102692907

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

MOSER et al.

Serial No.: 10/251,270

Filed: 09/20/2002

Atty. Docket No.: Q01-1088-US1

For: "DEMODULATION OF LOW

DENSITY PRINTED MEDIA BURSTS USING INFORMATION FROM HIGHER HARMONICS FOR DISK

DRIVE SELF-SERVO WRITING"

U.S. Patent and Trademark Office Assignment Division Box Assignments, CG-4 1213 Jefferson Davis Highway, Suite 320 Washington, D.C. 20231

Dear Sir:

.....

RECORDATION OF ASSIGNMENT

Document ID No.: 102518332

Group Art Unit: 2651

Examiner:

CERTIFICATE OF MAILING

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HIGHWAY, SUITE 320, WASHINGTON, D.C. 20231, ON THIS 2nd DAY OF

MARCH , 2004

Toneina P Kriege

Please record the attached original documents or copy thereof:

1. Name of conveying party(ies):

Michael Anthony Moser

Ara Patapoutian

Peter McEwen (deceased) by John McEwen, executor

Bin Liu

Bruce Buch

03/11/2004 GTON11

00000025 502198 10251270

01 FC:8021

40.00 DA

2.	Name and address of receiving party(ies):				
		Maxtor Corpo 2452 Clover F Longmont, Co	Basin Drive		
3.	Nature	e of Conveyanc	e:		
	[X] [] []	Assignment Security Agre Other:			Merger Change of Name
	Execu	tion Dates:	December 6, 2 July 20, 2003	2002 by by Johr Peter Mo , 2002 b	
4.	Applic	cation number(s	s) or patent num	nber(s):	
		document is be application is:	ing filed togeth	ner with	a new application, the execution date
	A.	Patent Applica	ation No.(s): 1	0/251,2	70
	B.	Patent No.(s):	None		
5.		and address of be mailed:	party to whom	corresp	ondence concerning the documents
		Tejpal S. Hans Hansra Patent			

6. Total number of applications and patents involved: $\underline{1}$

4525 Glen Meadows Place Bellingham, WA 98226

- 7. Total fee (37 C.F.R. 3.41).....\$40.00
 - [] Enclosed
 - [] Any deficiency in payment of recording fee is authorized to be charged to Deposit Account.
 - [X] Authorized to be charged to Deposit Account.
- 8. Deposit Account Number: 50-2198.
- 9. Statement and signature.

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.

Total number of pages including cover sheet: 33

Respectfully submitted,

Tejpai S. Hansra

Registration No. 38,172 Hansra Patent Services 4525 Glen Meadows Place Bellingham, WA 98226

(360) 527-1400

Date: MARCH 2, 2004

WHEREAS, we, Michael Anthony Moser of 910 Briana Ct., San Jose, CA 95120, Ara Patapoutian of 5 Jasper Street ext., Westborough, MA 01581, Peter McEwen of 450 Oak Grove Drive, #216, Santa Clara, CA 95054, Bin Liu of 6282 Joaquin Murieta Ave., Apt. C, Newark, CA 94560, and Bruce Buch of 21 Old Nourse Street, Westborough, MA 01581, have invented a certain new and useful invention entitled "DEMODULATION OF LOW DENSITY PRINTED MEDIA BURSTS USING INFORMATION FROM HIGHER HARMONICS FOR DISK DRIVE SELF-SERVO WRITING", for which an application for Letters Patent of the United States has been prepared and was filed on September 20, 2002, receiving Serial No. 10/251,270, and further identified as Attorney Docket No. Q01-1088-US1;

