Mail Stop: Assignment Recordation Services Director of the U.S. Patent and Trademark Office P.O. Box 1450	RECORDATION FORM PATENTS OF			
Alexandria, VA 22313-1450		Attorney Docket No. 139450		
Please record the attached document. Total number of pages including cover:	sheet, attachments, and documer	ent: <u>}</u>		
A. Name of conveying parties: 1) Satoshi TOMIKA 2) Seiichi TAKAYA 3) Koji SHIMAZAW B. Additional name(s) of conve	MA /A	2. A. Name and address of receiving party: TDK CORPORATION 1-13-1, NIHONBASHI, CHUO-KU TOKYO 103-8272 JAPAN		
3. A. Nature of conveyance: Assignment Security Agreement Other	☐ Merger ☐ Change of Name	B. Additional name(s) & address(es) attached? ☐ Yes [3] No		
B. Execution Date: 1) December 2 & 3) December 19, 2008		B. Patent No.(s)		
4. A. Patent Application No. 12/201,120				
Additional numbers attached? Yes No C. Title of Application: <u>THERMALLY ASSISTED MAGNETIC HEAD HAVING AN ASYMMETRIC</u> PLASMON ANTENNA AND MANUFACTURING METHOD THEREOF				
Name and address of party to who concerning document should be n	om correspondence nailed:	6. Total number of applications and patents involved: 1		
Name: <u>James A. Oliff</u>		7 Please charge Deposit Account No. 15-0461 the total fee (37 CFR 3.41) in the amount of \$40.00.		
Address: OLIFF & BERRIDGE, PLC P.O. Box 320850 Alexandria, VA 22320-4850 Phone Number: 703-836-6400 Fax Number: 703-836-2787		Credit any overpayment or charge any underpayment to deposit account number 15-0461.		
9. Statement and signature. To the best of my knowledge and original document.	belief, the foregoing information	ion is true and correct and any attached copy is a true copy of the		
James A. Oliff Registra	tion No. 27,075 tion No. 60,342	Date: January 12, 2009		

PATENT REEL: 022095 FRAME: 0191

1): Name: 2): Name: 3): Name: For Non-U.S. Clients

ASSIGNMENT

Whereas, I/we,			
<u>Name</u>	<u>Address</u>		
	(c/o) TDK Corporation,		
1) Satoshi TOMIKAWA	1-13-1, Nihonbashi, Chuo-ku, Tokyo 103-8272 Japan		
	(c/o) TDK Corporation,		
2) Seilchi TAKAYAMA	1-13-1, Nihonbashi, Chuo-ku, Tokyo 103-8272 Japan		
	(c/o) TDK Corporation,		
3) Koji SHIMAZAWA	1-13-1, Nihonbashi, Chuo-ku, Tokyo 103-8272 Japan		
METHOD THEREOF and executed an application for	NETIC HEAD HAVING AN ASYMMET Letters Patent of the United States of		
otherwise indicated below:	Nevember 7, 2008	12/267126	, and
filed on _ Whereas	November 7, 2008 , Seria	INO. IZIZOFIZO	; and
TDK Corporation 1-13-1, Nihon	bashi, yo 103-8272 Japan		
patents to be obtained therefor; NOW THEREFORE, be i hereby acknowledged, I/WE, as transfer, and set over unto the a this invention and this application which may be granted thereon, Patents and Trademarks of the assigns, in accordance with the	t known that, for good and valuable con a assignor(s), have sold, assigned, tran assignee, its lawful successors and assign, and all divisions, and continuations and all reissues thereof; and I/WE her United States to issue all Letters Pater eterms of this Assignment;	nsideration from assignee, the nsferred, and set over, and do h signs, MY/OUR entire right, title thereof, and all Letters Patent eby authorize and request the ont for this invention to assignee	receipt of which is lereby sell, assign, land interest in and to of the United States Commissioner of land its successors and
assignee, its successors and as proceeding, sign all lawful paper desirable to perfect the title to the continuation, and reissue applies successors and assigns, to obtain	her covenant and agree that I/WE will, ssigns, any facts known to ME/US respers when called upon to do so, execute his invention in said assignee, its succeptions, make all rightful oaths and general ain and enforce proper patent protection acident to the execution of such papers	pecting this invention and testify and deliver all papers that may essors and assigns, execute all perally do everything possible to an for this invention in the Unite	vin any legal v be necessary or I divisional, o aid assignee, its d States, it being
INVENTORS		DATE	SIGNED

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. § 261)

201/12/18

RECORDED: 01/12/2009 REEL: 022095 FRAME: 0192