Ma	uil Ston:					
Mail Stop: Assignment Recordation Services Director of the U.S. Patent and Trademark Office P.O. Box 1450		RECORDATION FORM COVER SHEET PATENTS ONLY		U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office		
Ale	exandria, VA 22313-1450		Att	orney Docket No.	<u>150622</u>	
	ase record the attached document. al number of pages including cover she	et, attachments, and docume	ent: <u>3</u>			
3.	A. Name of conveying parties: (1) Yoshitaka SASAKI (2) Hiroyuki ITO (3) Shigeki TANEMURA (4) Kazuki SATO (5) Atsushi IIJIMA B. Additional name(s) of conveying Yes A. Nature of conveyance: Assignment Security Agreement Other B. Execution Date: (1)-(4) Octo	g party(ies) attached? No Merger Change of Name	(1) HEZ 678 MII UN (2) SAI SAI 6 SG HO SHA	S. HILLVIEW LPITAS, CA 950 ITED STATES E MAGNETICS E TECH. CENTICIENCE PARK NG KONG SCII ATIN, N.T., HO INA al name(s) & addres	NOLOGIES, INC. DR. D35 OF AMERICA (H.K.) LTD. RE EAST AVE. ENCE PARK NG KONG	
4.	 A. Patent Application No. <u>13/224</u> C. Title of Application: THIN- 	Additional numbers attack			ACTURING THE	
	C. Title of Application: THIN-FILM MAGNETIC HEAD, METHOD OF MANUFACTURING THE SAME, HEAD GIMBAL ASSEMBLY, AND HARD DISK DRIVE					
5.	Name and address of party to whom c concerning document should be maile		6. Total number of	of applications and	patents involved: 1	
	Name: James A. Oliff				count No. 15-0461 the ne amount of \$40.00.	
	Address: OLIFF & BERRIDGE P.O. Box 320850 Alexandria, VA 22320 Phone Number: 703-83 Fax Number: 703-836	0 0-4850 36-6400		rpayment or charge t number 15-0461.	any underpayment to	
9.	Statement and signature. To the best of my knowledge and belioriginal document. James A. Oliff, Registration No. 27,0	75		and any attached co		
	Vitaliy L. Orekhov, Registration No.	00,/JI				

PATENT REEL: 027288 FRAME: 0844

ASSIGNMENT (Two Assignees)

Insert (1) Nomic(s) (2) Hiroyuli iTO (3) Shigeki TANEMURA (6) Taxushi IIIIMA (7) Taxushi IIIIMA (8) Taxushi IIIIMA Taxushi IIIIMA (8) Taxushi IIIMA (8) Taxushi				(····-	,			
Shigeki TANEMURA 60 Increasion of the same of one duller (\$1,00 and other good and valuable consideration paid to each of the tune-singula, each indempted agrees to using, and heady does assign, transfer and set over to each of the tune-singula, each indempted agrees to using, and heady does assign, transfer and set over to Assignee (9A) Insert Name of First Assignee (9A) Insert Address of First Assignee (9A) Insert Name of Second Assignee (9A) Insert Name of Second Assignee (9A) Insert Address of Second Assignee (10A) (10B) SAE Teach Center, 6 Science Paik Sead Ave, Hong Kong Scurece Park, Shalin, N.T., Hong Kong China Assignee (10B) SAE Teach Center, 6 Science Paik Sead Ave, Hong Kong Scurece Park, Shalin, N.T., Hong Kong China and Insert	(#. 6)			······································		(4)		
In coordiferration of the sum of one delite (\$1.00) and other good and valuable consideration paid to ask of the undersigned, each otherwisigned agrees to askign, and hereby does askign, transfer and act over to be askign. An algere (104) Insert Address of First Assignee (104) Insert Address of First Assignee (104) [106] Assignee (104) [107] [108] Assignee (108) [108] [(1-8)	• • •				(5)	Atsushi IIJIMA	
Company Comp		of Inventor(s)	(3)					
Assignee (PA) Insert Address of First Assignee (PB) Insert Name of Second Assignee (PB) Insert Address of Second (PB) Insert Address of Second Assignee (PB) Insert Address of Second (PB) Insert Address of	(O.4.)	Towns Nove of Proceedings	each of t	In consideration of the sum the undersigned, each undersigned.	of one dollar (\$1.) ned agrees to ass	00) and ign, an	d other good and valuable con id hereby does assign, transfer	sideration paid to and set over to
Assignee (108)	(9A)		(9A) HEADWAY TECHNOLOGIES, INC.					