NOW THEREFORE, be it known that we, the said inventors, for and in consideration of certain good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, at the request of the assignee do sell, assign and transfer unto said assignee, Maxtor Corporation, a Delaware corporation having a place of business at 2452 Clover Basin Drive, Longmont, Colorado 80503, its successors, legal representatives and assigns, the aforesaid application for the territory of the United States of America and all continuation, divisional, continuation-in-part and reissue applications, all patent applications in foreign countries, all applications pursuant to the Patent Cooperation Treaty, and all applications for extension filed or to be filed for the invention, and all Letters Patent, Invention Registrations, Utility Models, Extensions or Reissues and other patent rights, obtained for the invention in the United States or any other country; we also assign any right, title or interest in and to the invention which has not already been transferred to the assignee; we warrant that we have made no assignment of the invention, application or patent therefor to a party other than Maxtor Corporation and we are under no obligation to make any assignment of the invention, application, or patent therefor to any other party; and we further agree to cooperate with the assignee hereunder in the obtaining and sustaining of any and all such Letters Patent and in confirming assignee's exclusive ownership of the invention, but at the expense of said assignee.

The Commissioner of Patents is hereby authorized and requested to issue the Letters Patent solely in accordance with the terms of this Assignment, to Maxtor Corporation, its successors, legal representatives and assigns, as the assignee of the entire right, title and interest therein.

IN WITNESS WHEREOF, the parties hereto have executed this Assignment as of the date indicated hereunder.

Date: Dec. 11, 2002	By: Michael Anthony Moser
Date:	By:Ara Patapoutian
Date:	By:Peter McEwen

Date:	By:	
	Bin Liu	
Date:	By:	
	Bruce Buch	

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California	•
State of California	ss.
County of Souta Clare	J
On $\frac{\text{Dec.} \prod_{\text{Date}} \text{Date}}{\text{Michael}}$ before me,	Name and fittle of Officer (e.g., "Jane Doe, Notary Public") Name(s) of Signer(s) Dersonally known to me X proved to me on the basis of satisfactory
	evidence
MARY J. ENGLAND Commission # 1303910 Notary Public - California Santa Clara County	to be the person(s) whose name(s) is/ale subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. WITNESS my hand and official seal.
My Corrien, Expires Jun 6, 2005	WITNESS my hand and official seal.
	The state of the Ballion
	Signature of Motary Public
Though the information below is not required by law, it may prove fraudulent removal and reattachmen	valuable to persons relying on the document and could prevent
Description of Attached Document	
Title or Type of Document: Pate A	ssignment
Document Date: Dec. 11, 2003	Number of Pages: +wo
Signer(s) Other Than Named Above: Ara Pat	1
Capacity(ies) Claimed by Signer	h
	NA
Signer's Name: Michael And	Mose RIGHT THUMBPRINT
∑ Individual	Top of thumb here
☐ Corporate Officer — Title(s):☐ Partner — ☐ Limited ☐ General	
☐ Attorney-in-Fact	
☐ Trustee	
☐ Guardian or Conservator☐ Other:	
Signer Is Representing: Self	

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STATE OF)		
COUNTY OF) ss.)		
Before me, a Notary Public in and for known to me to be the person we acknowledged to me that he executed expressed.	hose name is	subscribed to the fo	regoing instrument, and
Given under my hand and se	eal of office this	day of	, 2002.
My Commiss	sion expires:	Notai	ry Public
STATE OF)		
COUNTY OF) ss.)		
Before me, a Notary Public in and f known to me to be the person w acknowledged to me that he exec expressed.	hose name is s	subscribed to the for	regoing instrument, and
Given under my hand and se	eal of office this	day of	, 2002.
		Notar	y Public
My Commiss	ion expires:		

STATE OF)		
) ss.		
COUNTY OF)		
me to be the person whose	ic in and for said County and State name is subscribed to the forego for the purposes and considera	going instrument, and	acknowledged to me
Given under my h	and and seal of office this	day of	, 2002.
		Notary Pu	ıblic
M	Commission expires:		

