HT03-044 To the Honorable Commissioner of Pate 1 Name of conveying party(ies): TAI MIN, YIMIN GUO, POKANG WANG Additional name(s) or conveying party(ies) attached? Additional name(s) or conveying party(ies) attached? Street Address: 3. Nature of conveyance X Assignment Merger Security Agreement Change of Name Change of Name	PORI	M PTO~1595	08-11-2	2004	THEET	U.S. DEPT. OF Patent and Tra	demark		
To the Honorable Commissioner of Peter. 102811371 Aginal documents or copy thereof.	Offi	ice				T dionit and Tra	idelliai k		
To the Honorable Commissioner of Patsi. 1. Name of conveying party(ies): TAI MIN, YIMIN GUO, POKANG WANG Additional name(s) or conveying party(ies) attached? Ves					Y				
1. Name of conveying party(es): 1. Name of conveying party(es): 2. Name and address of receiving party(es): 3. Nature of conveying party(es) attached?	HT		102811:	371		· · · · · · · · · · · · · · · · · · ·			
Additional name(s) or conveying party(les) attached? Yes X No 3. Nature of conveyance X Assignment Merger Security Agreement Change of Name Other Execution Date: 6/23/04 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: 6/23/04&7/7; A. Patent Application No(s) Additional numbers attached? Yes X No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: GEORGE O. SAILE Internal Address: Address: Total fee (37 CFR 3.41): \$ 40.00 Enclosed Street Address: Street Address: Authorized to be charged to deposit acct. 8. Deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit acct. To the best of my knowledge and belief the foregoing information is true and correct and any attached copy is a true of the original document STEPHEN B. ACKERMAN Name of Person Signing Name: Headway Technologies. Inc. Internal Address: Street Address: Street Address: Street Address: Additional name & address attached? Yes X No 6. Total no. of applications and patents involved:: 1 Total fee (37 CFR 3.41): \$ 40.00 Enclosed X Authorized to be charged to deposit acct. 8. Deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account of the original document STEPHEN B. ACKERMAN Name of Person Signing Name: Headway Technologies. Inc. Internal Address: Street Address: Street Address: Street Address: Street Address: Additional name & address attached? Yes X No 6. Total no. of applications and patents involved:: 1 Total fee (37 CFR 3.41): \$ 40.00 Enclosed X Authorized to be charged to deposit acct. 8. Deposit account number: 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 of the original document.			``	· — — -					
Additional name(s) or conveying party(ies) attached? Yes X No 3. Nature of conveyance	1.	. Name of conveying party(les):		2. Name and ac	aress of rec	eiving party(ies):		
Street Address: 3. Nature of conveyance X Assignment	TA	AI MIN, YIMIN GUO, POKANG V	VANG	Name: <u>Head</u>	lway Techn	ologies, Inc.	8. PTO		
3. Nature of conveyance X Assignment Merger Security Agreement Change of Name other Execution Date: 6/23/04 4. Application number(s) or patent number(s):	Addi	itional name(s) or conveying party(ies) attac	ched? Yes X No				.548 U.S		
Security Agreement Change of Name other Execution Date: 6/23/04 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: 6/23/04&7/7. A. Patent Application No(s) Additional numbers attached? Yes X No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: GEORGE O. SAILE Internal Address: 7. Total fee (37 CFR 3.41): \$ 40.00 Enclosed Street Address: 28 DAVIS AVENUE City: POUGHKEEPSIE State: NY ZIP: 12603 B. Deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account of the original document of the origi		— · F—		678 S. Hilly City: Milpi	iew Drive	Ca	 -		
Additional name & address attached? Yes X 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: 6/23/04&7/7/A. Patent Application No(s) Additional numbers attached? Yes X No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: GEORGE O. SAILE Internal Address: 7. Total fee (37 CFR 3.41): \$ 40.00 Enclosed Street Address: 28 DAVIS AVENUE City: POUGHKEEPSIE State: NY ZIP: 12603 8. Deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account of the original document. 9. Statement and signature. 7. To the best of my knowledge and belief the foregoing information is true and correct and any attached copy is a true of the original document. STEPHEN B. ACKERMAN Name of Person Signing Name 0000156 190033 10910725		Security Agreement Chang	ge of Name	Zip. 93033					
4. Application number(s) or patent number(s):		other							
If this document is being filed together with a new application, the execution date of the application is: 6/23/04&7/7/A. Patent Application No(s) Additional numbers attached? Additional numbers attached? Yes X No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: GEORGE O. SAILE Internal Address: Internal Address: Total fee (37 CFR 3.41): \$ 40.00 Enclosed X Authorized to be charged to deposit acct. City: POUGHKEEPSIE State: NY ZIP: 12603 8. Deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account of the original document) 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 of the original document STEPHEN B. ACKERMAN Name of Person Signing Signature O0000156 190033 10910725	E	Execution Date: <u>6/23/04</u>		Additional nan	ne & address a	attached? Y	es X No		
If this document is being filed together with a new application, the execution date of the application is: 6/23/04&7/7/A. Patent Application No(s) Additional numbers attached? Additional numbers attached? Yes X No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: GEORGE O. SAILE Internal Address: Total fee (37 CFR 3.41): \$ 40.00 Enclosed X Authorized to be charged to deposit acct. City: POUGHKEEPSIE State: NY ZIP: 12603 8. Deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account of the original document 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 of the original document STEPHEN B. ACKERMAN Name of Person Signing Signature 00000156 190033 10910725	4	4. Application number(s) or patent number(s): 112 19 10 725							
5. Name and address of party to whom correspondence concerning document should be mailed: Name: GEORGE O. SAILE Internal Address: 7. Total fee (37 CFR 3.41): \$ 40.00 Enclosed Street Address: 28 DAVIS AVENUE			ner with a new applicati				/ <u>23/04&7/7/0</u>		
concerning document should be mailed: Name: GEORGE O. SAILE Internal Address: 7. Total fee (37 CFR 3.41): \$ 40.00 Enclosed Street Address: 28 DAVIS AVENUE X Authorized to be charged to deposit acct. City: POUGHKEEPSIE State: NY ZIP: 12603 8. Deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account of the best of my knowledge and belief the foregoing information is true and correct and any attached copy is a true of the original document STEPHEN B. ACKERMAN Name of Person Signing Signature Date		Ad	ditional numbers attach	ed? Yes 2	x No				
Street Address: 28 DAVIS AVENUE X Authorized to be charged to deposit acct. S Deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account nu	5	concerning document should be maile	-	6. Total no. of	applications	and patents inve	olved:: <u>1</u>		
Street Address: 28 DAVIS AVENUE City: POUGHKEEPSIE State: NY ZIP: 12603 8 .Deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by d		Internal Address:		7. Total fee (3	7 CFR 3.41)	: \$ <u>40.00</u>			
City: POUGHKEEPSIE State: NY ZIP: 12603 8. Deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account number: 19-0033 (Enclos	sed				
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 of the original document STEPHEN B. ACKERMAN Name of Person Signing Signature O0000156 190033 10910725		Street Address: 28 DAVIS AVEN	IUE	X Autho	orized to be o	charged to depos	sit acct.		
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 of the original document STEPHEN B. ACKERMAN Name of Person Signing Signature Date D4 DBYRNE 00000156 190033 10910725		City: POUGHKEEPSIE State: N		(Attach duplicate			deposit accou		
21 40.00 BA		To the best of my knowledge and be of the original document STEPHEN B. ACKERM Name of Person Signing	lief the foregoing inform	nation is true and o	correct and a	8/3/04	oy is a true o		
	04 DBYF	ME 00000129 130033 10310\S2							