Assigner (10B) Insert Address of Second Assigner (11) Insert Date of Signing of (12) Insert Date of Signing of (13) U.S. Application String leads to execute all papers necessary in connection with the applications for patents for the United States of America as definition for filed applications for patents including any and all provisional, inser-provisional, divisional, continuation, in the special papers and papers and papers and all	(10A)		(A01)	678 S. Hillview Dr., Milp	tas, CA 95035	Unite	d States of America	
Assigner (Interimiter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, confirmating, substitute and reissee applications, and all Letters Patent, extensions, reissues in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, confirmating, substitute and reissee applications, non-provisional, divisional, continuation, international, continuation, or entire and international provisional provisional provisional, divisional, continuation, international, continuation, or entire and international provisional provisional, divisional, continuation, international, continuation or entire and international provisional provisional and international provisional		Assignee	(9B)	SAE MAGNETICS (H.K.	LTD.			
enture right, title and interest for the United States of America as defined in \$2 U.S.C. \$100, in the invention in all applications for pattern including any and all provisional, non-provisional, distinctional, continuation, international, continuation, substitute and reissue application(s), and all Letters Pattern, extensions, reissues recommination overlifeates that may be granted on the invention towns as a strike, Case Number or Foreign Application Number Attorney Docket No. 150622 for which the undessigned has (have) executed an application for patent in the United States of America on even date herewith or continuation. Insert Date of Signing of (12) (1)-(4) 10.17.11 (5) 10.20.11 Alternative (13) U.S. Application Serial Number Ideal Insert Numbe	10B)		(10B)	SAE Tech. Centre, 6 Science P.	ark East Ave., Hon	g Kon	g Science Park, Shatin, N.T., He	ong Kong, China
Insert Date of Signing of Signing of On One of Market Date of Signing of On One of Market Date of Signing of On One of Signing of One of of			in all ap internati	gnt, title and interest for the L plications for patent includin lonal, confirmation, substitute	Inited States of A g any and all pro- and reissue app	meric visiona licatio	a as defined in 35 U.S.C. §1 al, non-provisional, divisiona n(s), and all Letters Patent e	00, in the invention, a
Identification, such as Trille, Case Number or Foreign Application Number Attorney Docket No. 150622 for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or 12) Insert Date of Signing of (12) on (1)-(4) 10.17.11 (5) 10.20.11 Application 13) Alternative Identification for filted applications filed September 2, 2011 1) Each undersigned agrees to execute all papers necessary in connection with the application and any continuing, divisional or reissue applications for the invention, and any parent(s) issuing thereon, and also to execute separate assignments in connection with such applications and attents as the Assignees may deem necessary; in connection with may interference which may be declared concerning this policitation or continuation or division thereof, or any patent or reissue application based thereon, and also to execute separate assignments in connection with each satignees may deem necessary in connection with any interference which may be declared concerning this policitation or continuation or division thereof, or any patent or reissue application based thereon, and to cooperate with the Assignees in every way or such as a su	11)	Insert	(11)	THIN-FILM MAGNI	ETIC HEAD.	ME	THOD OF MANUFA	CTURING
Application Number Attorney Docket No. 150622 for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or (12) Insert Date of Signing of (12) (1)-(4) 10.17.11 (5) 10.20.11 Application (13) Alternative (13) U.S. Application Serial 13/224,954 Identification for filled applications filled September 2, 2011 (14) Each undersigned agrees to execute all papers necessary in connection with the application and any continuing, divisional or reissue pplications for the invention, and any patents) issuing thereon, and also to execute separate assignments in connection with such applications and setters as the Assignees may deem necessary. (2) Each undersigned aggrees to execute all papers necessary in connection with any interference which may be declared concerning this pplication or continuation or division thereof, or any patent or reissue application based thereon, and to cooperate with the Assignees in every way. (3) Each undersigned aggrees to execute all papers necessary in connection with any interference which may be necessary in connection with such interference which may be necessary in connection with a cooperate with the Assignees in every way. (3) Each undersigned aggrees to execute all papers and documents and perform any act which may be necessary in connection with claims or rovisions of the International Convention for Protection of Industrial argreements. (4) Each undersigned aggrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination grant of a valid United States resulting from said application or any divisional, continuing or reissue applications to the sais females. (5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all Letters attents of the United States resulting from said application or any divisional, continuing or reissue application to the data females. (5) Each undersigned aggrees to		•	•					
