

11-21-2002



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

To the Honorable Commissioner of Patents and Trademarks

attached original documents or copy thereof.

1. Name of conveying party(ies):

Matthew J. Carey
Bruce A. Gurney
Yongho Ju

11/07/02

Additional name(s) of conveying party(ies) attached? Yes ☒ No

3. Nature of conveyance:

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

Execution Date: 11/6/02

2. Name and address of receiving party(ies)

Name: International Business Machines Corporation

Internal Address: _____

Street Address: New Orchard Road

City: Armonk State: NY Zip: 10504

Additional name(s) & address(es) attached? ☐ Yes ☒ No

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: 11/6/02

A. Patent Application No.(s)

10/29/119

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: IBM Corporation

Internal Address: _____

Intellectual Property Law (C4TA/J2B)

Street Address: 650 Harry Road

11/20/2002 6TON11 00000204 090441 10291119

01 FC:8021

40.00 CH

City: San Jose

State: CA

Zip: 95120-6099

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40

☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

09-0441

(Attach duplicate copy of this page if paying by deposit account)

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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.

Thomas R. Berthold

Name of Person Signing

Signature

11/7/02

Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231PATENT
REEL: 013498 FRAME: 0368

ASSIGNMENT

Whereas, I/we,

(1) **Matthew J. Carey**

City of **San Jose**

County of **Santa Clara**

State of **CA**

(2) **Bruce A. Gurney**

City of **San Rafael**

County of **Marin**

State of **CA**

(3) **Yongho Ju**

City of **San Jose**

County of **Santa Clara**

State of **CA**

(4)

City of

County of

State of

(5)

City of

County of

State of

(6)

City of

County of

State of

have invented certain improvements in:

**LOW RESISTANCE HIGH MAGNETORESISTANCE MAGNETIC TUNNEL JUNCTION DEVICE WITH
IMPROVED TUNNEL BARRIER**

and executed a Declaration and Power of Attorney for a United States patent application therefor on

(1) Nov 5, 2002 (2) Nov 6, 2002 (3) 11/04/2002
(4) _____ (5) _____ (6) _____

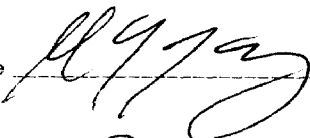
Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504 (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to 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 inventions 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.

(1) Inventor: **Matthew J. Carey**

City/State: **San Jose, CA**

Signature



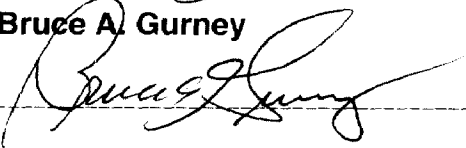
Date

Nov 5, 2002

(2) Inventor: **Bruce A. Gurney**

City/State: **San Jose, CA**

Signature



Date

Nov 6, 2002

(3) Inventor: **Yongho Ju**

City/State: **San Jose, CA**

Signature



Date

11/04/2002

(4) Inventor:

City/State: **San Jose, CA**

Signature

Date

(5) Inventor:

City/State: **San Jose, CA**

Signature

Date

(6) Inventor:

City/State: **San Jose, CA**

Signature

Date