	)2-25-2002	
Form <b>PTO-1595</b> (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002) Tab settings ⇔ ⇔ ♥	101991872	S. DEPARTMENT OF COMMERCUS. DEPARTMENT OF COMMERCUS. Patent and Trademark Office
To the Honorable Commissioner of Patents	ind Trademarks: Please record the attached original	documents or copy thereof
<ol> <li>Name of conveying party(ies):</li> <li>Michael Allen Seigler</li> <li>Petrus A. Van Der Heijden</li> </ol>	2. Name and address of re Name: Seagate Technol	ceiving party(ies)
Additional name(s) of conveying party(ies) attached?		
3. Nature of conveyance:		
Assignment		
	e of Name	Drive
Other		
11/28/2001 Execution Date:	City: <u>Scotts Valley</u>	State:_ <sup>CA</sup> _Zip:_ <sup>95066</sup>
4. Application number(s) or patent number(		es) attached? 🔄 Yes 🖌 No
Addit 5. Name and address of party to whom corr	nal numbers attached? Yes No	<u></u>
concerning document should be mailed:		
Name:Dennis M. Carleton	7. Total fee (37 CFR 3.41)	\$_40.00
Buchanan Ingersoll Internal Address:	Enclosed	
	Authorized to be char	ged to deposit account
Street Address: One Oxford Centre, 20th	8. Deposit account number:	
, 2011	02-4553	
City:_PittsburghState:_PA_Zip:_15219		
DBYRNE 00000164 09683191	O NOT USE THIS SPACE	
9. Signature.		
Dennis M. Carleton, Reg. No. 40,938	ADDES :	1/11/100
Name of Person Signing	Cionatura	4 · w w
rame of reason bigning	Signature	*Date

