

MRD 6-17-99  
BOX ASSIGNMENTS

06-21-1999

DO NOT USE FOR TRADEMARKS



101071704

TO THE ASSISTANT COMMISSIONER OF PATENTS AND TRADEMARKS:  
SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

## 1. NAME OF CONVEYING PARTY(IES) (ASSIGNOR(S)):

1. Suk-ho JOO  
3. Ki-hong LEE

2. Choong-ryul PAIK

5.  
7.4.  
6.  
8.ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO

## 2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: SAMSUNG ELECTRONICS CO., LTD.

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

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO

## 3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)☒ ASSIGNMENT OF ☒ WHOLE ☐ PART INTEREST☐ CHANGE OF NAME ☐ ACCURATE TRANSLATION☐ SECURITY ☐ MERGER ☐ OTHER:

EXEC. DATE: 1) April 14, 1996; 2) June 11, 1996; 3) April 15, 1996

EXECUTION DATE(S) ON THE DECLARATION IF FILED HERewith: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!)

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NOA. PAT. APP. NO.(S)  
series code/serial  
no

M#

1<sup>st</sup> INVENTOR  
if not in item 1

B. PATENT NO(S)

M#

1<sup>st</sup> INVENTOR  
if not in item 1

08/960,290

242990

5. Name & Address of Party to Whom Correspondence  
Concerning Document Should be Mailed:Pillsbury Madison & Sutro LLP  
Intellectual Property Group  
1100 NEW YORK AVENUE, N.W.  
NINTH FLOOR, EAST TOWER  
WASHINGTON, D.C. 20005-3918

6. NUMBER INVOLVED:

APPLNS 1 + PATS \_\_\_\_\_ = TOTAL 1

7. AMOUNT OF FEE ENCLOSED: (Code 581)

ABOVE TOTAL x \$40 = \$40

5.5 ATTY DKT:

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE  
INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975

PMS 242990

SS-6117-US-DIV

UNDER ORDER NO

41673

242990

MATTER NO.

CLIENT REF.

dup. sheet not required

CLIENT NO.

MATTER NO.

## 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.

Signature

10. Total number of pages including this  
cover sheet, attachments and document  
(do not file dup. Cover sheet)

2

Attorney: Kevin E. Joyce

Reg. No. 20508

Date: June 17, 1999

Atty/Sec: KEJ/rah

TEL: (202) 861-3050

FAX: (202) 822-0944

FILE WITH PTO RETURN RECEIPT (PAT-103A)

06/18/1999 NTHAI1 00000171 08960290

01 FC:581

40.00 CP

PATENT  
REEL: 010029 FRAME: 0245

PAT-114X 1/99

USA Patent Appln.  
Sole or Joint

Atty. Dkt.

For Inventions made outside USA,  
executed with or after application.

222410

SS-6117-US

M#

Client Ref.

NONPROVISIONAL

# ASSIGNMENT OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT  
NAME(S) OF  
INVENTOR(S)

(1) Suk-ho JOO	(4)
(2) Choong-ryul PAIK	(5)
(3) Ki-hong LEE	[ ] x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT  
NAME(S) OF  
ASSIGNEE(S)  
& ADDRESS(ES)

SAMSUNG ELECTRONICS CO., LTD.  
416, Maetan-dong, Paldal-gu, Suwon-city  
Kyungki-do, Republic of Korea

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF  
INVENTION

MOS TRANSISTOR ADOPTING TITANIUM-CARBON-NITRIDE GATE ELECTRODE AND  
MANUFACTURING METHOD THEREOF

for which the undersigned executed an application for Letters Patent of the United States of America:

NOTE →→  
(Complete  
line A, B and/or C)

(A) ☐ even date herewith

(B) ☐ on

(C) ☒ in U.S. Appln. No. 08 / filed March 21, 1996

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE.


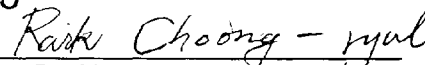
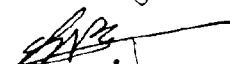
AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE →→ The undersigned hereby authorize(s) Cushman Darby & Cushman, L.L.P. of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTOR(S)

DATE SIGNED

WITNESSES

1)		APR. 14, 1996	
Name:	Suk-ho JOO		
2)		June 11, 1996	
Name:	Choong-ryul PAIK		
3)		APR. 15, 1996	
Name:	Ki-hong LEE		
4)			
Name:			
5)			
Name:			

IF ADDITIONAL INVENTORS, check box ☐ and continue on page 2.