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Form PTO-1595 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002)



U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office Attorney Docket No. 22253-73881

102480674

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof:

1. Name of conveying parties:

- 1) Ravinder REDDY
- 2) Sridhar CHARAGUNDLA
- 3) Ari BORTHAKUR
- 4) Erik M. SHAPIRO

6-18-03

2. Name and address of receiving party(ies):

Name: THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA

Street Address: 3160 Chestnut Street, Suite 200

City: Philadelphia State: PA Zip: 19104

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of Conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other:

Execution date(s): 1) 04/09/03; 2) 04/07/03; 3) 04/03/03; 4) 06/09/03

Additional name(s) and address(es) attached? Yes No

4. Application number(s) or patent number(s):

A. Patent Application No.(s): 10/389,502

B. Patent No.(s):

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Evelyn H. McConathy, Esquire
DILWORTH PAXSON LLP
3200 Mellon Bank Center
1735 Market Street
Philadelphia, PA 19130

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$40.00

- Enclosed
- Authorized to be charged to deposit account

8. Deposit Account No. 50-0979

DO NOT USE THIS SPACE

9. Signature

Evelyn H. McConathy, Reg. No 35,279
Name of Person Signing/Registration No.

Evelyn H. McConathy
Signature

June 18, 2003
Date

Total number of pages including cover sheet, attachments and documents: 6

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PATENT REEL: 014190 FRAME: 0430

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to the undersigned INVENTOR(S) (the Assignors), the undersigned hereby sell and assign their entire right, title and interest to THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA (the Assignee), a non-profit corporation organized and existing under the laws of the Commonwealth of Pennsylvania having its principal place of business at 3160 Chestnut Street, Suite 200, Philadelphia, Pennsylvania 19104 for

Check applicable box(es): the United States of America (as defined in 35 U.S.C. § 100),
 and throughout the world,

in the invention known as **Pulse Imaging Sequences and Methods for T_{1ρ}-weighted MRI**, filed March 14, 2003 (also known as U.S. Application Serial No.10/389,502), in any and all applications thereon, in any and all Letters Patent(s) therefor, and in any and all reissues, extensions, renewals, reexaminations of such applications or Letters Patent(s) and divisionals and continuing applications thereof to the full end of the term or terms for which such Letters Patent(s) issue, such entire right, title and interest to be held and enjoyed by the above-named Assignee to the same extent as they would have been held and enjoyed by the undersigned had this assignment and sale not been made.

The undersigned agree to execute all papers necessary in connection with the application and any continuing, divisional, reissue, reexamination or corresponding applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree to execute all papers necessary in connection with any interference that may be declared concerning the application or any continuing, divisional, reissue or reexamination applications thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned hereby represent that they have full right to convey undersigned entire interest herein assigned, and that they have not executed, and will not execute, any agreement in conflict therewith.

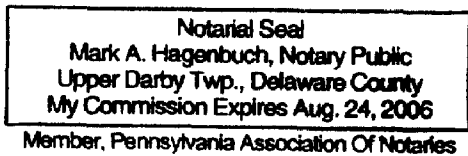
IN WITNESS WHEREOF, executed by the undersigned on the dates opposite their names.

Date: April 9, 03 Signature of Inventor: Ravinder Reddy
RAVINDER REDDY

Commonwealth of Pennsylvania:

COUNTY of Montgomery: SS

On this 9 day of April 2003, before me personally came the above RAVINDER REDDY, known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that (s)he executed the same of his/her own free will for the use and purposes therein set forth.



[Signature]
Notary Public

Date: _____ Signature of Inventor: _____
SRIDHAR CHARAGUNDLA

Commonwealth of Pennsylvania:

COUNTY of _____: SS

On this ____ day of _____ 2003, before me personally came the above SRIDHAR CHARAGUNDLA, known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that (s)he executed the same of his/her own free will for the use and purposes therein set forth.

Notary Public

IN WITNESS WHEREOF, executed by the undersigned on the dates opposite their names.

Date: _____ Signature of Inventor: _____
RAVINDER REDDY

Commonwealth of Pennsylvania:
COUNTY of _____: SS

On this ____ day of _____ 2003, before me personally came the above RAVINDER REDDY, known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that (s)he executed the same of his/her own free will for the use and purposes therein set forth.

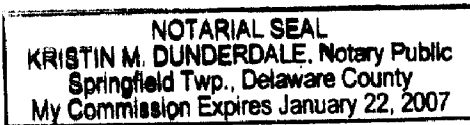
Notary Public

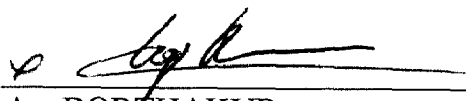
Date: 4/7/03 Signature of Inventor: *Sridhar Charagundla*
SRIDHAR CHARAGUNDLA

Commonwealth of Pennsylvania:
COUNTY of Delaware: SS

On this 07 day of April 2003, before me personally came the above SRIDHAR CHARAGUNDLA, known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that (s)he executed the same of his/her own free will for the use and purposes therein set forth.

Kristin M. Dunderdale
Notary Public



Date: APRIL 3RD, 2003 Signature of Inventor: 
ARI BORTHAKUR

Commonwealth of Pennsylvania: SS
COUNTY of _____:

On this ____ day of _____ 2003, before me personally came the above ARI BORTHAKUR, known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that (s)he executed the same of his/her own free will for the use and purposes therein set forth.

Notary Public

Date: _____ Signature of Inventor: _____
ERIK M. SHAPIRO

District of Columbia: SS

On this ____ day of _____ 2003, before me personally came the above ERIK M. SHAPIRO, known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that (s)he executed the same of his/her own free will for the use and purposes therein set forth.

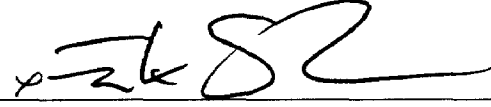
Notary Public

Date: _____ Signature of Inventor: _____
ARI BORTHAKUR

Commonwealth of Pennsylvania: SS
COUNTY of _____:

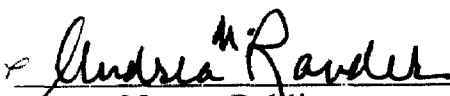
On this _____ day of _____ 2003, before me personally came the above ARI BORTHAKUR, known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that (s)he executed the same of his/her own free will for the use and purposes therein set forth.

Notary Public

Date: 6-9-03 Signature of Inventor: 
ERIK M. SHAPIRO

District of Columbia: SS

On this 9th day of June 2003, before me personally came the above ERIK M. SHAPIRO, known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that (s)he executed the same of his/her own free will for the use and purposes therein set forth.


Notary Public

ANDREA M. RANDE
NOTARY PUBLIC STATE OF MARYLAND
My Commission Expires October 1, 2006