for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or 12) Insert Date of Signing of (12) (1)-(4) 10.17.11 (5) 10.20.11 Application 13) Alternative (13) U.S. Application Serial Number 13/224,954 Identification for filed applications filed September 2, 2011 14) Each undersigned agrees to execute all papers necessary in connection with the application and any continuing, divisional or reissue pplications for the invention, and any patently issuing thereon, and also to execute separate assignments in connection with such applications and attents as 2. A holy an experiment of the papers necessary in connection with may interference which may be declared concerning this question or continuation or division hereof, or any patent or reiessue application based thereon, and to cooperate with the Assignees in every way so the international Committee of the papers necessary in connection with any interference which may be necessary in connection with such interference with may interference which may be necessary in connection with early application or original give international Committee of the U.S. Patent and Trademark Office to issue any and all Letters at the papers of the U.S. Patent and Trademark Office to issue any and all Letters at the substitute of the substitute of the Assignment of a valid United States resulting from said application or any divisional, continuing or reissue applications to the said separes, as Assignment of the United States resulting from said application or any divisional, continuing or reissue applications to the said separes, as Assignment of a valid United States resulting from said application of the U.S. Patent and Trademark Office to issue any and all Letters at a covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any generation of the United States resulting from said application or any divisional, continuing or reissue applic		•	·					
Insert Date of Signing of (12) on (1)-(4) 10.17.11 (5) 10.20.11 Application Application Alternative (13) U.S. Application Serial Number 13/224,954 Identification for filed applications filed September 2, 2011 1) Each undersigned agrees to execute all papers necessary in connection with the application and any continuing, divisional or reissue applications for the invention, and any patents(s) issuing thereon, and also to execute separate assignments in connection with such applications and attents as the Assignees may deem necessary. 2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning this polication or continuation of division thereof, or any patent or reissue application based thereon, and to cooperate with the Assignees in every way ossible in obtaining evidence and going forward with such interference. 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or rovisions of the International Convention for Protection of Industrial Property or similar agreements. 4) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or rovisions of the International Convention for Protection of Industrial Property or similar agreements. 4) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or rovisions of the United States patent to the Assignees. 5) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or revovations of the U.S. Patent and Trademark Office to issue any and all Letters actes of the United States resulting from said application or any divisional, continuing or reissue applications to the said Assignees, as Assignees of the United interest termine assigned, and that he has not exclude, and will not execute a paper and the par		Application Number	Attorney Docket No. 150622					
Insert Date of Signing of (12) on (1)-(4) 10.17.11 (5) 10.20.11 Application (13) Alternative (13) U.S. Application Serial Number 13/224,954 Identification for filed applications filed September 2, 2011 (1) Each undersigned agrees to execute all papers necessary in connection with the application and any continuing, divisional or reissue applications for the invention, and any patents) issuing thereon, and also to execute separate assignments in connection with such applications and attents as the Assignees may deem necessary. 2) Each undersigned agrees to execute all papers necessary in connection with any interference which may declared concerning this application or cominuation or division thereof, or any patent or reissue application based thereon, and to cooperate with the Assignces in every way ossible in obtaining evidence and going forward with such interference. 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or rovisions of the International Convention for Protection of Industrial Property or similar agreements. 4) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or rovisions of the International Convention for Protection of Industrial Property or similar agreements. 4) Each undersigned hardrorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all Letters actems of the United States resulting from said application or any divisional, continuing or reissue applications to the said Assignees, as Assignees of the United States resulting from said application or any divisional, continuing or reissue applications to the said Assignees, as Assignees of the United States resulting from said application or any divisional, continuing or reissue applications to the said Assignees, as Assignees of the Unite interest, and the has not execute, any agreements in conflict herewith, and agrees that this assign			for which even date	n the undersigned has (have) enderewith or	ecuted an applic	ation f	or patent in the United States	of America on
Application 3) Alternative (13) U.S. Application Serial 13/224,954 Identification for filed applications filed September 2, 2011 1) Each undersigned agrees to execute all papers necessary in connection with the application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and stents as the Assignees may deem necessary. 2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning this spilication or continuation or division thereof, or any patent or reissue application based thereon, and to cooperate with the Assignees in every way sussible in obtaining evidence and going forward with such interference. 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or ovisions of the International Convention for Interference. 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or ovisions of the International Convention for Interference. 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination grant of a valid United States perint to the Assignees. 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all Letters at the state of the United States resulting from said application or any divisional, continuing or reissue applications to the said Assignees, as Assignees of the trine interest herein assigned, and that he has not executed, and will not execute, any prements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, assigns and legal representatives. 6) Each undersigned hereby grants the firm of Outra & Berkentoe, Fu.C the power to insert on this assignment and f	12)	Insert Date of						