of Patents & Trademarks, Box Assignments Washington, D.C. 20231

> PATENT REEL: 012589 FRAME: 0322

				Sample For	m (former PTO/SB/15) (05-0
Λ (				Docket Number (Optional)	
ASSIGNMENT OF APPLICATION		7 IN	010950		
Whereas, I/We, _1	Michael Allen Se	igler o	f <u>Pittsburgh</u>	<u>, PA</u>	,hereafter
referred to as app	licant, have invented	d certain new and	l useful improveme	nts in BIASED	CPP SENSOR
USING SPIN-MON	MENTUM TRANSFER				
for which an a	application for a Unit	ad States Datest	was filed on		
				<u> </u>	, , , , , , , , , , , , , , , , , , ,
Application	umber/	····	•		
X for which an a	application for a Unit	ed States Patent	was executed on _		, and
Whereas, Seagato Seagat	ate Technology se mailing address is	LLC of Scotts 920 Disc Driv	Valley, Califor ve, Scotts Valle	rnía ey, CA 9506	herein referred
-	ing the entire right, t				
	5		,		
acknowledged, an	id other good and va	aluable considera	tion, I/We, the appl	licant(s), by the	se presents do sell,
acknowledged, an assign and transfe and the entire rigi United States, I/W United States Pate use and behoof; a said Patent may assignment and sa	Id other good and va er unto said assigne ht, title and interest re hereby authorize a ent to said assigned and for the use and h be granted, as full ale not been made.	aluable considera te the full and exc in and to any a and request the C e, of the entire rig behoof of his lega y and entirely as	ition, I/We, the applicition, I/We, the applicituation of the second sec	licant(s), by the said invention i ch may be gra- atent and Trade est in and to the so the full end o have been he	se presents do sell, n the United States nted therefor in the marks to issue said same, for his sole f the term for which eld by me had this
acknowledged, an assign and transfe and the entire rigi United States, I/W United States Pate use and behoof; a said Patent may assignment and sa	Id other good and va er unto said assigne ht, title and interest re hereby authorize a ent to said assigned and for the use and h be granted, as full ale not been made.	aluable considera te the full and exc in and to any a and request the C e, of the entire rig behoof of his lega y and entirely as	ition, I/We, the applicition, I/We, the applicituation of the second sec	licant(s), by the said invention i ch may be gra- atent and Trade est in and to the so the full end o have been he	se presents do sell, n the United States nted therefor in the marks to issue said same, for his sole f the term for which eld by me had this
assign and transfe and the entire rigi United States, I/W United States Pate use and behoof; a said Patent may assignment and sa Executed this	Id other good and va er unto said assigne ht, title and interest 'e hereby authorize a ent to said assigned ind for the use and h be granted, as full	aluable considera te the full and exo in and to any a and request the C te, of the entire rig behoof of his lega y and entirely as day of	ition, I/We, the applicition, I/We, the applicituation of the second sec	licant(s), by the said invention i ch may be gra- atent and Trade est in and to the so the full end o have been he	se presents do sell, n the United States nted therefor in the marks to issue said same, for his sole f the term for which eld by me had this
acknowledged, an assign and transfe and the entire rig United States, I/W United States Pate use and behoof; a said Patent may assignment and sa Executed this at State of <u>FEMMS</u> County of <u>AUEG</u>	Id other good and va er unto said assigne ht, title and interest re hereby authorize a ent to said assigned and for the use and t be granted, as full ale not been made.	aluable considera e the full and exc in and to any a and request the C e, of the entire rig behoof of his lega y and entirely as day of	Ition, I/We, the appl clusive right to the s nd all Patents whic Commissioner of Pa ght, title, and intere al representatives, t is the same would in ULM BUZ	licant(s), by the said invention i ch may be grai atent and Trade ist in and to the so the full end o have been he , 20	se presents do sell, n the United States nted therefor in the marks to issue said e same, for his sole f the term for which eld by me had this
acknowledged, an assign and transfe and the entire rigi United States, I/W United States Pate use and behoof; a said Patent may assignment and sa Executed this at State of <u>TENNS</u> County of <u>AUEG</u> Before me person	Id other good and va er unto said assigne ht, title and interest 'e hereby authorize a ent to said assigned ind for the use and to be granted, as fully ale not been made. 28	aluable considera te the full and exc in and to any a and request the C e, of the entire rig behoof of his lega y and entirely as day of	Ition, I/We, the appl clusive right to the s nd all Patents which Commissioner of Pa ght, title, and intere al representatives, t is the same would in UCM BUR Museum Muse	licant(s), by the said invention i ch may be grain atent and Trade set in and to the full end o have been he have been he have been he so the full end o have been he have been he so the full end o have been he hav	se presents do sell, n the United States nted therefor in the marks to issue said e same, for his sole f the term for which eld by me had this
acknowledged, an assign and transfe and the entire rigi United States, I/W United States Pate use and behoof; a said Patent may assignment and sa Executed this	Id other good and va er unto said assigne ht, title and interest re hereby authorize a ent to said assigned and for the use and t be granted, as fully ale not been made. 28	aluable considera te the full and exc in and to any a and request the C e, of the entire rig behoof of his lega y and entirely as 	Ition, I/We, the appl clusive right to the solution all Patents which Commissioner of Pa- ght, title, and intere al representatives, t is the same would a VEM BUZ <u>Mus</u> <u>Mus</u> <u>Charlotte Wiodkowski</u> , <u>Pittehurch Allecte</u>	licant(s), by the said invention i ch may be grai atent and Trade st in and to the full end o have been he defined to the full end o ha	se presents do sell, n the United States nted therefor in the marks to issue said e same, for his sole f the term for which eld by me had this 0.01
acknowledged, an assign and transfe and the entire rigi United States, I/W United States Pate use and behoof; a said Patent may assignment and sa Executed this	Id other good and va er unto said assigne ht, title and interest re hereby authorize a ent to said assigned and for the use and to be granted, as fully ale not been made. 28 <u>AVANIA</u> ) SS <u>AVANIA</u> ) solution (Contemporared said d the foregoing instru- sen, 20 <u>01</u>	aluable considera te the full and exc in and to any a and request the C te, of the entire rig behoof of his lega y and entirely as day of	Ition, I/We, the appl clusive right to the s nd all Patents whic Commissioner of Pa ght, title, and intere al representatives, t is the same would <u>AVEMBER</u> <u>Mu</u> <u>Mu</u> <u>Mu</u> <u>Mu</u> <u>Charlotte Wiodkowski,</u> Pittsburgh, Alleghe My Commission Expires	licant(s), by the said invention i ch may be grai atent and Trade ist in and to the to the full end o have been he , 20 , 20 , 20 , 20 , 20 , 20 , 20 , 20	se presents do sell, n the United States nted therefor in the marks to issue said e same, for his sole f the term for which eld by me had this 001 001 001 001 001 001 001 00
acknowledged, an assign and transfe and the entire rigi United States, I/W United States Pate use and behoof; a said Patent may assignment and sa Executed this at State of <u>PENNS</u> County of <u>ALEG</u> Before me person and acknowledged day of <u>ANENE</u> Seal	Id other good and va er unto said assigne ht, title and interest re hereby authorize a ent to said assigned and for the use and to be granted, as fully ale not been made. 28 <u>AVANIA</u> SS <u>HEAJ</u> sally appeared said d the foregoing instru-	aluable considera te the full and exo in and to any a and request the C e, of the entire rig behoof of his lega y and entirely as day of  <u>Mic HACL</u> A ument to be his fr  s of record of the entitients	Ition, I/We, the appl clusive right to the s nd all Patents whic Commissioner of Pa ght, title, and intere al representatives, t is the same would <u>AVEMBER</u> <u>Mu</u> <u>Mu</u> <u>Mu</u> <u>Mu</u> <u>Charlotte Wiodkowski,</u> Pittsburgh, Alleghe My Commission Expires	licant(s), by the said invention i ch may be grai atent and Trade ist in and to the to the full end o have been he , 20 , 20 , 20 , 20 , 20 , 20 , 20 , 20	se presents do sell, n the United States nted therefor in the marks to issue said e same, for his sole f the term for which eld by me had this 001 001 001 001 001 001 001 00

