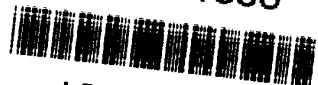


MRD 5-27-98

06-12-1998



100736573

DOCKET: SA997187

US Department of Commerce  
Patent & Trademark Office

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

1. Name of conveying party(ies):

Tsann Lin  
Daniele Mauri  
Joseph Francis Smyth

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

Name: International Business  
Machines Corporation

Street Address: New Orchard Road  
City: Armonk State: NY ZIP: 10504

Additional name(s) of conveying  
party(ies) attached \_\_Yes XX No

Additional name(s) & address(es) attached?  
\_\_Yes XX No

3. Nature of conveyance:

XX Assignment

Execution Date: May 21, 1998, May 21, 1998  
and May 27, 1998

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: May 21, 1998, May 21, 1998 & May 27, 1998

A. Patent Application No.(s)

09/085981

B. Patent No.(s)

Additional numbers attached? \_\_Yes XX No

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

Name: IBM Corporation  
Internal  
Address: Intellectual Property Law  
Street  
Address: 5600 Cottle Road (L2PA/0142)  
San Jose, CA 95193

6. Total Number of applications and patents  
involved: One

7. Total fee (37 CFR 3.41).....\$ 40.00  
\_\_ Enclosed  
XX Authorized to be charged to  
deposit account

8. Deposit Account Number: 09-0466

06/10/1998 DC0478 00000178 090466 09085981  
01 FC:581 40.00 CH

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.

May 27, 1998

Paik Saber

Date

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

jc526 U.S. PTO  
09/085981  
05/27/98

ASSIGNMENT

Docket No. SA997187

Whereas, we

INVENTOR  
AND CITY(1) Tsann Lin  
County of Santa Claraof Saratoga ,  
and State of California,and (2) Daniele Mauri  
County of Santa Claraof San Jose,  
and State of California ,and (3) Joseph Francis Smyth  
County of Santa Claraof Los Altos,  
and State of California,

have invented certain improvements in

TITLE

**Spin Valves With High Uniaxial Anisotropy Reference and Keeper Layers**DATES THAT  
INVENTORS  
SIGNED THE  
DECLARATION

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

(1) 5/21, 1998, (2) 5/21, 1998, (3) 5/27, 1998.

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;

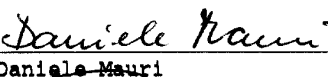
Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign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

Signed and sealed

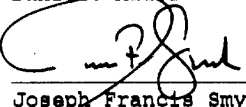
CITY  
DATE(1) at San Jose  
on 5/21, 1998,

  
\_\_\_\_\_  
Tsann Lin SIGNATURE  
INVENTOR

CITY  
DATEand (2) at San Jose  
on 5/21, 1998,

  
\_\_\_\_\_  
Daniele Mauri SIGNATURE  
INVENTOR

CITY  
DATEand (3) at San Jose  
on 5/27, 1998,

  
\_\_\_\_\_  
Joseph Francis Smyth SIGNATURE  
INVENTOR