FORM PTO-1595 (Modified)
(Rev. 6-93)
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HA, Heon-jae

1. Name of conveying party(ies):

## 05-21-1999



U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office



Tab settings → → → To the Honorable Commissioner of Patents ....

PARK, Chun-yong

101042618

Considered original documents or copy thereof. 2. Name and address of receiving party(ies): Name: SAMSUNG ELECTRONICS CO. LTD.

Docket No.: SEC.469

SON, Hong-seong		Name: SAMSUNG ELECTRONICS CO., LTD.			
HONG, Young-ki SONG, Jae-inh		Address: 416, Maetan-dong, Paldal-gu,			
Additional names(s) of conveying party(ies)	☐ Yes 🛛 No		30691		
3. Nature of conveyance:			Q .		
☑ Assignment	☐ Merger		JC5.		
☐ Security Agreement	☐ Change of Name	City: Suwon-city, Kyungki-do	State/Prov.:		
☐ Other		Country: Republic of Korea	ZIP:		
Execution Date: April 26, 1999		Additional name(s) & address(es)	□ Yes ⊠ No		

09/306,917 4. Application number(s) or registration numbers(s): If this document is being filed together with a new application, the execution date of the application is: April 26, 1999

Additional numbers

Patent Application No. Filing date B. Patent No.(s)

☐ Yes 🛛 No

5. Name and address of party to whom correspondence concerning document should be mailed:						
Name: RAYMOND C. JONES						
Registration No. 34,631						
Address: JONES VOLENTINE, LLP						
12200 SUNRISE VALLEY DRIVE, SUITE 150						
City: RESTON	State/Prov.: VA					

ZIP: 20191

6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41):....\$ 40.00 Enclosed - Any excess or insufficiency should be credited or debited to deposit account

Authorized to be charged to deposit account 8. Deposit account number:

50-0238

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9. Statement and signature.

Country: U.S.A.

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.

RAYMOND C. JONES

Name of Person Signing

Total number of pages including cover sheet, attachments, and

Sign

hature

MAY 7, 1999

Date

PATEN.

JONES VOLENTINE, L.L.P. (1/97)

## **ASSIGNMENT**

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned

Heon-jae HA

Insert Name(s) of Inventor(s)

Hong-seong SON

Young-ki HONG

Jae-inh SONG and Chun-yong PARK

the undersigned hereby sell(s) and assign(s) to

Insert Name(s) of Assignee(s)

SAMSUNG ELECTRONICS CO., LTD.

Address

of 416, Maetan-dong, Paldal-gu, Suwon-city, Kyungki-do, Republic of Korea

(hereinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as PRE-TREATMENT METHOD PERFORMED ON A SEMICONDUCTOR STRUCTURE BEFORE FORMING HEMI-SPHERICAL GRAINS OF CAPACITOR STORAGE NODE

Title of Invention

Date of Signing of Application

for which an application for patent in the United States of America has been executed by the undersigned

## on April 26, 1999

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned agree(s) to execute all papers and documents and 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 Patents of the United States resulting from said application or any division or divisions or continuing or reissue 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.

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PATENT REEL: 009955 FRAME: 0751

membe may be docume	rs of the firm of JONES & necessary or desirable	& VOLENTINE, L.L	.P. the power to in	sert on this	and Adam C. Volentine, Reg. No. 33,2 assignment any further identification whatates Patent Office for recordation of the second	ich
	In witness whereof, ex	ecuted by the under	signed on the date	e(s) opposite	e the undersigned name(s).	
Date	99. 4.26	, Name of Inventor	Heon-To	ie HA		
Date _	99.420	Name of Inventor	Heon-jae HA	CON		
Date _	99.4.26	Name of Inventor	Hong-seong SON	T HONG	T	
Date	.99 4.26	_, Name of inventor	Young-ki HONG	Calle	7 ?K	
Date _	06 11 2 6	_, Name of Inventor	Jae-inh SONG	JONEI DAI		
Date _	77.4.20	_, Name of Inventor	<u> </u>	ng Phr		
	record an Assignment e		n acknowledged an	d/or recorde		to
	witness					
		ACK	NOWLEDG	MENT		
		} ss				
	This	day of			9, before me	
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	personally known as the ited the same of his (their)				, who did acknowledge to me that he (th	ey)
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Applic	ant Reference No.:	SS-11751-US	Atty Docke	t No.:	SEC.469	
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