

11-20-1998

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

1. Name of Conveying party(ies): William T. Motsiff and Michael J. Shapiro

3. Nature of Conveyance: Assignment

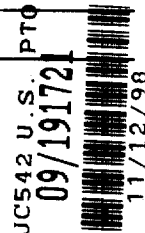
2. Name & address of receiving party(ies)

Name: International Business Machines Corporation

Execution Date: 11/02/98; 10/27/98.

Street Address: New Orchard Road

City: Armonk State: New York ZIP: 10504



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

Title of Application: SEMICONDUCTOR DEVICE WITH INTERNAL HEAT DISSIPATION.

If this document is being filed together with a new application, the execution date of the application is: 11/02/98; 10/27/98.

A. Patent Application No(s).  
Docket No. HQ9-98-046

B. Patent No(s)

Additional numbers attached? Yes X No

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

Name: Joseph P. Abate, Sr. Attorney

Street Address:

International Business Machines Corp.  
Intellectual Property Law Dept.  
1580 Route 52  
Dept. 18G / Bldg. 300-482  
Hopewell Junction, New York 12533

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

X Enclosed  
X Authorized to be charged to deposit account

8. Deposit A/C no.: 09-0458 (FI-476)

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9. Statement of 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, Reg. #30,238

Name of Person Signing

Telephone No. (914) 894-4633

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

Signature

Date

11-12-98

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

Express Mail Certificate No: EE443818040US

Date of Deposit: November 12, 1998

Name of Person Making Deposit: RobinAnn Zeno

Signature: RobinAnn Zeno 11/12/98

11/20/1998 JSMBDZZ 00000033 090458 09191721

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40.00 CH

PATENT  
REEL: 9589 FRAME: 0391

# ***ASSIGNMENT***

Whereas, I

(1)	William T. Motsiff	City of Essex Junction
County of	Chittenden	and State of Vermont
(2)	Michael J. Shapiro	City of Austin
County of	Traverse	and State of Texas

have invented certain improvements in

**Semiconductor Device With Internal Heat Dissipation**

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

(1)	<u>11/2/98</u>	199 <u>8</u> .
(2)	<u>                    </u>	199 <u>    </u> .

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 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 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.

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(1) Signed at Essex Junction, VT

on Essex Junction, VT

William T. Motsiff Signature  
William T. Motsiff

on 11/2/98

\_\_\_\_\_  
Michael J. Shapiro Signature

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(1) \_\_\_\_\_ 199\_\_ .

(2) October 27 1998 .

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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 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.

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