FORM PTO-1595	12/5/94
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05-23-2000

HEET

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

1. Name of conveying party(ies):	2. Name and address of receiving	party(ies):
Nobuyuki ISHIWATA, Keishi OHASHI and Hisanao TSUGE	Name: NEC CORPORATION	
Additional name(s) of conveying party(ies) attached? II Yes [X] No	Street Address:	/989
3. Nature of conveyance: 13-8-1999	7-1, Shiba 5-chome Minato-ku	9/45 2/ø8
[X] Assignment [] Merger	Tokyo, Japan 🦉	
[] Security Agreement[] Change of Name		
[] Other		
Execution Date: December 3, 1999		

 Application number(s) or patent (numbers): If this document is being filed together with a new application, the execution date of the application is: December 3, 1999

 I

	A. Patent Application No(s).	B. Patent No(s).
		Additional numbers attached? [] Yes [X] No
5.	Name and address of party to whom corre- spondence concerning document should be mailed:	 Total number of applications and patents involved: 1
	YOUNG & THOMPSON Second Floor 745 South 23rd Street Arlington, VA 22202	7. ⁻ Total fee (37 CFR 3.41)\$ 40 [X] Enclosed [] Authorized to be charged to deposit account
		8. Deposit Account No. 25 - 0120 (Attach duplicate copy of this page if paying by deposit ac- count)

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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.

\$. 0 N cember 8 1999 Lauren Terry Date Signature 3 Name of Person Signing Total number of pages in duding cover sheet: [2] 000 1999 KHARLING 0.531 PATENT REEL: 010663 FRAME: 0564

Decd of Assignment (Before Patent)

ASSIGNMENT

WHEREAS, NOBUYUKI ISHIWATA, KEISHI OHASHI and HISANAO TSUGE

of Tokyo, Japan

hays___ invented certain new and useful improvements in <u>_TUNNELING MAGNETORESISTANCE</u> TRANSDUCER AND METHOD FOR MANUFACTURING THE SAME

for which ____We AFE_about_to_wake_____ application for Letters (I/we have made-or am/are about to make)

Patent of the United States of America:

NOW THEREFORE, be it known by all whom it may concern, that for and in consideration of _______ One ______ Dollars (\$______One_______ Dollars (\$______One______) to ______ in hand paid, the receipt of which is hereby acknowledged ______tbe__said_ASSIGNOB_______ have assigned, sold, and set over, and by these presents do hereby assign, sell, and set over unto the said _____ASSIGNEE___NEC_Corporation______ right, title, and interest in and to the said invention,

as fully set forth and described in the:

Delsts Inapplicable wording

(a) specification prepared and executed by <u>us</u> on the <u>3-rd</u> day of <u>December</u>, 1999,
 (b) application filed on the <u>day of _us</u>, 19____, Serial No. _____,
 preparatory to obtaining Letters Patent therefor; said invention, application and Letters Patent to be held and enjoyed by the said _____ASSAGNEE. NEC_Corporation

for ____thatr__ own use and behoof, and for __thatr___ legal representatives, to the full end of the term for which said Letters Patent are granted, as fully and entirely as the same would have been held by ____u___ had this assignment and sale not been made.

Witness: Funitake Watande

· State whether the full and exclusive right, or what part of the whole interest is assigned.

PATENT

REEL: 010663 FRAME: 0565

(Inventor's full Signature)

Ohas

NOBUYUKI





MARCH 16, 2000

YOUNG & THOMPSON LAUREN TERRY SECOND FLOOR 745 SOUTH 23RD STREET ARLINGTON, VA 22202 UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS

Washington, D.C. 20231

PTAS



UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/25/1999

REEL/FRAME: 010450/0823 NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR: ISHIWATA, NOBUYUKI	DOC DATE: 12/03/1999
ASSIGNOR: OHASHI, KEISHI	DOC DATE: 12/03/1999
ASSIGNOR: TSUGE, HISANAO	DOC DATE: 12/03/1999
ASSIGNEE: NEC CORPORATION 7-1, SHIBA 5-CHOME MINATO-KU TOKYO, JAPAN	
SERIAL NUMBER: 09456881 PATENT NUMBER:	FILING DATE: 12/08/1999 ISSUE DATE:

PATENT REEL: 010663 FRAME: 0566 MAURICE CARTER, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

PATENT REEL: 010663 FRAME: 0567

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of	
Nobuyuki ISHIWATA et al.	PEJCO
Serial No. 09/456,881	MAY 10 2000 BOX ASSIGNMENTS
Filed December 8, 1999 🔪	a l
TUNNELING MAGNETORESISTAN	ATENT & TOACT
TRANSDUCER AND METHOD FOR	
MANUFACTURING THE SAME	

REQUEST FOR CORRECTION OF NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

Assistant Commissioner for Patents

Washington, D.C. 20231

Sir:

We return herewith the recorded assignment of the above-identified application for correction of the information contained in the Notice of Recordation of Assignment Document, as follows:

RECORDATION DATE: December 8, 1999

It is requested that this error be corrected and the properly recorded document be returned to us in due course.

Respectfully submitted,

YOUNG & THOMPSON

By

Robert J. Patch Attorney for Applicants Registration No. 17,355 745 South 23rd Street Arlington, VA 22202 Telephone: 521-2297

May 10, 2000

RECORDED: 12/08/1999