Application Alternative (13) Number 13/224,954 Identification for filed applications filed September 2, 2011 1) Each undersigned agrees to execute all papers necessary in connection with the application and any continuing, divisional or reissue plications for the invention, and any patient(s) issuing thereon, and also to execute separate assignments in connection with such applications and tents as the Assignees may deem necessary. 2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning this plication or continuation or division thereof, or any patient or reissue application based thereon, and to cooperate with the Assignees in every way substible in obtaining evidence and going forward with such interference. 3) Each undersigned agrees to execute all papers necessary in connection with any act which may be declared concerning this plication or continuation or division thereof, or any patient or reissue applications of which the material convention for Protection of Industrial Property or similar agreements. 4) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or ovisions of the International Convention for Industrial Property or similar agreements. 5) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination of a while United States resulting from said application or any divisional, continuing or reissue applications to the said Assignees, as Assignees of the time interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any remements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, agrees and legal representatives, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed any visual rep		Signing of		(1)-(4) 10.17.1	(5) 10.2	0.11		
Identification for filed spelications filed September 2, 2011 1) Each undersigned agrees to execute all papers necessary in connection with the application and any continuing, divisional or reissue plications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and tents as the Assignees may deem necessary. 2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning this plication or continuation or division thereof, or any patent or reissue application based thereon, and to cooperate with the Assignees in every way saible in obtaining evidence and going forward with such interference. 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or visions of the International Convention for Protection of Industrial Property or similar agreements. 4) Each undersigned agrees to perform all affirmative acts which may be necessary to connection with claims or visions of the International Convention for Protection of Industrial Property or similar agreements. 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination years of a valid United States patent to the Assignees. 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all Letters tents of the United States resulting from said applications or any divisional, continuing or reissue applications to the said Assignees, as Assignees of the time interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any remembers in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, assigns and legal representatives. 6) Each undersigned hereby grants the firm of Outer & Berrindee, Pu		Application	Oli					
filed applications filed September 2, 2011 1) Each undersigned agrees to execute all papers necessary in connection with the application and any continuing, divisional or reissue plications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and tents as the Assignees may deem necessary. 2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning this plication or continuation or division thereof, or any patent or reissue application based thereon, and to cooperate with the Assignees in every way sible in obtaining evidence and going forward with such interference. 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or obtains of the International Convention for Protection of Industrial Property or similar agreements. 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination and valid United States patent to the Assignces. 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all Letters tents of the United States resulting from said application or any divisional, continuing or reissue applications to the said Assignces, as Assignces of the tire interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any remembra in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, assigns and legal representatives. 6) Each undersigned hereby grants the firm of OLIPF & BERRINGE, P.L.C the power to insert on this assignment assignment with the proposition of the United States Patent and Trademark Office for recordation of this document. In witness whereof, executed by the undersigned on the date(s) opposite the undersig	3)	Alternative		J.S. Application Serial	13/22	4,95	4	
1) Each undersigned agrees to execute all papers necessary in connection with the application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and tents as the Assignees may deem necessary. 2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning this piplication or continuation or division thereof, or any patent or reissue application based thereon, and to cooperate with the Assignees in every way sosible in obtaining evidence and going forward with such interference. 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or ovisions of the International Convention for Protection of Industrial Property or similar agreements. 4) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or ovisions of the International Convention for Protection of Industrial Property or similar agreements. 4) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or ovisions of the International Convention for Protection of Industrial Property or similar agreements. 5) Each undersigned agrees to execute the Commissioner of the U.S. Patent and Trademark Office to issue any and all Letters tents of the United States resulting from said application or any divisional, continuing or reissue applications to the said Assignees, as Assignees of the time interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not execute, and will not execute, any remembers, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any executed the entire interest, and covenants that he full right		Identification for				***************************************		
