

08-08-2000

Docket No.: EN997075US2

FORM PTO-1595 (Modified) (Rev. 6-93) OMB No. 0651-0011 (exp 4/94) Copyright 1996-97 LernalStar P08A/REV02



FRONT SHEET

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

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Tab settings

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

1. Name of conveying party(ies):

Francis J. Downes, Jr. Donald S. Farquhar Elizabeth Foster Robert M. Japp Gerald W. Jones John S. Kresge Robert D. Sebesta David B. Stone James R. Wilcox

Additional names(s) of conveying party(ies) [ ] Yes [X] No

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

Name: International Business Machines Corporation

Address: New Orchard Road

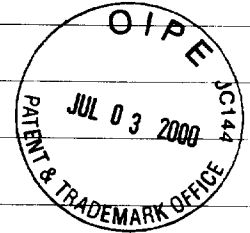
City: Armonk

State/Prov.: NY

Country: USA

ZIP: 10504

Additional name(s) & address(es) [ ] Yes [X] No



3. Nature of conveyance:

[X] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other 5/3/00 5/05/00 5/8/00 5/05/00 5/14/00 5/03/00 5/21/00 5/05/00 5/18/00 Execution Date:

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:

Patent Application No. Filing date 09/540,172 03/31/2000

B. Patent No.(s)

Additional numbers [ ] Yes [X] No

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

Name: Schmeiser, Olsen & Watts Registration No. Jack P. Friedman, 44,688 Address: 3 Lear Jet Lane, Suite 201

City: Latham State/Prov.: NY

Country: USA ZIP: 12110

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

[X] Authorized to be charged to deposit account

8. Deposit account number:

09-0457(IBM)

08/07/2000 BNGUYEN 00000174 090457 09540172

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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.

Jack P. Friedman, Reg. No. 44,688

Name of Person Signing

Jack P. Friedman

Signature

6/29/2000

Date

Total number of pages including cover sheet, attachments, and



# ASSIGNMENT

Whereas, We

- |  |   |
|--|---|
| (1) Francis J. Downes, Jr.<br>County of Broome | City of Vestal<br>and State of New York           |
| (2) Donald S. Farquhar<br>County of Broome     | City of Endicott<br>and State of New York         |
| (3) Elizabeth Foster<br>County of Susquehanna  | City of Friendsville<br>and State of Pennsylvania |
| (4) Robert M. Japp<br>County of Broome         | City of Vestal<br>and State of New York           |
| (5) Gerald W. Jones<br>County of Tioga         | City of Apalachin<br>and State of New York        |
| (6) John S. Kresge<br>County of Broome         | City of Binghamton<br>and State of New York       |
| (7) Robert D. Sebesta<br>County of Broome      | City of Endicott<br>and State of New York         |
| (8) David B. Stone<br>County of Chittenden     | City of Jericho<br>and State of Vermont           |
| (9) James R. Wilcox<br>County of Broome        | City of Vestal<br>and State of New York           |

have invented certain improvements in a:

**ELECTRONIC PACKAGE WITH HIGH DENSITY INTERCONNECT LAYER**

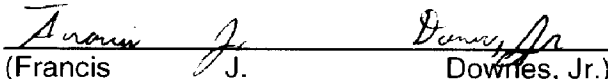
Dates That	and executed, respectively, a United States patent application therefor on		
Inventors			
Signed the	(1) <i>5/3/00</i>	2000; (2) <i>5/05/00</i>	2000;
Declaration	(3) <i>5/8/00</i>	2000; (4) <i>5/05/00</i>	2000;
	(5) <i>5/7/00</i>	2000; (6) <i>5/3/00</i>	2000;
	(7) <i>5/01/00</i>	2000; (8) <i>5/3/00</i>	2000; and
	(9) <i>5/18/00</i>	2000.	

And 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;

## ASSIGNMENT

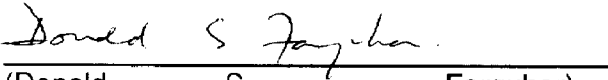
Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign 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 applications 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.

(1) at Endicott, NY  
on 5/31 2000

  
 (Francis J. Downes, Jr.)  
 First Name Middle Last Name


Signature  
Inventor

(2) at Endicott, NY  
on 5/5 2000

  
 (Donald S. Farquhar)  
 First Name Middle Last Name


Signature  
Inventor

(3) at Endicott, NY  
on 5/8 2000

  
 (Elizabeth Foster)  
 First Name Middle Last Name


Signature  
Inventor

(4) at Endicott, NY  
on 5/5 2000

  
 (Robert M. Japp)  
 First Name Middle Last Name


Signature  
Inventor

(5) at Endicott, NY  
on 5/4 2000

  
 (Gerald W. Jones)  
 First Name Middle Last Name

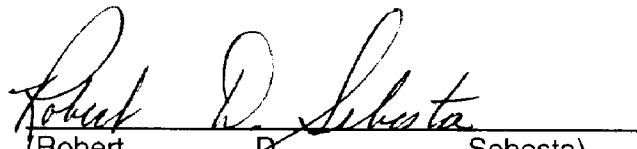
Signature  
Inventor

(6) at Endicott, NY  
on 5/3/00 2000

  
 (John S. Kresge)  
 First Name Middle Last Name

Signature  
Inventor

# ASSIGNMENT



(Robert D. Sebesta)  
First Name Middle Last Name

Signature  
Inventor

(7) at Endicott, NY  
on 5/01/00 2000



(David B. Stone)  
First Name Middle Last Name

Signature  
Inventor

(8) at Endicott, NY  
on 5/3 2000



(James R. Wilcox)  
First Name Middle Last Name

Signature  
Inventor

(9) at ENDICOTT, NY  
on MAY, 18, 2000