WHEREAS, we, Michael Anthony Moser of 910 Briana Ct., San Jose, CA 95120, Ara Patapoutian of 5 Jasper Street ext., Westborough, MA 01581, Peter McEwen of 450 Oak Grove Drive, #216, Santa Clara, CA 95054, Bin Liu of 6282 Joaquin Murieta Ave., Apt. C, Newark, CA 94560, and Bruce Buch of 21 Old Nourse Street, Westborough, MA 01581, have invented a certain new and useful invention entitled "DEMODULATION OF LOW DENSITY PRINTED MEDIA BURSTS USING INFORMATION FROM HIGHER HARMONICS FOR DISK DRIVE SELF-SERVO WRITING", for which an application for Letters Patent of the United States has been prepared and was filed on September 20, 2002, receiving Serial No. 10/251,270, and further identified as Attorney Docket No. Q01-1088-US1;

NOW THEREFORE, be it known that we, the said inventors, for and in consideration of certain good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, at the request of the assignee do sell, assign and transfer unto said assignee, Maxtor Corporation, a Delaware corporation having a place of business at 2452 Clover Basin Drive, Longmont, Colorado 80503, its successors, legal representatives and assigns, the aforesaid application for the territory of the United States of America and all continuation, divisional, continuation-in-part and reissue applications, all patent applications in foreign countries, all applications pursuant to the Patent Cooperation Treaty, and all applications for extension filed or to be filed for the invention, and all Letters Patent, Invention Registrations, Utility Models, Extensions or Reissues and other patent rights, obtained for the invention in the United States or any other country; we also assign any right, title or interest in and to the invention which has not already been transferred to the assignee; we warrant that we have made no assignment of the invention, application or patent therefor to a party other than Maxtor Corporation and we are under no obligation to make any assignment of the invention, application, or patent therefor to any other party: and we further agree to cooperate with the assignee hereunder in the obtaining and sustaining of any and all such Letters Patent and in confirming assignee's exclusive ownership of the invention, but at the expense of said assignee.

The Commissioner of Patents is hereby authorized and requested to issue the Letters Patent solely in accordance with the terms of this Assignment, to Maxtor Corporation, its successors, legal representatives and assigns, as the assignee of the entire right, title and interest therein.

IN WITNESS WHEREOF, the parties hereto have executed this Assignment as of the date indicated hereunder.

Date:	By:
	Michael Anthony Moser
Date: 14/6/02	By: Ara Patapoutian
Date:	By:Peter McEwen

Date:	By:	20.5
	Bin Liu	
Data	D.	
Date:	By:	177/21/17

		Notary Fut	nic
	_	Notary Pub	alio .
Given under my hand a	and seal of office this	day of	, 2002.
Before me, a Notary Public in a Moser, known to me to be the acknowledged to me that he expressed.	person whose name is s	ubscribed to the forego	ing instrument, and
COUNTY OF)		
) ss.		
STATE OF)		

STATE OF Majs,)) ss. COUNTY OF Worcester)	
) ss. COUNTY OF Kbreester)	
Before me, a Notary Public in and for said County known to me to be the person whose name is acknowledged to me that he executed the sam expressed.	s subscribed to the foregoing instrument, and
Given under my hand and seal of office th	is lotte day of Pocember, 2002.
	Notary Public OCT. 22, 2004
My Commission expires:	Oct. 22,2004
STATE OF)) ss.	
COUNTY OF)	
Before me, a Notary Public in and for said County known to me to be the person whose name is acknowledged to me that he executed the same expressed.	s subscribed to the foregoing instrument, and
Given under my hand and seal of office the	is, 2002.
	Notary Public
My Commission expires:	

STATE OF)			
)	SS.		
COUNTY OF)			
	tary Public in and for sa			
	son whose name is subs			
that he executed	the same for the purpo	oses and consider	ations therein express	sed.
Given ur	nder my hand and seal	of office this	day of	, 2002.
			N-4 D	1-1:
			Notary P	udiic
	My Commission	avnirac:		
	MAY COMMINSSION	1 evhites.		

