2/17/09				
Form PTO-1595 (Rev. 07/05) OMB No. 0651-0027 (exp. 6/30/2008)	2009	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office		
ET				
To the Director of the U.S. Patent . 103548	3793	documents or the new address(es) below.		
1. Name of conveying party(ies)	2. Name and a	address of receiving party(ies)		
Mark A. GRISWOLD Jeremiah A. HEILMAN	Name: Case We	estern Reserve University		
Jeremian A. Hellman	Internal Addre	ss:		
Additional name(s) of conveying party(ies) attached?Yes ✓ N				
3. Nature of conveyance/Execution Date(s): Execution Date(s) 1/8/2009	Street Address	S: 10900 Euclid Avenue		
Assignment Merger				
	City: Cleveland			
Security Agreement Change of Name				
Joint Research Agreement	State: OH			
Government Interest Assignment	Country: USA	Zip:44106-4971		
Executive Order 9424, Confirmatory License	1			
Other		(s) & address(es) attached? Yes No		
4. Application or patent number(s):  This document is being filed together with a new application.				
A. Patent Application No.(s) 12/290,419	B. Patent N	<b>lo.(s)</b>		
Additional numbers attached?				
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1			
Name: John T. Kalnay	7. Total fee (3	7 CFR 1.21(h) & 3.41) \$ 40.00		
Internal Address: Kraguljac & Kalnay, LLC	I —	d to be charged by credit card		
	i	d to be charged to deposit account		
Street Address: 4700 Rockside Road	Enclosed	<b>5</b> ,		
Summit One, Suite 510	None requ	uired (government interest not affecting title)		
City: Independence	8. Payment Ir	nformation		
State: OH Zip:44131	a. Credit Ca	ard Last 4 Numbers		
Phone Number: (216) 308-3245		Expiration Date		
Fax Number: (216) 503-5401	1	Account Number		
Email Address: itk@kkpatent.com	Authoriz	17/2009 Mame		
	<u> </u>	FC:882: 48.88 UF		
9. Signature: Signature		February 13, 2009 Date		
<i>(</i>		Total number of pages including cover		
John T. Kalnay  Name of Person Signing		sheet, attachments, and documents:		

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

Name of Person Signing

**PATENT** 

**REEL: 022281 FRAME: 0959** 

## **ASSIGNMENT**

For One Dollar (\$1.00) and other good and valuable consideration received of the hereinafter named assignee, receipt of which is hereby acknowledged, we, the undersigned, **Mark A. GRISWOLD**, of 3135 Huntington Road, Shaker Heights, OH 44120, USA; and **Jeremiah A. HEILMAN**, of 2371 Eardley Road, University Heights, OH 44118, USA; hereby assign all right, title and interest to **Case Western Reserve University**, 10900 Euclid Avenue, Cleveland, Ohio 44106-4971, its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries, in and to the inventions in

## MULTI-FREQUENCY EXCITATION COILS FOR MRI

set forth in the utility application no. 12/290,419 filed on October 30, 2008, for United States Letters Patent, said application for United States Letters Patent, any and all other applications for Letters Patent on said inventions in countries foreign to the United States, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patents and reissues and extension of Letters Patent granted for said inventions or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said applications and said Letters Patent; said assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said assignee or otherwise as said assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents of the United States of America and the empowered officials of all other governments being hereby authorized to issue or transfer all said Letters Patent to said assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right heretofore given, and that the undersigned will do all acts reasonably serving to assure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this

> PATENT REEL: 022281 FRAME: 0960

assignment had not been made, and particularly to execute and deliver to said assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, and lawful affidavits in form and in substance which may be requested by said assignee, to furnish said assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said inventions, and to testify in any proceedings relating to said inventions, patent applications and Letters Patent.

(1)   /g / q Date:	
1	Mark A. GRISWOLD
State of OH10	)
	) SS:
County of Cuyahoga	)
_	day of, 2008, personally appeared
	<del></del>
	ent, and acknowledged to me that he executed the same for
the uses and the purposes the	rein mentioned.
Date: 1-8-09	Marianne Chalaupek Notary Public

MARIANNE CHALOUPEK
Notary Public, State of Onic, Cuy. Cty.
My commission expires Oct. 18, 2010

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(2)	12211
Date: / 8 / 0 9	Ja Ne
,	Jeremiah A. HEILMAN
State of Ohio)	
)	SS:
County of Chyahoga )	
On this <u>&amp;th</u> day of	January, 2008, personally appeared
before me, Jeremiah Heilman	, to me known to be the person named in and who
executed the above instrument, and	d acknowledged to me that he executed the same for
the uses and the purposes therein m	entioned.
Date: 1-8-09	Marianne Chalousek

Notary Public

MARIAMY? CHALOUPEX
Notary Public, State of Ohio, Cuy. Cty.
My commission exputes Oct. 18, 2010

**RECORDED: 02/17/2009**