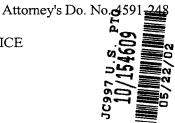
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'K OFFICE



PATENT APPLICATION

BOX PATENT APPLICATION Assistant Commissioner for Patents Washington, D.C. 20231

Please record the attached original document or copy thereof and return the recorded instrument to the undersigned.

1	Mama	of norty	(iac)	conveying a	n interest:
1.	Ivallie	or party	(les)	conveying a	ii iiiiciesi.

Ki-Sang KIM

2. Name and address of party(ies) receiving an interest: Samsung Electronics Co., Ltd.

416 Maetan-dong, Paldal-ku, Suwon-City

Kyungki-do KOREA

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2	Decerintion	of the interest	oontrotted.
. 5.	17686111111111	OI THE INTELEST	Conveyeu.

Security Agreement Merger

Date of execution of attached document: April 30, 2002

4. Application number(s) or patent number(s). Additional sheet attached? Yes No

If this document is being filed together with a new application, the execution date of the application is: May 22, 2002

A. Patent Application No.

B. Patent No.

Name and address of party to whom correspondence concerning document should be mailed: 5.

MARGER JOHNSON & McCOLLOM, P.C.

1030 S.W. Morrison Street Portland, Oregon 97205 Telephone: (503) 222-3613

- 6. Number of applications and patents involved: 1
- 7. PTO Form 2038 authorizing credit card payment (\$40) is enclosed.
- 8. Any deficiency or overpayment should be charged or credited to deposit account number 13-1703.
- 9. 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.

Dated: May 22, 2002

23/2002 <mark>JBALINAN 00000036 10154609</mark>

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40.00 OP

Respectfully submitted,

MARGER JOHNSON & McCOLLOM, P.C.

Alan T. McCollom

Reg. No. 28,881

MARGER JOHNSON & McCOLLOM, P.C. 1030 SW Morrison Street Portland, OR 97205 (503) 222-3613

Total number of pages comprising cover sheet and attached assignment: 3



PATENT REEL: 017601 FRAME: 0438 (1) Ki-Sang KIM

PATENT APPLICATION Atty's Do. No. 4591-248 Koryo Ref. No.:IE11051-US

ASSIGNMENT

U.S.A. Patent Application
Sole or Joint
For Inventions Made Outside U.S.A.
Executed With Application

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

(1) In Dang ILL	X if continued on separate page

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

SAMSUNG ELECTRONICS CO., LTD. 416 MAETAN-DONG, PALDAL-KU 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. §1.00, in and to the invention known as:

SEMICONDUCTOR FABRICATION APPARATUS HAVING FOUP INDEX IN APPARATUS INSTALLATION AREA

for which an application for Letters Patent of the United States of America has been executed even date herewith by the undersigned, and in and to any and all divisionals, continuations, substitutes, and reissues thereof; and all resulting patents and the undersigned hereby authorizes and requests the United States Assistant Commissioner of Patents to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agrees that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

And the undersigned hereby agrees 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.

PATENT REEL: 017601 FRAME: 0439

RECORDED: 02/27/2006