

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | | | |
|---|--|---------------|--|---------------------|----------------------|-------------------|------------|----------------|--------------|----------------|--------------|----------------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Anup Singh</td> <td>02/08/2013</td> </tr> <tr> <td>Kecia Cai</td> <td>02/08/2013</td> </tr> <tr> <td>Mohammad Haris</td> <td>02/08/2013</td> </tr> <tr> <td>Hari Hariharan</td> <td>02/08/2013</td> </tr> <tr> <td>Ravinder Reddy</td> <td>02/08/2013</td> </tr> </tbody> </table> | | Name | Execution Date | Anup Singh | 02/08/2013 | Kecia Cai | 02/08/2013 | Mohammad Haris | 02/08/2013 | Hari Hariharan | 02/08/2013 | Ravinder Reddy | 02/08/2013 |
| Name | Execution Date | | | | | | | | | | | | |
| Anup Singh | 02/08/2013 | | | | | | | | | | | | |
| Kecia Cai | 02/08/2013 | | | | | | | | | | | | |
| Mohammad Haris | 02/08/2013 | | | | | | | | | | | | |
| Hari Hariharan | 02/08/2013 | | | | | | | | | | | | |
| Ravinder Reddy | 02/08/2013 | | | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Name:</td> <td>The Trustees Of The University Of Pennsylvania</td> </tr> <tr> <td>Street Address:</td> <td>3160 Chestnut Street</td> </tr> <tr> <td>Internal Address:</td> <td>Suite 200</td> </tr> <tr> <td>City:</td> <td>Philadelphia</td> </tr> <tr> <td>State/Country:</td> <td>PENNSYLVANIA</td> </tr> <tr> <td>Postal Code:</td> <td>19104</td> </tr> </table> | | Name: | The Trustees Of The University Of Pennsylvania | Street Address: | 3160 Chestnut Street | Internal Address: | Suite 200 | City: | Philadelphia | State/Country: | PENNSYLVANIA | Postal Code: | 19104 |
| Name: | The Trustees Of The University Of Pennsylvania | | | | | | | | | | | | |
| Street Address: | 3160 Chestnut Street | | | | | | | | | | | | |
| Internal Address: | Suite 200 | | | | | | | | | | | | |
| City: | Philadelphia | | | | | | | | | | | | |
| State/Country: | PENNSYLVANIA | | | | | | | | | | | | |
| Postal Code: | 19104 | | | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13683483</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13683483 | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | |
| Application Number: | 13683483 | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | |
| <p>Fax Number: 2155683439 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 215-568-3100 Email: assignments@woodcock.com Correspondent Name: Woodcock Washburn, LLP Address Line 1: 2929 Arch Street Address Line 2: Cira Centre, 12th Floor Address Line 4: Philadelphia, PENNSYLVANIA 19104-2891</p> | | | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | UPN-5799 / X5799 | | | | | | | | | | | | |

CH \$40.00 13683483

NAME OF SUBMITTER:

Faith A. Poore

Total Attachments: 15

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ASSIGNMENT

WHEREAS, I, **Anup Singh**, a citizen of **India**, residing at **506 South 41st Street, Atp. 3M, Philadelphia, Pennsylvania 19104**, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number **UPN-5799 / X5799** ("the invention"), assigned application number **13/683,483** filed **November 21, 2012**, which is entitled **ENDOGENOUS MAGNETIZATION CONTRAST IN MRI** ("the subject application"), and which claims priority to patent application number **61/562,293** filed **November 21, 2011** ("the priority application").

AND WHEREAS, **The Trustees Of The University Of Pennsylvania**, ASSIGNEE, having a place of business at **3160 Chestnut Street, Suite 200, Philadelphia, Pennsylvania 19104**, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

AND I HEREBY covenant and agree that I have full right to convey my entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

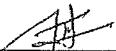
AND I HEREBY further covenant and agree that I will communicate to the ASSIGNEE, its successors, legal representatives, and assigns, any facts known to me respecting the invention, and testify in any legal proceeding, sign all lawful papers, execute all disclaimers and all divisional, continuing, reissue, and foreign applications, make all rightful oaths, deliver upon request all papers, documents, affidavits, or other instruments that may be necessary or helpful in the prosecution of any application for industrial property protection describing and/or claiming the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal

DOCKET NO.: UPN-5799 / X5799

representatives, and assigns, to obtain and enforce proper protection for the invention in all countries.

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 08 day of Feb, year of 2013.



