

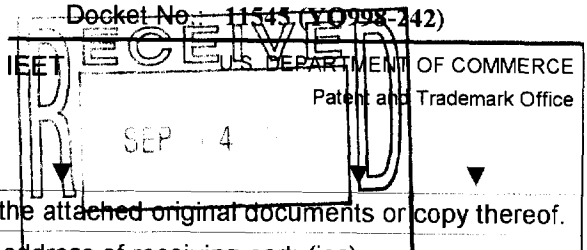
09-18-1998

Docket No. 11545 (10998-242)

FORM PTO-1595 (Modified)
(Rev. 6-93)
OMB No. 0851-0011 (exp. 4/94)
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Tab settings

9-14-98

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

- 1. Hussein Ibrahim Hanafi
- 2. Young Hoon Lee
- 3. Hsingjen Wann

Additional names(s) of conveying party(ies) Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: 1.8/18/98; 2.8/25/98; and 3.8/18/98

2. Name and address of receiving party(ies):

Name: International Business Machines Corporation

Internal Address:

Street Address: New Orchard Road

City: Armonk State: NY ZIP: 10504

Additional name(s) & address(es) attached? Yes No

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:

A. Patent Application No.(s)

09/136,325
filed 8/19/98

09136325

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Richard L. Catania

Internal Address: Scully, Scott, Murphy & Presser

Street Address: 400 Garden City Plaza

City: Garden City State: NY ZIP: 11530

6. Total number of applications and patents involved:

1

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:

50-0510/IBM (Yorktown)

09/18/1998 JSHADAZZ 00000005 500510 09136325

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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.

Leopold Presser

Name of Person Signing

Signature

September 10, 1998

Date

Total number of pages including cover sheet, attachments, and document:

3

(JOINT FORM)
(MORE THAN TWO)

Assignment

Whereas, we

Inventor
and City

(1) **Hussein Ibrahim Hanafi**
County of **Somerset**

of **Basking Ridge**
and State of **New Jersey**

and (2) **Young Hoon Lee**
County of **Westchester**

of **Somers**
and State of **New York**

and (3) **Hsinjen Wann**
County of **Westchester**

of **Briarcliff Manor**
and State of **New York**

have invented certain improvements in

TITLE

METHODS FOR MAKING HIGH-ASPECT RATIO HOLES IN SEMICONDUCTOR AND ITS APPLICATION TO A GATE DAMASCENE PROCESS FOR SUB-0.05 μM MOSFETS

and executed, respectively, a United States patent application therefor on
DATES THAT (1) *August 18,* 1998, and (2) *August 25* 1998, and (3) *August 18,* 1998.
INVENTORS
SIGNED THE
DECLARATION

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM) desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Signed and sealed
CITY (1) at *Yorktown Heights, NY* _____ SIGNATURE
DATE on *August 18,* 1998, (**Hussein** **I.** **Hanafi**) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed
CITY and (2) at *Yorktown Heights, NY* _____ SIGNATURE
DATE on *August 25* 1998, (**Young** **H.** **Lee**) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

Signed and sealed
CITY and (3) at *Yorktown Heights, NY* _____ SIGNATURE
DATE on *August 18,* 1998, (**Hsinjen** **H.J.W.** **Wann**) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

State of *New York*) SS.:
County of *Westchester*)

INVENTOR
(1)

On this *18th* day of *August* 1998, before me personally came **Hussein Ibrahim Hanafi** to me personally known, and known to me to be the person described in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed.

Wendy R Petrovich

Notary
WENDY R. PETROVICH
Notary Public, State of New York
No. 01R15042058
Qualified in Westchester County
Commission Expires April 17, *1999*

State of *New York*) SS.:
County of *Westchester*)

INVENTOR
(2)

On this *25th* day of *August* 1998, before me personally came **Young Hoon Lee** to me personally known, and known to me to be the person described in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed.

Wendy R Petrovich

Notary
WENDY R. PETROVICH
Notary Public, State of New York
No. 01R15042058
Qualified in Westchester County
Commission Expires April 17, *1999*

State of *New York*) SS.:
County of *Westchester*)

INVENTOR
(3)

On this *18th* day of *August* 1998, before me personally came **Hsinjen Wann** to me personally known, and known to me to be the person described in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed.

Wendy R Petrovich

Notary
WENDY R. PETROVICH
Notary Public, State of New York
No. 01R15042058
Qualified in Westchester County
Commission Expires April 17, *1999*