acted and some continuations for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and attents as the Assignees may deem necessary. 2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning this opplication or continuation or division thereof, or any patent or reissue application based thereon, and to cooperate with the Assignees in every way assible in obtaining evidence and going forward with such interference. 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or covisions of the International Convention for Protection of Industrial Property or similar agreements. 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination grant of a valid United States patent to the Assignees. 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all Letters attents of the United States resulting from said application or any divisional, continuing or reissue applications to the said Assignees, as Assignees of the united States resulting from said application or any divisional, continuing or reissue applications to the said Assignees, as Assignees of the United States over the uniter interest herein assigned, and that he has not executed, and will not execute, any greements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, assigns and legal representatives. 6) Each undersigned hereby grants the firm of OLIFF & BERRIDGE, PLC the power to insert on this assignment any further identification that any be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document. Inventor Signature Inventor Signature Inventor Signature Invento		filed applications	filed	September 2, 201				
Inventor Signature Inventor Signature Inventor	pplications application ossible rovision grant or attents on tire integreement	s the Assignees may deem neces: 2) Each undersigned agrees to on or continuation or division the in obtaining evidence and going 3) Each undersigned agrees to so of the International Convention 4) Each undersigned agrees to fa valid United States patent to t 5) Each undersigned authorize f the United States resulting from erest, and covenants that he has f tas in conflict herewith, and agree 6) Each undersigned hereby ge ecessary or desirable in order to o	execute all pereof, or any forward with execute all per for Protecti perform all the Assignees as and reques a said applicatell right to cless that this rants the firm comply with	papers necessary in connection patent or reissue application be such interference. Dapers and documents and per on of Industrial Property or-sin affirmative acts which may be its the Commissioner of the Lation or any divisional, continuously the entire interest herein assignment is binding on him of OLIFF & BERRIDGE, PLC the rules of the United States	with any interfer ased thereon, and form any act which interest agreements. In the control of th	ence we to cook to cook th may in, ma Traden olication at he h success t on th nark O	which may be declared concern operate with the Assignees in of the necessary in connection we intain or confirm by reissue of mark Office to issue any and ons to the said Assignees, as A as not executed, and will not essors, assigns and legal repro- iss assignment any further ide office for recordation of this do	ning this every way with claims or r reexamination all Letters Assignees of the execute, any esentatives, officiality that
Inventor Signature 10 17	ate	10/10	12		3,2			4
Inventor Signature 10 17 Inventor Signature Roywri September (SEAL) ate	-	10/17/	^//		21/-		Property of the state of the st	(SEAL)
Inventor Signature Inventor Signature Inventor Signature Inventor Signature Inventor Signature (SEAL) This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, en it should be signed before at least two witnesses who also sign here: The Signature (SEAL) Witness This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, en it should be signed before at least two witnesses who also sign here: The Signature (SEAL) Witness This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, en it should be signed before at least two witnesses who also sign here:	_	10/17/	11		Pu	1	1. Simon	. ,
Inventor Signature (SEAL) Inventor Signature (SEAL) This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, en it should be signed before at least two witnesses who also sign here: Witness Mannager 10 17 17 18 Witness Mannager 10 17 18 18 18 18 18 18 18 18 18 18 18 18 18	-	10/17/	11	-	Rosw	AV V	. Serte	,
This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, on it should be signed before at least two witnesses who also sign here: Witness Witness	ete _							
the 10/17/1/ Witness	ate _			Inventor Signature				
10/17/2	en it she	This assignment should preferabould be signed before at least two	ly be signed witnesses w	before: (a) a Notary Public if who also sign here;	vithin the U.S.A.	(b) a l	J.S. Consul if outside the U.S.	A. If neither,
	ate	10/17/1	1	Witness	mo	im	in	
		10/17/2	11	33/54	(X)	II'	1	

REEL: 027288 FRAME: 0845

ASSIGNMENT (Two Assignees)

			(Two Assigne	ees)				
	Insert	(1)	Yoshitaka SASAKI	(4) Kazuki SATO	-		
(1-8)	Name(s)	(2)	Hiroyuki ITO	(5		**************************************		
	of Inventor(s)	(3)	Shigeki TANEMURA	(6)			
		each o	In consideration of the sum of f the undersigned, each undersign	one dollar (\$1.00) one dollar (\$1.00) one dollar (\$1.00).	and other good and valuable consideration and hereby does assign, transfer and set or	paid to ver to		
(9A)	Insert Name of First Assignee	(9A)	HEADWAY TECHNOLOGIES, INC.					
