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US Department of Commerce

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. Name of conveying party(ies): 2. Name and address of receiving party(ies Stuart Stephen Papworth Parkin Name: International Business Mahesh Govind Samant Machines Corporation Street Address: New Orchard Road City: Armonk State: NY Additional name(s) of conveying Additional name(s) & address(es) attached? party(ies) attached __Yes XX No __Yes XX No 3. Nature of conveyance: XX Assignment Execution Date: 10/15/99 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:______ A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? __Yes XX No 5. Name and address of party to whom 6. Total Number of applications and patents correspondence concerning document involved: One should be mailed: Name: IBM Corporation 7. Total fee (37 CFR 3.41).....\$ 40.00 Internal __ Enclosed Address: Intellectual Property Law XX Authorized to be charged to Street deposit account Address: 650 Harry Road (C4TA/C2B) San Jose, CA 95120-6099 8. Deposit Account Number: 09-0441 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.

10/26/1999 DMGUYEN 00000074 090441 09420213

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Whereas, we

INVENTOR

AND CITY

(1) Stuart Stephen Papworth Parkin

County of Santa Clara

and (2) Mahesh Govind Samant

County of Santa Clara

and State of CA, of San Jose,

of San Jose,

and State of CA,

have invented certain improvements in

TITLE

Antiferromagnetically Exchange-Coupled Structure for Magnetic Tunnel Junction Device

DATES THAT
INVENTORS
SIGNED THE

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

(1) 10/15/99 , 1999, (2) 10/15/99 , 1999.

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

(1) at San Jose

DATE

CITY

and (2) at San Jose

DATE

on Oct 15 1999,

/ /

Stuart Stephen Papworth Parkin

Mahesh Govind Samant SIGNATURE

Mahesh Govind Samant

INVENTOR

INVENTOR

RECORDED: 10/18/1999

PATENT REEL: 010324 FRAME: 0828