FORM PTO~1595	10-21-19	99	SHEET	U.S. DEPT. OF COM Patent and Trader	IMERCE mark Office
НТ98-031			$\mathbf{L}\mathbf{Y}$		
To the Honorable Commissioner of	P. 10117877			ments or copy thereof.	
1. Name of conveying party(ies):		2. Name and a	address of rec	eiving party(ies):	N.
RONGFU XIAO, CHYU-JIUH HUI-CHUAN WANG, CHERN MAO-MIN CHEN AND PO-KA	G-CHYI HAN,	Name: Hea	idway Techn	ologies, Inc.	7/60
Additional name(s) or conveying party(ie	s) attached? Yes X No	Internal Add			·, =
3. Nature of conveyance X Assignment	Merger	678 S. Hill City: Milp 95035	view Drive itas State: C	Ca Zip:	
Security Agreement	Change of Name	93033			
other					
Execution Date: 9/24/99		Additional na	me(s) & addres	s(es) attached? Ye	s X No
4. Application number(s) or paten	t number(s):				
5. Name and address of party to concerning document should be Name: GEORGE O. SAIL	mailed:		X No applications a	and patents involved	i:: <u>1</u>
Internal Address:		7. Total fee (3	ĺ	\$ <u>40.00</u>	
Street Address: 20 MCINTO	SH DRIVE			harged to deposit ac	cct.
City: POUGHKEEPSIE Sta	te: NY ZIP: 12603			19-0033 V	it account)
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9. Statement and signature. To the best of my knowledge and of the original document	nd belief the foregoing inform	ation is true and	correct and a	ny attached copy is	a true copy
GEORGE O. SAILE Name of Person Signin		Signature	all	October 8, 1999 Date	<u>)</u>
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PATENT REEL: 010316 FRAME: 0082

	For X Application or U.S. Patent
	By X Inventor(s) or Present Owner
ASSIGNMEN	T OF INVENTION
	EE to ASSIGNOR of the sum of One Dollar (\$1.00), the not for other good and valuable consideration,
ASSIGNOR:	
RONGFU XIAO	CHYU- JIUH TORNG
Type or print name of ASSIGNOR 43305 Livermore Coinm.	Type or print name of ASSIGNOR
Tremont, CA945-39	Address (A9456)
CI-II NA Nationality	Address Pleason our (A94566 Republic of China Nationality
Tai Min Type or print name of ASSIGNOR 4279 Mackin Woods Ln. Address Say Jose, CA9513.5. PR. China	Type or print name of ASSIGNOR 5027 Carducci Dr. Address Pleasanton, CA 94588 Republic of China
Nationality	Nationality
ASSIGNEE:	
Headway Technologies, Inc. 678 S. Hillview Drive Milpitas, Ca 95035 Usa Nationality	
and the successors, assigns and legal repre	esentatives of the ASSIGNEE e one of the following)
x the entire right, title and interest	o and an one name of
	interest for the United States and its territorial possessions ign rights are also to be assigned)
x and in all foreign countries	
in and to any and all improvements which ar	re disclosed in the invention entitled:
Method Of Forming A Second Antiferror (MR) And Giant MR (GMR) Applications	nagnetic Exchange-Coupling Layer For Magnetoresistive

17

For x U.S. and/or x Foreign Rights

PATENT REEL: 010316 FRAME: 0083

	For x U.S. and/or x Foreign Rights
	For x Application or U.S. Patent
	By X Inventor(s) or Present Owner
ASSIGNMEN	T OF INVENTION
	EE to ASSIGNOR of the sum of One Dollar (\$1.00), the nd for other good and valuable consideration,
ASSIGNOR:	
Type or print name of ASSIGNOR 3487 VAVNEY C. Address	Type or print name of ASSIGNOR
3487 Varner C.	1021 Woodview pl.
San Fore CA 95/32	5.1 CA 917-V
CASA	1). S A
Nationality	Nationality
Type or print name of ASSIGNOR 1007 Shadow Bnok br. Address Sm J sk, CA 95120 USA Nationality ASSIGNEE: Headway Technologies, Inc. 678 S. Hillview Drive Milpitas, Ca 95035 Usa Nationality	
and the successors, assigns and legal repre-	esentatives of the ASSIGNEE e one of the following)
x the entire right, title and interest	
	b) interest for the United States and its territorial possessions sign rights are also to be assigned)
in and to any and all improvements which ar	re disclosed in the invention entitled:
Method Of Forming A Second Antiferrom (MR) And Giant MR (GMR) Applications	nagnetic Exchange-Coupling Layer For Magnetoresistive

