

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Mitsuru NAKURA</td> <td>02/28/2012</td> </tr> <tr> <td>Nobuyoshi AWAYA</td> <td>02/28/2012</td> </tr> <tr> <td>Kazuya ISHIHARA</td> <td>02/28/2012</td> </tr> </tbody> </table>		Name	Execution Date	Mitsuru NAKURA	02/28/2012	Nobuyoshi AWAYA	02/28/2012	Kazuya ISHIHARA	02/28/2012
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Mitsuru NAKURA	02/28/2012								
Nobuyoshi AWAYA	02/28/2012								
Kazuya ISHIHARA	02/28/2012								
RECEIVING PARTY DATA									
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Postal Code:	545-8522								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13416144</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13416144				
Property Type	Number								
Application Number:	13416144								
CORRESPONDENCE DATA									
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NAME OF SUBMITTER:	H. Warren Burnam, Jr.								
Total Attachments: 2 source=4494-68_ASSGN#page1.tif source=4494-68_ASSGN#page2.tif									

OP \$40.00 13416144

# ASSIGNMENT OF PATENT APPLICATION

(Inventors) Mitsuru NAKURA  
Nobuyoshi AWAYA  
Kazuya ISHIHARA

(Assignee) In consideration of the sum of one dollar (\$1.00) and other good and valuable  
(Address) considerations paid to each of the undersigned, the undersigned agree(s) to assign,  
and hereby does assign, transfer and set over to  
SHARP KABUSHIKI KAISHA  
(of 22-22 , Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522 Japan  
(hereinafter designated as the Assignee) the undersigned's entire right, title and  
interest for the United States, its territories, dependencies and possessions, and for  
the country of  
(Other in the invention, and all application for patent and any Letters Patent which  
Countries) may be granted therefore, known as  
(Title) SEMICONDUCTOR MEMORY DEVICE  
(Case No. - )  
for which the undersigned has (have) executed on even date herewith an application  
for patent in the United States of America or, if not on even date, then has executed  
(on or has already filed in  
(U.S. appln. Serial No. , filed on ).  
The undersigned acknowledges an obligation of assignment of this invention to said  
assignee at the time the invention was made.

The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Date <u>February 28, 2012</u>	Signature of inventor	( <u>Mitsuru Nakura</u> Mitsuru NAKURA
Date <u>February 28, 2012</u>	Signature of inventor	( <u>Nobuyoshi Awaya</u> Nobuyoshi AWAYA
Date <u>February 28, 2012</u>	Signature of inventor	( <u>Kazuya Ishihara</u> Kazuya ISHIHARA
Date _____	Signature of inventor	( _____
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Witnessed by: _____	Date _____
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