

If this document is being filed together with a new application, the execution date of the application is: 7/16/98

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: GEORGE O. SAILE

Internal Address \_\_\_\_\_

Street Address 20 MCINTOSH DRIVE

City: POUGHKEEPSIE State NY ZIP 12603

6. Total no. of applications and patents involved: 1

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

Enclosed

Authorized to be charged to deposit acct.

8. Deposit account number 19-0033

(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

GEORGE O. SAILE

07/29/1998 SAILE, GEORGE O. 190033  
Signature of Person Signing

03 FC:581

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*George O Saile* 7/20/98  
Signature Date

Total number of pages comprising cover sheet

3

PATENT

REEL: 9343 FRAME: 0648

U.S. PTO  
09/120361  
07/22/98

For  U.S. and/or  Foreign Rights

For  Application or  U.S. Patent

By  Inventor(s) or  Present Owner

### ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

#### ASSIGNOR

SEIKI OGURA  
Type or print name of ASSIGNOR  
140 Old Hopewell Road  
Address  
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JAPAN  
Nationality

TOMOKO OGURA  
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Nationality

#### ASSIGNEE

**Halo LSI Design & Device Technology, Inc.**  
**140 Old Hopewell Road**  
**Wappingers Falls, N.Y. 12590**  
**Usa**  
Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

*(complete one of the following)*

- the entire right, title and interest  
 an undivided \_\_\_\_\_ percent (\_\_\_\_%) interest for the United States and its territorial possessions  
*(check the following box if foreign rights are also to be assigned)*  
 and in all foreign countries

in and to any and all improvements which are disclosed in the invention entitled:

**Fast, Low Current Program With Auto-Program For Flash Memory**

and which is found in

- (a)  U.S. patent application executed on even date herewith
- (b)  U.S. patent application executed on \_\_\_\_\_
- (c)  U.S. application serial no. \_\_\_\_\_ filed on \_\_\_\_\_
- (d)  U.S. patent no. \_\_\_\_\_ issued \_\_\_\_\_  
*(also check (e) if foreign application(s) is also being assigned)*
- (e)  and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute, thereof, and as to letters patent any re-issue or re-examination thereof.

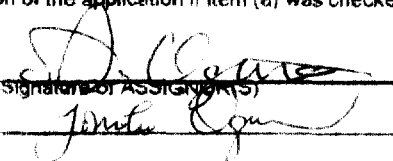
ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof

IN WITNESS WHEREOF, I / We have signed this

7/15/92 (Date of signing)

WARNING Date of signing must be the same as the date of execution of the application if item (a) was checked above:

  
 \_\_\_\_\_  
 Signature of Assignor(s)  
 \_\_\_\_\_  
 \_\_\_\_\_

If ASSIGNOR is a legal entity complete the following information

\_\_\_\_\_  
Type or print the name of the above person authorized to sign on behalf of ASSIGNOR

\_\_\_\_\_  
Title

Note: No witnessing, notarization or legalization is necessary, if the assignment is notarized or legalized then it will only be prima facie evidence (35 USC 261). Use next page if notarization is desired

\_\_\_\_\_  
Notarization or Legalization Page Added