PATENT REEL: 010316 FRAME: 0084 and which is found in

(a) U.S. patent application executed on even	
(b) X U.S. patent application executed on A	5 9/21,9/23 9/24/99
(c) U.S. application serial no.	•
(d) U.S. patent no.	
	reign application(s) is also being assigned)
(e) and any legal equivalent thereof in a forei	gn country, including the right to clam priority
	for said invention by the above application or any nd as to letters patent any re-issue or re-examination
ASSIGNOR hereby covenants that no assignme be made or entered into which would conflict with thi	ent, sale, agreement or encumbrance has been or will s assignment.
pertinent facts and documents relating to said inventionally be known and accessible to ASSIGNOR and will proceeding related thereto and will promptly execute any and all papers, instruments or affidavits required application, said invention and said Letters Patent at the desirable to carry out the purposes thereof.	e will, upon its request, be provided promptly with all tion and said Letters Patent and legal equivalents as testify as to the same in any interference, litigation or and deliver to ASSIGNEE or its legal representatives to apply for, obtain, maintain, issue and enforce said and said equivalents thereof which may be necessary
564, 24, 1999 (Date	
WARNING Date of signing must be the same as the date of ex	Signature of ASSIGNOR(S) Signature of ASSIGNOR(S) Agriculture of ASSIGNOR(S)
If ASSIGNOR is a legal entity complete the following info	rmation
	Type or print the name of the above person authorized to sign on behalf of ASSIGNOR
	Title
	ssignment is notarized or legalized then it will only be prima facie evidence (35 USC
261). Use next page if notarization is desired.	Notarization of Legalization Page Added.
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PATENT REEL: 010316 FRAME: 0085

(c) U.S. patent no	(b)	\nearrow U.S. patent application executed on $\stackrel{\frown}{\square}$	120 9121 4123 9124 149
(also check (e) if foreign application(s) is also being assigned) and any legal equivalent thereof in a foreign country, including the right to clam priority and, in and to, all Letters Patent to be obtained for said invention by the above application or a continuation, division, renewal, or substitute, thereof, and as to letters patent any re-issue or re-examinate thereof. ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or be made or entered into which would conflict with this assignment. ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representation any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce so application, said invention and said Letters Patent and said equivalents thereof which may be necessator desirable to carry out the purposes thereof. IN WITNESS WHEREOF, I / We have signed this Supply of the performance of the application if item (a) was checked above. WARNING bate of signing must be the same as the date of execution of the application if item (a) was checked above.	(c)		· · · · · · · · · · · · · · · · · · ·
(also check (e) if foreign application(s) is also being assigned) and any legal equivalent thereof in a foreign country, including the right to clam priority and, in and to, all Letters Patent to be obtained for said invention by the above application or a continuation, division, renewal, or substitute, thereof, and as to letters patent any re-issue or re-examinate thereof. ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or be made or entered into which would conflict with this assignment. ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representation any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce so application, said invention and said Letters Patent and said equivalents thereof which may be necessator desirable to carry out the purposes thereof. IN WITNESS WHEREOF, I / We have signed this Supply of the performance of the application if item (a) was checked above. WARNING bate of signing must be the same as the date of execution of the application if item (a) was checked above.	(d)		
and, in and to, all Letters Patent to be obtained for said invention by the above application or a continuation, division, renewal, or substitute, thereof, and as to letters patent any re-issue or re-examinat thereof. ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or be made or entered into which would conflict with this assignment. ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce supplication, said invention and said Letters Patent and said equivalents thereof which may be necessary desirable to carry out the purposes thereof. IN WITNESS WHEREOF, I I We have signed this SALL WHEREOF, I I We have signed this Granting or assigning must be the same as the date of execution of the application if item (a) was checked above. ASSIGNOR further covenants that no assignment, and is required to a polyment. Granting or assignment.			
continuation, division, renewal, or substitute, thereof, and as to letters patent any re-issue or re-examinat thereof. ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or be made or entered into which would conflict with this assignment. ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce supplication, said invention and said Letters Patent and said equivalents thereof which may be necessary desirable to carry out the purposes thereof. IN WITNESS WHEREOF, Li We have signed this Charles of the same as the date of execution of the application if item (a) was checked above. Signature or reserving or reserving in the same as the date of execution of the application if item (a) was checked above.	(e)	and any legal equivalent thereof in a for	reign country, including the right to clam priority
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pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce supplication, said invention and said Letters Patent and said equivalents thereof which may be necessary of desirable to carry out the purposes thereof. IN WITNESS WHEREOF, I / We have signed this Supply 1949 (Date of signing) WARNING bate of signing must be the same as the date of execution of the application if item (a) was checked above. Signature of ASSIGNOR(S)	be m	_	
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John Char	any a appli or de	and all papers, instruments or affidavits require cation, said invention and said Letters Paten sirable to carry out the purposes thereof.	ed to apply for, obtain, maintain, issue and enforce said t and said equivalents thereof which may be necessary
If ASSIGNOR is a legal entity complete the following information	any a appli or de	and all papers, instruments or affidavits require cation, said invention and said Letters Patentsirable to carry out the purposes thereof. ITNESS WHEREOF, I / We have signed this Sept., 24, 1999 (Date of the carry of the carr	ed to apply for, obtain, maintain, issue and enforce said t and said equivalents thereof which may be necessary e of signing)
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Type or print the name of the above person authorized to sign behalf of ASSIGNOR	any a appli or de IN W WAR	and all papers, instruments or affidavits require cation, said invention and said Letters Patents estrable to carry out the purposes thereof. ITNESS WHEREOF, I / We have signed this Sept. 24, 1999 (Date NING) Date of signing must be the same as the date of	ed to apply for, obtain, maintain, issue and enforce said it and said equivalents thereof which may be necessary e of signing) execution of the application if item (a) was checked above.
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and which is found in

RECORDED: 10/12/1999

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__Notarization of Legalization Page Added.