

**PATENT ASSIGNMENT**

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| SUBMISSION TYPE:   | NEW ASSIGNMENT                   |
| NATURE OF CONVEYANCE:  | ASSIGNMENT                       |
| CONVEYING PARTY DATA   |                                  |
| Name   | Execution Date                   |
| Peter B. Gillingham  | 07/10/2002                       |
| RECEIVING PARTY DATA   |                                  |
| Name:  | MOSAID TECHNOLOGIES INCORPORATED |
| Street Address:  | P.O. Box 13579                   |
| City:  | Kanata, Ontario                  |
| State/Country:   | CANADA                           |
| Postal Code:   | K2K 1X6                          |
| PROPERTY NUMBERS Total: 1  |                                  |
| Property Type  | Number                           |
| Patent Number:   | 5708619                          |
| CORRESPONDENCE DATA  |                                  |
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| ATTORNEY DOCKET NUMBER:  | 08-531-US-CON                    |
| NAME OF SUBMITTER:   | Robert J. Irvine III             |
| Total Attachments: 1<br>source=08-531-US-CON_Assignment#page1.tif                    |                                  |

CH \$40.00 5708619

ASSIGNMENT AND AGREEMENT

For value received, I PETER B. GILLINGHAM  
whose full post office address is 116 Palomino Drive,  
Kanata, Ontario,  
Canada, K2M 1N4  
hereby sell, assign and transfer to MOSAID TECHNOLOGIES  
INCORPORATED  
whose full post office address is P.O. Box 13579,  
Kanata, Ontario,  
Canada, K2K 1X6  
and its successors, assigns and legal representatives, the  
entire right, title and interest, for all countries, in and to  
certain inventions relating to  
COLUMN REDUNDANCY SCHEME FOR HIGH-DENSITY DRAM  
contained in an application for letters patent of  
UNITED STATES  
executed concurrently herewith, all rights and privileges  
including priority rights arising from the application  
aforesaid and corresponding applications in other countries,  
all continuations, continuations-in-part, divisions, renewals,  
substitutes or reissues thereof, and all the rights and  
privileges under any and all letters patent that may be  
granted for said inventions.

I request that any and all patents for said  
inventions may be issued to said assignee, its successors,  
assigns and legal representatives, or to such nominees as it  
may designate.

I agree that, when requested, I will, without  
charge to said assignee but at its expense, sign all papers,  
take all rightful oaths, and do all acts which may be  
necessary, desirable or convenient for claiming said priority  
rights and for securing and maintaining patents for said  
inventions in any and all countries and for vesting title  
thereto in said assignee, its successors, assigns and legal  
representatives or nominees.

I covenant with said assignee, its successors,  
assigns and legal representatives, that the rights and  
property herein conveyed are free and clear of any  
encumbrance, and that I have full right to convey the same as  
herein expressed.

EXECUTED AT ... *N. York, Ontario, Canada.*  
this ... *12th* ... day of *July* .....  
199*7*.  
*E. E. Paul*

*Peter B. Gillingham*  
.....  
Peter B. Gillingham

Witness:

..... *E. E. Paul* .....