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Atty. Docket No.: 12480-000064/US

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4. Application number(s) or pater		C 4 1 12 2004
If this document is being filed to		he execution date of the application is: September 13, 2004, ber 13, 2004
A. Patent Application No(s).	and Septem	B. Patent No.(s).
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5. Name and address of party to v concerning document should be	whom correspondence	6. Total No. of applications/patents involved: One (1)
Name: HARNESS, DICKEY &		7. Total fee (37 C.F.R. § 3.41): \$40.00
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Donald J. Daley, #34,313 Name of Person Signing/Reg. No	S. Uhl	Signature September 24, 2004 Date
Total numb	er of pages including cover shee	et, attachments, and document: THREE (3)

DJD/smk

PATENT REEL: 016469 FRAME: 0621

ASSIGNMENT

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

TUNNELING MAGNETORESISTIVE ELEMENT, SEMICONDUCTOR JUNCTION ELEMENT, MAGNETIC MEMORY AND SEMICONDUCTOR LIGHT EMITTING ELEMENT

for whice patent	ch Assi	gnor is	about to make or has made United States or International application for
	(a)		executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration and Power of Attorney);
	(b)		executed on,; or
	(c)	\boxtimes	filed on March 25, 2003, and assigned Serial No or PCT International Application No. PCT/JP03/03604;
	(d)		U.S. Patent No, issued; and

WHEREAS, JAPAN SCIENCE AND TECHNOLOGY AGENCY, hereinafter referred to as Assignee, is desirous of acquiring an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor by these presents does sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and all foreign countries, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the said invention as described in the aforesaid application, said application for patent and all Letters Patent therefor to be held and enjoyed by Assignee to the full end of the term for which said Letters Patent are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to recover for past infringements of, or liabilities for, any of the rights relating to any of said applications or patents resulting therefrom;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale or agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue said Letters Patent, Utility Model Registration or Inventor's Certificate to Assignee.

The undersigned hereby grant(s) the law firm of Harness, Dickey & Pierce, P.L.C. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

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ASSIGNMENT

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Dated	Dated

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