

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Can-Ming HU	12/18/2008
Yongsheng GUI	12/18/2008
Andre WIRTHMANN	12/18/2008
Lihui BAI	12/22/2008
Nikolai MECKING	12/22/2008
RECEIVING PARTY DATA	
Name:	UNIVERSITY OF MANITOBA
Street Address:	631 Drake Centre
City:	Winnipeg
State/Country:	CANADA
Postal Code:	R3T FV4
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12267386
CORRESPONDENCE DATA	
<p>Fax Number: (512)536-4598</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Email: cnorred@fulbright.com</p> <p>Correspondent Name: S. Scott Gordon</p> <p>Address Line 1: 600 Congress Ave.</p> <p>Address Line 2: Suite 2400</p> <p>Address Line 4: Austin, TEXAS 78701</p>	
ATTORNEY DOCKET NUMBER:	UMAN:010US/10813690
NAME OF SUBMITTER:	S. Scott Gordon

OP \$40.00 12267386

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REEL: 022154 FRAME: 0309

Total Attachments: 8

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ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

SELL, ASSIGN AND TRANSFER to UNIVERSITY OF MANITOBA (the "Assignee"), having a place of business at 631 Drake Centre, Winnipeg, MB R3T FV4, Canada, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, Serial No. **12/267,386** which has been filed on **November 7, 2008** and is entitled "**SYSTEMS AND METHODS FOR RF MAGNETIC-FIELD VECTOR DETECTION BASED ON SPIN RECTIFICATION EFFECTS**," which claims priority to U.S. Provisional Application No. 60/986,743 filed November 9, 2007, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Signature: _____

Name: Can-Ming HU

Date: _____

Dec. 18. 08

BEFORE ME, the undersigned authority, on this 18th day of DECEMBER, 2008 personally appeared Can-Ming HU, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.

Witness

W. Klassen
WANDA KLASSEN

Signature: _____

Name: Nikolai MECKING

Date: _____

BEFORE ME, the undersigned authority, on this ____ day of _____, 2008 personally appeared Nikolai MECKING, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.

Witness

Signature: _____

Name: Yongsheng GUI

Date: Dec. 18 2008

BEFORE ME, the undersigned authority, on this 18th day of DECEMBER, 2008 personally appeared Yongsheng GUI, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.

W. Klassen

Witness WANDA KLASSEN

Signature: _____

Name: Andre WIRTHMANN

Date: DEC 18 2008

BEFORE ME, the undersigned authority, on this 18th day of DECEMBER, 2008 personally appeared Andre WIRTHMANN, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.

W. Klassen

Witness WANDA KLASSEN

Signature: Lihui Bai
Name: Lihui BAI

Date: Dec. 22, 2008

BEFORE ME, the undersigned authority, on this 22 day of December, 2008 personally appeared Lihui BAI, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.

Makoto Kohda
Witness

FULBRIGHT & JAWORSKI L.L.P.
600 Congress Avenue, Suite 2400
Austin, Texas 78701

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ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

SELL, ASSIGN AND TRANSFER to UNIVERSITY OF MANITOBA (the "Assignee"), having a place of business at 631 Drake Centre, Winnipeg, MB R3T FV4, Canada, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, Serial No. **12/267,386** which has been filed on **November 7, 2008** and is entitled "**SYSTEMS AND METHODS FOR RF MAGNETIC-FIELD VECTOR DETECTION BASED ON SPIN RECTIFICATION EFFECTS,**" which claims priority to U.S. Provisional Application No. 60/986,743 filed November 9, 2007, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Signature: _____

Date: _____

Name: Can-Ming HU

BEFORE ME, the undersigned authority, on this _____ day of _____, 2008 personally appeared Can-Ming HU, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.

Witness

Signature: N. Me.

Date: 22.12.2008

Name: Nikolai MECKING

BEFORE ME, the undersigned authority, on this 22 day of DECEMBER, 2008 personally appeared Nikolai MECKING, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.

Witness

Michael Mecking
MICHAEL MECKING

Signature: _____

Date: _____

Name: Yongsheng GUI

BEFORE ME, the undersigned authority, on this ____ day of _____, 2008 personally appeared Yongsheng GUI, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.

Witness

Signature: _____

Date: _____

Name: Andre WIRTHMANN

BEFORE ME, the undersigned authority, on this ____ day of _____, 2008 personally appeared Andre WIRTHMANN, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.

Witness

Signature: _____

Date: _____

Name: Lihui BAI

BEFORE ME, the undersigned authority, on this ____ day of _____, 2008 personally appeared Lihui BAI, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.

Witness

FULBRIGHT & JAWORSKI L.L.P.
600 Congress Avenue, Suite 2400
Austin, Texas 78701