Signature – Anup Singh

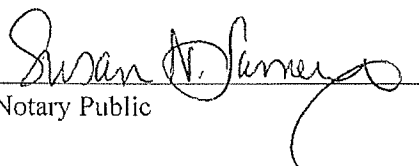
STATEMENT OF NOTARY PUBLIC

STATE OF Pennsylvania :

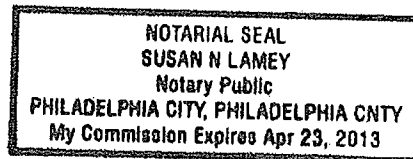
: SS

COUNTY OF Philadelphia :

On this 8^m day of February, year of 2013, before me personally came the above named **Anup Singh** to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.



Notary Public



DOCKET NO.: UPN-5799 / X5799

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this Eleventh day of Feb., year of 2013.

[Signature]
Signature -

STATEMENT OF WITNESS

SIGNED at Philadelphia, PA USA
(City) (State) (Country)

This 11th day of February, 2013.

I, Susan M. Collier whose full
residence address is 437 Lawton Terrace
Holmes, PA. 19043

was personally present and did see Anup Singh execute the above assignment on the
11th day of February, 2013, and such assignor is personally known to me to be the
person described in such document.

Susan M. Collier
Signature of Witness

ASSIGNMENT

WHEREAS, I, **Kejia Cai**, a citizen of **China**, residing at **2018 South John Russell Circle, Apt. 1, Elkins Park, Pennsylvania 19027**, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number **UPN-5799 / X5799** ("the invention"), assigned application number **13/683,483** filed **November 21, 2012**, which is entitled **ENDOGENOUS MAGNETIZATION CONTRAST IN MRI** ("the subject application"), and which claims priority to patent application number **61/562,293** filed **November 21, 2011** ("the priority application").

AND WHEREAS, **The Trustees Of The University Of Pennsylvania**, ASSIGNEE, having a place of business at **3160 Chestnut Street, Suite 200, Philadelphia, Pennsylvania 19104**, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

AND I HEREBY covenant and agree that I have full right to convey my entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to the ASSIGNEE, its successors, legal representatives, and assigns, any facts known to me respecting the invention, and testify in any legal proceeding, sign all lawful papers, execute all disclaimers and all divisional, continuing, reissue, and foreign applications, make all rightful oaths, deliver upon request all papers, documents, affidavits, or other instruments that may be necessary or helpful in the prosecution of any application for industrial property protection describing and/or claiming the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal

DOCKET NO.: UPN-5799 / X5799

representatives, and assigns, to obtain and enforce proper protection for the invention in all countries.

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 08 day of February, year of 2013.


Signature – Kejia Cai

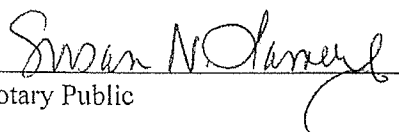
STATEMENT OF NOTARY PUBLIC

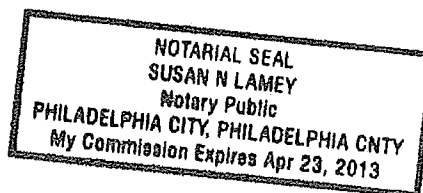
STATE OF Pennsylvania :

: SS

COUNTY OF Philadelphia :

On this 8th day of February, year of 2013, before me personally came the above named **Kejia Cai** to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

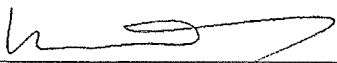

Notary Public



DOCKET NO.: UPN-5799 / X5799

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 11 day of February, year of 2013.


Signature -

STATEMENT OF WITNESS

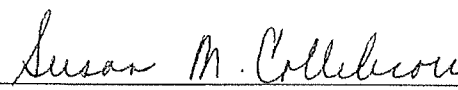
SIGNED at Philadelphia, PA USA
(City) (State) (Country)

This 11th day of February, 2013.

I, Susan M. Collicuri whose full

residence address is 437 Lawnton Terrace,
Holmes, PA 19043

was personally present and did see Kejia Cai execute the above assignment on the 11th day of February, 2013, and such assignor is personally known to me to be the person described in such document.


Signature of Witness

ASSIGNMENT

WHEREAS, I, **Mohammad Haris**, a citizen of **India**, residing at **506 South 41st Street, Apt. 2B, Philadelphia, Pennsylvania 19104**, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number **UPN-5799 / X5799** ("the invention"), assigned application number **13/683,483** filed **November 21, 2012**, which is entitled **ENDOGENOUS MAGNETIZATION CONTRAST IN MRI** ("the subject application"), and which claims priority to patent application number **61/562,293** filed **November 21, 2011** ("the priority application").

