

RI



ET

FI 998162

101112619

Handwritten: 1/30/99

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

<p>1. Name of conveying parties: (1) Kai Chen, (2) Scott W. Crowder, (3) Liang-Kai Han, (4) Michael J. Hargrove, (5) Kam-Leung Lee, (6) Hung Y. Ng.</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>3. Nature of Conveyance: Assignment</p> <p>Execution Dates: <u>7/21; 7/30; 7/27; 7/19; 7/22; 7/23/99</u></p>	<p>2. Name and address of receiving party(ies): Name: <u>International Business Machines Corporation</u> Street Address: <u>New Orchard Road</u> City: <u>Armonk</u> State: <u>New York</u> ZIP: <u>10504</u></p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
---	---

Vertical stamp: J917 U.S. PTO 09/30/99 07/30/99

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is: 7/21/99; 7/30/99; 7/27/99; 7/19/99; 7/22/99; 7/23/99

A. Patent Application Number(s) _____ B. Patent Number(s) _____

Additional number(s) attached? YES NO

<p>5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Kevin R. Casey</u></p> <p>Internal Address: <u>Ratner & Prestia</u> Street Address: <u>Suite 301, One Westlakes, Berwyn, P.O. Box 980 Valley Forge, PA 19482-0980</u> Phone: <u>(610) 407-0700</u></p>	<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41): \$ <u>40.00</u> ✓</p> <p><input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account ✓ (FI-365)</p> <p>8. Deposit account number: <u>09-0458 (IBM Corporation)</u> (Attach duplicate copy of this page if paying by deposit account.)</p>
--	--

DO NOT USE THIS SPACE

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.

Joseph P. Abate
Name of Person Signing
30,238
Registration. No.

Signature: [Handwritten Signature]
Date: 7-30-89

Total number of pages including cover sheet, attachments, and document: 5

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS EXPRESS MAIL IN AN ENVELOPE ADDRESSED TO: COMMISSIONER OF PATENTS AND TRADEMARKS, WASHINGTON, D.C. 20231. THE APPLICANT AND/OR ATTORNEY REQUEST THE DATE OF DEPOSIT AS THE FILING DATE.

Express Mail Certificate No.: EE468937326US

Date of Deposit: July 30, 1999

Name of Person Making Deposit: RobinAnn Zeno

Signature: [Handwritten Signature] 7/30/99

08/06/1999 DWGUYEN 00000041 090458 09363742
01 FC:581 40.00 CH

ASSIGNMENT

WHEREAS, we

55 SECOR LANE, HOPEWELL JUNCTION, NY 12533
 RC 7/21/99

- (1) ~~Kai Chen of 100 Main Street, Apt. 2G, Brewster, NY 10509;~~
- (2) **Scott W. Crowder** of 10 Narragansett Avenue, Ossining, NY 10562;
- (3) **Liang-Kai Han** of 9H Millholland Drive, Fishkill, NY 12524;
- (4) **Michael J. Hargrove** of RR1 Box 201, Clinton Corners, NY 12514;
- (5) **Kam-Leung Lee** of 8 Breezy Park Road, Putnam Valley, NY 10579;
- (6) **Hung Y. Ng** of 361 Leonard Drive, New Milford, NJ 07646.

have invented certain improvements in

**NITROGEN CO-IMPLANTATION TO FORM SHALLOW
 JUNCTION-EXTENSIONS OF P-TYPE METAL OXIDE
 SEMICONDUCTOR FIELD EFFECT TRANSISTORS**

and have executed, respectively, a United States patent application therefor on:

- (1) July 21, 1999;
- (2) July 30, 1999;
- (3) July 27, 1999;
- (4) July 19, 1999;
- (5), 1999;
- (6) July 23, 1999.

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 the 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 invention 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 P United States and foreign applications when called upon to do so by IBM.

Signed

(1) at East Fishkill, NY
on July 21, 1999;


Kai Chen

(2) at East Fishkill, NY
on July 30, 1999;


Scott W. Crowder

(3) at East Fishkill, NY
on July 27, 1999;


Liang-Kai Han

(4) at East Fishkill, NY
on July 19, 1999;


Michael J. Hargrove

(5) at
on _____, 1999;

Kam-Leung Lee

(6) at East Fishkill, NY
on July 23, 1999.


Hung Y. Ng

ASSIGNMENT

WHEREAS, we

- (1) **Kai Chen** of 100 Main Street, Apt. 2C, Brewster, NY 10509;
- (2) **Scott W. Crowder** of 10 Narragansett Avenue, Ossining, NY 10562;
- (3) **Liang-Kai Han** of 9H Millholland Drive, Fishkill, NY 12524;
- (4) **Michael J. Hargrove** of RR1 Box 201, Clinton Corners, NY 12514;
- (5) **Kam-Leung Lee** of 8 Breezy Park Road, Putnam Valley, NY 10579;
- (6) **Hung Y. Ng** of 361 Leonard Drive, New Milford, NJ 07646.

have invented certain improvements in

**NITROGEN CO-IMPLANTATION TO FORM SHALLOW
 JUNCTION-EXTENSIONS OF P-TYPE METAL OXIDE
 SEMICONDUCTOR FIELD EFFECT TRANSISTORS**

and have executed, respectively, a United States patent application therefor on:

- (1) , 1999;
- (2) , 1999;
- (3) , 1999;
- (4) , 1999;
- (5) *July, 20 ~~23~~ 1999;* *Grant*
- (6) , 1999.

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 the invention therein disclosed for the United States and foreign countries,

