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To the Honorable Commissioner
copy thereof.

Record the attached original document or

1. Name of Conveying party(ies): **Ramachandra Divakaruni, Thomas W. Dyer**

3. Nature of Conveyance: **Assignment**

Execution Date: **12/16/02, 12/16/02.**

2. Name & address of receiving party(ies)

Name: **International Business
Machines Corporation**

Street

Address: **New Orchard Road**

City: **Armonk** State: **New York** ZIP: **10504**

4. Application number(s) or patent number(s):

Title of Application: **INVERTED BURIED STRAP STRUCTURE AND METHOD FOR VERTICAL TRANSISTOR
DRAM**

If this document is being filed together with a new application, the execution date of the
application is: **12/16/02.**

A. Patent Application No(s).

Docket No.

Serial No.

B. Patent No(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: **Daryl K. Neff**

Street Address:

**IBM Corporation
Intellectual Property Law Dept.
Dept. 18G/Bldg. 300-482
2070 Route 52
Hopewell Junction, NY 12533-6531**

6. Total number of applications and
patents involved: **1**

7. Total fee (37 CFR 3.41): \$40.00

☐ Enclosed

☒ Authorized to be charged to
deposit account

8. Deposit A/C no.: **09-0458 (FI-007)**
(Attach duplicate copy of this page
if paying by deposit account)

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Ira D. Blecker, Reg. No. 29,894

Name of Person Signing

Telephone No. (845) 894-2580

Signature

Date

Total number of pages, including cover sheet, attachments, and document **2**

Express Mail No. **EF255372608US**

I hereby certify that this correspondence is being deposited with the United States Postal Service as
Express Mail in an envelope addressed to: UNITED STATES PATENT & TRADEMARK OFFICE, PO BOX 2327, ARLINGTON,
VA 22202. Applicant and/or Attorney requests the date of deposit as the filing date.

January 3, 2003

DATE OF DEPOSIT

KAREN CINQ-MARS

SIGNATURE AND DATE

**PATENT
REEL: 013649 FRAME: 0772**

ASSIGNMENT

WHEREAS, we

(1)	Ramachandra Divakaruni	of Ossining
	County of Westchester	State of New York
and		
(2)	Thomas W. Dyer	of Pleasant Valley
	County of Dutchess	State of New York

have invented certain improvements in

**INVERTED BURIED STRAP STRUCTURE AND
METHOD FOR VERTICAL TRANSISTOR DRAM**and executed a United States patent application therefor on:
(dates that Inventors signed the declaration)(1) 12/16/02, 2002 and (2) 12/16/02, 2002.

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, I, 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 I 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 I hereby agree that IBM may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Signed

(1) at East Fishkill, NY
on Dec 16, 2002,
and

Ramachandra Divakaruni
Ramachandra Divakaruni

(2) at East Fishkill, NY
on 12/16, 2002,

Thomas W. Dyer
Thomas W. Dyer