01-29-2004

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U.S. DEPARTMENT OF COMMERCE

I CIVID ING. UGG I-UUZ7 (EXD. U/GU/ZUUG)	U.S. Faterit and Trademark Office			
	Please record the attached original documents or copy thereof.			
1. Name of conveying party(ies): TaiVie Chiang WingKong Chiang KianKeong Ooi	2. Name and address of receiving party(ies) Name: Seagate Technology LLC Internal Address:			
Additional name(s) of conveying party(ies) attached? [절] Yes 다 No	27			
3. Nature of conveyance:				
Assignment				
☐ Security Agreement ☐ Change of Name	Street Address: 920 Disc Drive			
☐ Other				
· · · · · · · · · · · · · · · · · · ·	City: Scotts Valley State: CA Zip: 95066			
Execution Date December 15, 17, and 22, 2003	Additional name(s) & address(es) attached? 니 Yes 및 No			
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: 1-21-04 A. Patent Application No.(s) 1076 1475 B. Patent No.(s)				
Additional numbers attached?				
concerning document should be mailed: Name:Seagate Technology LLC Internal Address:SHK2LG	7. Total fee (37 CFR 3.41)\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
Street Address: 1280 Disc Drive	Authorized to be charged to deposit account 8. Deposit account number: 19-1038			
City: Shakopee State: MN Zip: 55379	(Attach duplicate copy of this page if paying by deposit account)			
DO NOT USE THIS SPACE				

9. Statement and signature.

Form **PTO-1595**

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.

Kirk A. Cesari

Name of Person Signing
00000161 191038 10761475
Total number of pages including cover sheet, attachments, and documents:

01/28/2004 ECOOPER 00000161 191038

01 FC:8021

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

	PATENTS ONLY (Form PTO-1595)				
1.	Name of conveying party(ies):				
	KianSoon Yeo				
	MingZhong Ding				
	Additional name(s) of conveying party(ies) attached?	☐ Yes ☑ No			
	Name and address of receiving party(ies) Name:				
	Internal Address:				
	Street Address: State:	ZIP:			
	Name and address of receiving party(ies) Name:				
	Internal Address:Street Address:				
	City: State:				
	Additional name(s) & address(es) attached?				
4.	Application number(s) or patent number(s):				
	If this document is being filed together with a new applica	ation, the execution date of the application is:			
	A. Patent Application No.(s)	B. Patent No.(s)			
	Additional numbers attached?	Yes No			

PATENT REEL: 014915 FRAME: 0568

ASSIGNMENT

Seagate Docket No.:

STL11658

WHEREAS, I/we TaiVie Chiang of Blk 727 Tampines St 71 #08-07, Singapore 520727, WingKong Chiang of Blk 972 Hougang St 91 #07-190, Singapore 53097, KianKeong Ooi of Blk 55 Tampines Ave 1 #03-01 Singapore 529773 KianSoon Yeo of Blk 713 Pasir Ris St 72, #08-41, Singapore 510713 and MingZhong Ding of Blk 539 Bukit Batok St 52 #12-581, Singapore 650539 are the inventor(s) of an invention entitled Head Polarity Detection Algorithm And Apparatus is the subject matter of: (check all that apply) e

	a provisional application for L	etters Patent which is identifiable in the	e United States Patent and Trademark Offic
	by Application No	filed on	:
\boxtimes	an application for Letters Pate	ent which is identifiable in the United S	tates Patent and Trademark Office by
	Application No	filed on	and/or executed on even date
	herewith: and		
	an international application for	Letters Patent filed pursuant to the Pa	atent Cooperation Treaty which is
	identifiable in the United State	s Receiving Office by Application No.	filed on
	; ar	d/or executed on even date herewith:	
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WHEREAS, Seagate Technology LLC, a limited liability company organized and existing under the laws of the State of Delaware and the United States of America, and having offices at 920 Disc Drive, Scotts Valley, California, 95066 USA, ("Assignee") is desirous of acquiring the entire right, title and interest in and to the invention, the applications, and any and all Letters Patent or similar foreign or domestic legal protection:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, I/we transfer to Assignee, its successors and assigns, my/our entire right, title and interest in and to the invention, the above-identified applications, all provisional applications from which any of the aboveidentified applications claim priority, corresponding domestic and foreign applications, any continuation, division renewal, or substitute for the applications, all Letters Patent, any reissue, re-examination, or similar legal protection issuing related to the Letters Patent, and all rights and benefits under any applicable treaty or convention; and I/we authorize the Director of the United States Patent and Trademark Office or foreign equivalent to issue the Letters Patent or similar legal protection to the Assignee.

I/We authorize the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and application numbers when ascertained. I/We further authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries and appoint Assignee the common representative in the above identified international application and any international application for the invention.

I/We represent to the Assignee, its successors and assigns, that I/we have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I/We, my/our executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns. execute and deliver to Assignee or its legal representatives such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries, including without limitation providing testimony in any related interference, litigation or proceeding.

Foreign Assignment Seagate Technology LLC

Rev. January 10, 2001

PATENT

REEL: 014915 FRAME: 0569

	TaiVie Ch	iang (Inventor)	
ubscribed and sworn to before me at _ is day of, 20			, a witness
	Witness		
	witness		
	WingKan	Chian (layantar)	
		g Chiang (Inventor)	
ubscribed and sworn to before me at _ is <u>2 2</u> day of <u>December</u> , 20 <u>0 3</u> .	Jeagate lechnolog	y International	, a witness,
	min g	show	
· · · · · · · · · · · · · · · · · · ·	Witness		
· ·	N		
	KianKeon	ng Ooi (Inventor)	
ubscribed and sworn to before me at _ is day of, 20			, a witness
s day or, 20			
	Witness		<u>_</u>
	KianSoon	n Yeo (Inventor)	
ubscribed and sworn to before me at _ is day of, 20			, a witness,
	Witness		
	MingZhor	ng Ding (Inventor)	
ubscribed and sworn to before me at _ nis, 20		····	, a witness,
	Witness		

Foreign Assignment Seagate Technology LLC

-2-

Rev. January 10, 2001

•	a	TaiVie Chiang (Inventor)	
Subscribed and sworn to before me at _ his <u> </u>	SEAGATE	Witness LEE WEI SUNG	, a witness,
		WingKong Chiang (Inventor)	
Subscribed and sworn to before me at, 20		· · · · · · · · · · · · · · · · · · ·	, a witness,
		Witness	
		KianKeong Ooi (Inventor)	-
Subscribed and sworn to before me at his, 20, 20	Sengate		, a witness,
		Witness Teny Jack Ming	-
Subscribed and sworn to before me at this 15 day of become, 2003.	Spaglite !	KianSoon Yeo (Inventor)	, a witness,
<u></u> , <u></u> , <u></u> .		Vitness WANG JIA	hŢI
		MingZhong Ding (Inventor)	-
Subscribed and sworn to before me at this _{ day of _Dee, 20_63.	Seagate	Science Park.	, a witness,
uilo _() uay 01, 20_02.		Witness WANG J24	ints.
Foreign Assignment Seagate Technology LLC		-2- R	ev. January 10, 2001

RECORDED: 01/21/2004

PATENT REEL: 014915 FRAME: 0571