		Sample Form (former PTO/SB/15) (05-01)					
ASSIGNMENT OF APPLICA		Docket Number (Optional)					
		010950					
Whereas, I/We, Petrus A. Van Der Heijden							
referred to as applicant, have invented certain new and useful improvements in BIASED CPP SENSOR USING SPIN-MOMENTUM TRANSFER							
for which an application for a United States Pat Application Number /							
I for which an application for a United States Patent was executed on, and							
Whereas,       Seagate       Technology       LLC       of       Scotts       Valley,       California       herein       referred         to "assignee"       whose mailing address is 920       Disc       Drive,       Scotts       Valley,       CA       95066       is							
desirous of acquiring the entire right, title and interest in the same;							
Now, therefore, in consideration of the sum of <u>one</u> dollars $(\$1.00)$ , the receipt whereof is acknowledged, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire right, title and interest in and to any and all Patents which may be granted therefor in the United States, I/We hereby authorize and request the Commissioner of Patent and Trademarks to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.							
Executed this $28$ day of $\lambda$	Jovember	, 20 <u>01</u> .					
at	·						
State of PENNSYLVAN.A)	K	Heyden (Signature)					
County of ALEGHENA SS:							
Before me personally appeared said - FETRUS A. VAN DEN HEIJ DEN							
and acknowledged the foregoing instrument to be his free act and deed this $2\mathcal{S}_{}$							
day of NovEMBEN, 2001.	Notarial Seal						
	Charlotte Wlodkowski, Notary F Pittsburgh, Allegheny Count Ny Commission Expires Apr. 12	IV I ALL THE ALL ALL ALL ALL ALL ALL ALL ALL ALL AL					
Note: Signatures of all the inventors or assignees of record of the analyze Recensiver and the analyze Recensive and the analyze are required. Submit multiple forms if more than one signature is required, See below.							
* Total of forms are submitted.							

This form offers a sample or suggested format for an assignment document. This sample form is not an OMB officially approved form.