STATE OF)
COUNTY OF) ss.)
known to me to be the person w	for said County and State, personally appeared Bruce Buch, whose name is subscribed to the foregoing instrument, and cuted the same for the purposes and considerations therein
Given under my hand and se	eal of office this day of, 2002.
	Notary Public
My Commiss	sion expires:

WHEREAS, we, Michael Anthony Moser of 910 Briana Ct., San Jose, CA 95120, Ara Patapoutian of 5 Jasper Street ext., Westborough, MA 01581, Peter McEwen of 450 Oak Grove Drive, #216, Santa Clara, CA 95054, Bin Liu of 6282 Joaquin Murieta Ave., Apt. C, Newark, CA 94560, and Bruce Buch of 21 Old Nourse Street, Westborough, MA 01581, have invented a certain new and useful invention entitled "DEMODULATION OF LOW DENSITY PRINTED MEDIA BURSTS USING INFORMATION FROM HIGHER HARMONICS FOR DISK DRIVE SELF-SERVO WRITING", for which an application for Letters Patent of the United States has been prepared and was filed on September 20, 2002, receiving Serial No. 10/251,270, and further identified as Attorney Docket No. Q01-1088-US1;

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IN WITNESS WHEREOF, the parties hereto have executed this Assignment as of the date indicated hereunder.

Date:	By:	
	Michael Anthony Moser	
Date:	By:	
	Ara Patapoutian	

Date: 7/20/03		John McEwen, executor, on behalf of Peter McEwen (now deceased)
Date:	Ву:	Bin Liu
Date:	Ву:	Bruce Buch

STATE OF)
) ss.
COUNTY OF)

Before me, a Notary Public in and for said County and State, personally appeared Michael Anthony Moser, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 20 ruday of July, 2003.

Notary Public

My Commission expires:

L. R. DUNN
Notary Public, State of Texas
Harris County
My Commission Expires
03/26/04

3-46.04

STATE OF)		
COUNTY OF) ss.)		
Before me, a Notary Public in and for known to me to be the person we acknowledged to me that he executed expressed.	hose name is	subscribed to the	foregoing instrument, and
Given under my hand and se	eal of office this	day of	, 2003.
My Commiss	sion expires:	No	otary Public
STATE OF COUNTY OF)) ss.)		
Before me, a Notary Public in and f known to me to be the person w acknowledged to me that he exec expressed.	hose name is	subscribed to the	foregoing instrument, and
Given under my hand and se	al of office this	day of	, 2002.
		No	tary Public
My Commiss	ion expires:		

My Comm	oission expires:	Notary Pu	one
	-	Notary Pu	hlia
Given under my hand and	d seal of office this	day of	, 2003.
Before me, a Notary Public in and me to be the person whose name hat he executed the same for the	is subscribed to the fore	going instrument, and	acknowledged to me
COUNTY OF)		
) ss.		
STATE OF)		

My Com	mission expires:		
		Notary Pu	ıblic
Given under my hand ar	nd seal of office this	day of	, 2003.
Before me, a Notary Public in known to me to be the personacknowledged to me that he expressed.	on whose name is subse	cribed to the forego	ing instrument, and
COUNTY OF)		
STATE OF)) ss.		

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Date:	By:		
	J .	Michael Anthony Moser	
Date:	Ву:	Ara Patapoutian	
Date:	Ву: _	Peter McEwen	

Date: 12/10/2002	By: Bin Liu
Date:	By:Bruce Buch

My Con	nmission expires:	rotary i ut	one.
		Notary Pul	nlic
Given under my hand a	and seal of office this	day of	, 2002.
Before me, a Notary Public in a Moser, known to me to be the acknowledged to me that he expressed.	person whose name is su	bscribed to the forego	ing instrument, and
COUNTY OF)		
STATE OF)) ss.		