PATENT REEL: 015660 FRAME: 0780

	•							
HT03-044	For U.S. and/or Foreign Rights							
	For Application or U.S. Patent							
	By X Inventor(s) or Present Owner							
ASSIGNMEN ⁴	r of invention							
In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,								
ASSIGNOR:								
TAI MIN Type or print name of ASSIGNOR 4279 Mackin Woods Lu Address San Jose, CA 95135	YIMIN GUO Type or print name of ASSIGNOR 1181 Arlington Ln Address San Jose, CA 95129							
USA Nationality	USA Nationality							
POKANG WANG Type or print name of ASSIGNOR 1007 Shadow Brook Dr Address San Jose, (A 95120	_							
usk								
Nationality								
hereby sells, assigns and transfers to								
ASSIGNEE:								
Headway Technologies, Inc. 678 S. Hillview Drive Milpitas, Ca 95035 Usa Nationality								
and the successors, assigns and legal representatives of the ASSIGNEE								
(complete one of the following) x the entire right, title and interest								
an undivided percent (%) inter	est for the United States and its territorial							
possessions								
(check the following box/f foreign rights are also to be assigned) x and in all foreign countries								
in and to any and all improvements which are disclosed in the invention entitled: Magnetic Random Access Memory Array With Proximate Read And Write Lines Cladded With Magnetic Material								

PATENT REEL: 015660 FRAME: 0781

and v	which is found in	•						
x	(a) U.S. patent application executed on even date herewith							
X	(b) U.S. patent application executed on 6/23/04 を 7/1/04							
$\bar{\sqcap}$	(c) U.S. application serial no.	filed on						
	(d) U.S. patent no(also check (e) if foreign	issuedapplication(s) is also being assigned)						
x	(e) and any legal equivalent thereof in a foreign cou							
conti	and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute, thereof, and as to letters patent any re-issue or re-examination thereof.							
will b	ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.							
ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.								
	IN WITNESS WHEREOF, I / We have signed this 6/23/04 (Date of signing) WARNING Date of signing must be the same as the date of execution of the application if item (a) was checked above.							
		Signature of ASSIGNOR(S) Fini Gno Vola 8						
If ASSIGNOR is a legal entity complete the following information								
		Type or print the name of the above person authorized to sign on behalf of ASSIGNOR						

Title No witnessing, notarization or legalization is necessary, if the assignment is notarized or legalized then it will only be

prima facie evidence (35 USC 261). Use next page if notarization is desired.

Note:

RECORDED: 08/03/2004

PATENT REEL: 015660 FRAME: 0782

___Notarization of Legalization Page Added.