

05-21-2003



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D
Docket No.: YOR920020180US1 (15913)

T U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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):

1. **Birendra N. Agarwala**, 2. **Conrad A. Barile**,
3. **Hormazdyar M. Dalal**, 4. **Brett H. Engel**,
5. **Michael Lane**, 6. **Ernest Levine**, 7. **Xiao Hu Liu**,
8. **Vincent McGahay**, 9. **John F. McGrath**,
5.16.03

Additional names(s) of conveying party(ies)

☒ Yes ☐ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

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

Name: International Business Machines Corporation

Address: New Orchard Road

City: Armonk State/Prov.: New York

Country: U.S.A. ZIP: 10504

Execution Date: 4/22/03, 4/22/03, 4/28/03, 4/29/03, 4/18/03,

4/24/03, 4/18/03, 4/29/03, 5/2/03, 4/18/03, 4/28/03,

4. Application number(s) or patent numbers(s): 4/22/03, 4/21/03, 4/18/03

If this document is being filed together with a new application, the execution date of the application is: _____
respectively

Patent Application No.

Filing date

B. Patent No.(s)

10/305,534

November 27, 2002

Additional name(s) & address(es)

☐ Yes ☒ No

Additional numbers

☐ Yes ☒ No

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

Name: Steven Fischman

Registration No. 34,594

Address: Scully, Scott, Murphy & Presser

Customer No. 23389

05/21/2003 ECDOPER 00000014 500510 10306534

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40.00 CH

City:

State/Prov.:

Country:

ZIP:

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

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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.

Steven Fischman, Reg. No. 34,594

Name of Person Signing

Signature

May 13, 2003

Date

5

Total number of pages including cover sheet, attachments, and

RECORDATION FORM COVER SHEET (continued)

1. Name of conveying party(ies)(continued):

- 10. Conal E. Murray**
- 11. Jawahar P. Nayak**
- 12. Du B. Nguyen**
- 13. Hazara S. Rathore**
- 14. Thomas M. Shaw**

IBM Docket No.: YOR920020180US1
SSMP: 15913

ASSIGNMENT

Whereas, we

Inventor and City	(1) Birendra N. Agarwala County of Dutchess	City of Hopewell Junction and State of New York
and	(2) Conrad A. Barile County of Dutchess	City of Wappingers Falls and State of New York
and	(3) Hormazdyar M. Dalal County of Dutchess	City of LaGrangeville and State of New York
and	(4) Brett H. Engel County of Dutchess	City of Hopewell Junction and state of New York
and	(5) Michael Lane County of Westchester	City of Cortlandt Manor and State of New York
and	(6) Ernest Levine County of Dutchess	City of Poughkeepsie and State of New York
and	(7) Xiao Hu Liu County of Westchester	City of Croton-on-Hudson and state of New York
and	(8) Vincent McGahay County of Dutchess	City of Poughkeepsie and State of New York
and	(9) John F. McGrath County of Middlesex	City of Somerville and State of Massachusetts
and	(10) Conal E. Murray County of Westchester	City of Yorktown Heights and state of New York
and	(11) Jawahar P. Nayak County of Dutchess	City of Wappingers Falls and State of New York
and	(12) Du B. Nguyen County of Fairfield	City of Danbury and State of Connecticut
and	(13) Hazara S. Rathore County of Dutchess	City of Stormville and state of New York
and	(14) Thomas M. Shaw County of Westchester	City of Peekskill and state of New York

have Invented certain improvements in

Title STACKED VIA-STUD WITH IMPROVED RELIABILITY IN COPPER METALLURGY

IBM Docket No.: YOR920020180US1
SSMP: 15913

ASSIGNMENT (continued)

Dates That
Inventors
Signed the
Declaration

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

(1)	4/22	2003, and (2)	4/22	2003, and
(3)	4/28	2003, and (4)	4/29	2003, and
(5)	4/18	2003, and (6)	4/24	2003, and
(7)	4/18	2003, and (8)	4/29	2003, and
(9)	5/2	2003, and (10)	4/18	2003, and
(11)	4/28	2003, and (12)	4/22	2003, and
(13)	4/21	2003, and (14)	4/18	2003.

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

City (1) Signed at

Date on 4/22/03

Birendra N. Agarwala signature
(Birendra N. Agarwala) inventor
First Name Middle Initial Last Name

City (2) Signed at

Date on 4/22/03

Conrad A. Barile signature
(Conrad A. Barile) inventor
First Name Middle Initial Last Name

City (3) Signed at

Date on 4/28/03

Hormazdyar M. Dalal signature
(Hormazdyar M. Dalal) inventor
First Name Middle Initial Last Name

City (4) Signed at

Date on 4/29/03

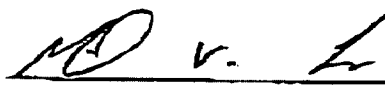
Brett H. Engel signature
(Brett H. Engel) inventor
First Name Middle Initial Last Name

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ASSIGNMENT (continued)

City (5) Signed at


Date on 4-18-03



(Michael First Name Middle Initial Lane Last Name) signature) inventor

City (6) Signed at

Date on 4/24/03



(Ernest First Name Middle Initial Levine Last Name) signature) inventor

City (7) Signed at

Date on 4-18-2003



(Xiao First Name H. Middle Initial Liu Last Name) signature) inventor

City (8) Signed at Hopewell, NJ

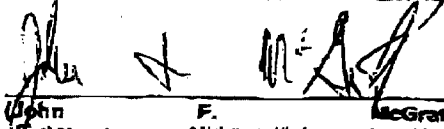
Date on 4/29/03



(Vincent First Name Middle Initial McGahay Last Name) signature) inventor

City (9) Signed at Conscowice, N.Y.


Date on 5/2/03



(John First Name F. Middle Initial McGrath Last Name) signature) inventor

City (10) Signed at

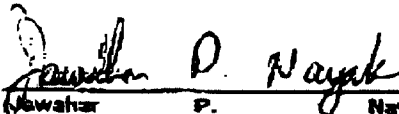
Date on 4/18/03



(Conal First Name E. Middle Initial Murray Last Name) signature) inventor

City (11) Signed at

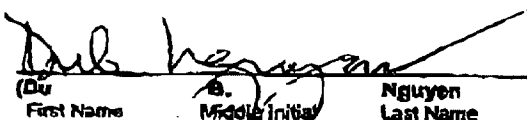
Date on 4/28/03



(Jawahar First Name P. Middle Initial Nayak Last Name) signature) inventor

City (12) Signed at

Date on 4/22/03



(Du First Name B. Middle Initial Nguyen Last Name) signature) inventor

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SSMP: 15913

ASSIGNMENT (continued)

City (13) Signed at

Date on 4/21/03

Hazara S. Rathore signature
(Hazara S. Rathore) inventor
First Name Middle Initial Last Name

City (14) Signed at

Date on 4/18/03

Thomas M. Shaw signature
(Thomas M. Shaw) inventor
First Name Middle Initial Last Name