STATE OF)		
COUNTY OF) ss.)		
Before me, a Notary Public in and for known to me to be the person wh acknowledged to me that he execut expressed.	ose name is	subscribed to the	e foregoing instrument, and
Given under my hand and sea	l of office this	s day of _	, 2002.
		N	otary Public
My Commission	on expires:		
STATE OF)) ss.		
COUNTY OF) 55.		
Before me, a Notary Public in and for known to me to be the person wh acknowledged to me that he execu expressed.	ose name is	subscribed to the	foregoing instrument, and
Given under my hand and sea	of office this	day of _	, 2002.
		N	otary Public
My Commission	n expires:		

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California)
County of South Clara	SS.
on Dec. 10, 2002 before me, _	Mary J. England.
4.7. 1.	Name and Title of Officer (e.g., "Jane Boe, Notary Public")
personally appeared	Name(s) of Signer(s)
	□ personally known to me
	proved to me on the basis of satisfactory evidence
	to be the person(s) whose name(s) is/are
	subscribed to the within instrument and acknowledged to me that he/she####y executed
	the same in his/h er/their authorized
	capacity(iss), and that by his/be r/thei r signature(s) on the instrument the person(s), or
	the entity upon behalf of which the person
MARY J. ENGLAND Commission # 1303910	acted, executed the instrument.
Notary Public - California	WITNESS my hand and official seal.
Santa Clara County My Comm. Expires Jun 6, 2005	
	Signature of Molary Public
- •	ONAL ————————————————————————————————————
	int of this form to another document.
Description of Attached Document	
Title or Type of Document:	Assignment
Document Date: Dec. 10, Jan 3	
Signer(s) Other Than Named Above: Michael Peter Metwen Bruce	Anthony Moser, Ara Patapoutian,
Peter Mctwen mand Bruce	e Buch
Capacity(les) Claimed by Signer	
Signer's Name: Bin Liu	RIGHT THUMBPRINT
✓ Individual	OF SIGNER Top of thumb here
Corporate Officer — Title(s):	
 □ Partner — □ Limited □ General □ Attorney-in-Fact 	
☐ Trustee	
☐ Guardian or Conservator ☐ Other:	
2 + 0	
Signer Is Representing:	

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STATE OF)		
COUNTY OF) ss.)		
Before me, a Notary Public in and f known to me to be the person wh acknowledged to me that he execu expressed.	ose name is su	bscribed to the foregoin	g instrument, and
Given under my hand and sea	l of office this _	day of	, 2002.
	_	Notary Pub	lic
My Commissio	on expires:		

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Date:	By:	
	Michael Anthony Moser	
Date:	By:Ara Patapoutian	
Date:	By:Peter McEwen	

Date:	By:
	Bin Liu
Date: 14- JAN - 03	By: Bruce Buch

		Notary Pub	Nic
Given under my hand an	nd seal of office this	day of	, 2002.
Before me, a Notary Public in an Moser, known to me to be the packnowledged to me that he expressed.	person whose name is su	bscribed to the forego	ing instrument, and
COUNTY OF)		
STATE OF)) ss.		

STATE OF)		
COUNTY OF) ss.)		
Before me, a Notary Public in and for known to me to be the person wh acknowledged to me that he execu expressed.	ose name is	subscribed to the fo	oregoing instrument, and
Given under my hand and sea	l of office this	s day of	, 2002.
		Nota	ary Public
My Commission	on expires:		
STATE OF)) ss.		
COUNTY OF)		
Before me, a Notary Public in and for known to me to be the person whacknowledged to me that he execu- expressed.	ose name is	subscribed to the fo	oregoing instrument, and
Given under my hand and sea	l of office this	day of	, 2002.
		Nota	ry Public
My Commission	on expires:		

My Con	nmission expires:	Notary Pu	ıblic
Given under my hand a	and seal of office this	day of	, 2002.
Before me, a Notary Public in a me to be the person whose nam that he executed the same for t	e is subscribed to the foreg	going instrument, and	acknowledged to me
COUNTY OF)		
) ss.		
STATE OF)		

STATE OF	Massachustts)
) ss.
COUNTY OF	Worcester)

RECORDED: 03/09/2004

Before me, a Notary Public in and for said County and State, personally appeared Bruce Buch, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this	1th day of January, 2002.
	Notary Public
My Commission expires:	11-22-07