(10A)	Insert Address of First Assignee	(10A)	678 S. Hillview Dr., Milpitas, CA 95035 United States of America					
(9B)	Insert Name of Second Assignee	(9B)	SAE MAGNETICS (H.K.) LTD.					
(10B)	Insert Address of Second Assignee	(10B)	SAE Tech. Centre, 6 Science Park East Ave., Hong Kong Science Park, Shatin, N.T., Hong Kong, China					
		entire in all : intern	right, title and interest for the Ur applications for patent including	nited States of Ame any and all provision and reissue applica	eirs, successors, assigns and legal represe rica as defined in 35 U.S.C. §100, in the onal, non-provisional, divisional, continu- tion(s), and all Letters Patent, extensions, ention known as	invention, and		
(11)	Insert	(11)	THIN-FILM MAGNE	TIC HEAD, M	ETHOD OF MANUFACTURI	NG		
	Identification, such as Title, Case		THE SAME, HEAD GIMBAL ASSEMBLY, AND HARD DISK DRIVE					
	Number or Foreign Application Number	Attorney Docket No. 150622						
		n for patent in the United States of Americ	а оп					
(12)	Insert Date of	(12)						
	Signing of	(12) on	(1)-(4) 10.17.11	(5) 10.20.1	1			
	Application							
(13)	Alternative	(13) Number	U.S. Application Serial	13/224,9	954			
	Identification for		•					
	filed applications	filed	September 2, 201	1	<u> </u>			
patents a application possible provisior a grant o Patents o entire int agreemen may be n	ons for the invention, and any pass the Assignees may deem neces 2) Each undersigned agrees to on or continuation or division the in obtaining evidence and going 3) Each undersigned agrees to so of the International Convention 4) Each undersigned agrees to fa valid United States patent to to 5) Each undersigned authorized the United States resulting from erest, and covenants that he has stated in conflict herewith, and agree 6) Each undersigned hereby greecessary or desirable in order to the states are supported to the conflict herewith and agree 6) Each undersigned hereby greecessary or desirable in order to the states are supported in order to the states are supporte	tent(s) issues ary. e execute a creof, or ar forward we execute a n for Prote perform a she Assigned a said applicall right to test that the facomply wi	ling thereon, and also to execute so a paper of the United for any discount of the United States Paper of th	eparate assignments with any interference sed thereon, and to commany act which milar agreements, eccessary to obtain, S. Patent and Tracing or reissue applicassigned, and that hand his heirs, such a power to insert or attent and Trademark	and any continuing, divisional or reissue in connection with such applications and which may be declared concerning this cooperate with the Assignces in every way hay be necessary in connection with claims maintain or confirm by reissue or reexamination to the said Assignces, as Assignces at e has not executed, and will not execute, and essors, assigns and legal representative in this assignment any further identifications.	s or nation of the ny		
Date	in witness whereol, executed i	y the und	lersigned on the date(s) opposite Inventor Signature	_	• •	OF A		
Date			Inventor Signature			SEAL) SEAL)		
Date			Inventor Signature	, , , , , , , , , , , , , , , , , , ,		SEAL)		
Date			Inventor Signature		,	SEAL)		
Date -	20/001/201		Inventor Signature	Alwen	Legina (SEAL)		
Date _		· · · · · · · · · · · · · · · · · · ·	Inventor Signature			SEAL)		
then it sh	This assignment should preferabould be signed before at least two	ly be signe witnesses	ed before: (a) a Notary Public if with who also sign here:	thin the U.S.A. (b)	a U.S. Consul if outside the U.S.A. If nei	ither,		
Date			Witness					

RECORDED: 11/16/2011 REEL: 027

PATENT REEL: 027288 FRAME: 0846