

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Nobuyoshi AWAYA	08/18/2009
Takashi NAKANO	08/21/2009
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SHARP KABUSHIKI KAISHA
<b>Street Address:</b>	22-22, Nagaïke-cho, Abeno-ku
<b>City:</b>	Osaka-shi, Osaka
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	545-8522
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12563349
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(703)816-4100
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Phone:</b>	703-816-4000
<b>Email:</b>	js@nixonvan.com
<b>Correspondent Name:</b>	H. Warren Burnam, Jr.
<b>Address Line 1:</b>	NIXON & VANDERHYE, PC
<b>Address Line 2:</b>	901 NORTH GLEBE ROAD, 11TH FLOOR
<b>Address Line 4:</b>	ARLINGTON, VIRGINIA 22203
<b>ATTORNEY DOCKET NUMBER:</b>	4494-45
<b>NAME OF SUBMITTER:</b>	H. Warren Burnam, Jr.
<b>Total Attachments: 2</b> source=4494-45_ASSIGNMENT#page1.tif source=4494-45_ASSIGNMENT#page2.tif	

OP \$40.00 12563349

**500967401**

**PATENT**  
**REEL: 023258 FRAME: 0036**

# ASSIGNMENT OF PATENT APPLICATION

(Inventors)      Nobuyoshi AWAYA  
Takashi NAKANO

(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,  
SHARP KABUSHIKI KAISHA      and hereby does assign, transfer and set over to  
(of 22-22 , Nagaïke-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>2009/8/18</u>	Signature of inventor	( <u>Nobuyoshi Awaya</u> Nobuyoshi AWAYA
Date	<u>2009/8/21</u>	Signature of inventor	( <u>Takashi Nakano</u> Takashi NAKANO
Date	_____	Signature of inventor	( _____
Date	_____	Signature of inventor	( _____
Date	_____	Signature of inventor	( _____
Date	_____	Signature of inventor	( _____
Date	_____	Signature of inventor	( _____
Date	_____	Signature of inventor	( _____
Date	_____	Signature of inventor	( _____
Date	_____	Signature of inventor	( _____
Date	_____	Signature of inventor	( _____
Date	_____	Signature of inventor	( _____
Date	_____	Signature of inventor	( _____

Witnessed by: \_\_\_\_\_

Date \_\_\_\_\_

Witnessed by: \_\_\_\_\_

Date \_\_\_\_\_

Witnessed by: \_\_\_\_\_

Date \_\_\_\_\_