AND WHEREAS, **The Trustees Of The University Of Pennsylvania**, ASSIGNEE, having a place of business at **3160 Chestnut Street, Suite 200, Philadelphia, Pennsylvania 19104**, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

AND I HEREBY covenant and agree that I have full right to convey my entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to the ASSIGNEE, its successors, legal representatives, and assigns, any facts known to me respecting the invention, and testify in any legal proceeding, sign all lawful papers, execute all disclaimers and all divisional, continuing, reissue, and foreign applications, make all rightful oaths, deliver upon request all papers, documents, affidavits, or other instruments that may be necessary or helpful in the prosecution of any application for industrial property protection describing and/or claiming the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal

DOCKET NO.: UPN-5799 / X5799

representatives, and assigns, to obtain and enforce proper protection for the invention in all countries.

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 08 day of February, year of 2013.

Mohd Haris

Signature – Mohammad Haris

STATEMENT OF NOTARY PUBLIC

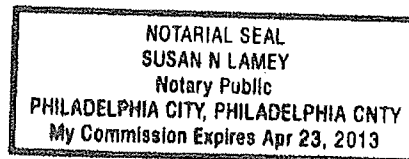
STATE OF Pennsylvania:

: SS

COUNTY OF Philadelphia:

On this 8th day of February, year of 2013, before me personally came the above named **Mohammad Haris** to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

Susan N. Lamey
Notary Public



DOCKET NO.: UPN-5799 / X5799

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 11th day of February, year of 2013.

Mohd Hams
Signature -

STATEMENT OF WITNESS

SIGNED at Philadelphia, PA USA
(City) (State) (Country)

This 11th day of February, 2013.

I, Susan M. Collettori whose full

residence address is 437 Lawnton Terrace
Holmes, PA 19043

was personally present and did see Mohammad Hams execute the above assignment on the 11th day of February, 2013, and such assignor is personally known to me to be the person described in such document.

Susan M. Collettori
Signature of Witness

ASSIGNMENT

WHEREAS, I, **Hari Hariharan**, a citizen of **United States**, residing at **206 Starboard Way, Mount Laurel, New Jersey 08054**, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number **UPN-5799 / X5799** ("the invention"), assigned application number **13/683,483** filed **November 21, 2012**, which is entitled **ENDOGENOUS MAGNETIZATION CONTRAST IN MRI** ("the subject application"), and which claims priority to patent application number **61/562,293** filed **November 21, 2011** ("the priority application").

AND WHEREAS, **The Trustees Of The University Of Pennsylvania**, ASSIGNEE, having a place of business at **3160 Chestnut Street, Suite 200, Philadelphia, Pennsylvania 19104**, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

AND I HEREBY covenant and agree that I have full right to convey my entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to the ASSIGNEE, its successors, legal representatives, and assigns, any facts known to me respecting the invention, and testify in any legal proceeding, sign all lawful papers, execute all disclaimers and all divisional, continuing, reissue, and foreign applications, make all rightful oaths, deliver upon request all papers, documents, affidavits, or other instruments that may be necessary or helpful in the prosecution of any application for industrial property protection describing and/or claiming the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal

DOCKET NO.: UPN-5799 / X5799

representatives, and assigns, to obtain and enforce proper protection for the invention in all countries.

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 8th day of February, year of 2013.



Signature – Hari Hariharan

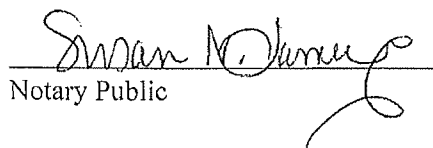
STATEMENT OF NOTARY PUBLIC

STATE OF Pennsylvania :

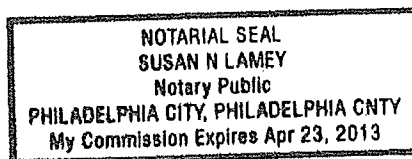
: SS

COUNTY OF Philadelphia :

On this 8th day of February, year of 2013, before me personally came the above named **Hari Hariharan** to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.



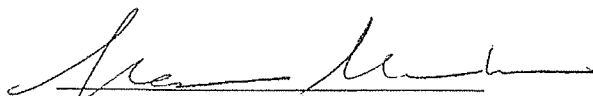
Notary Public



DOCKET NO.: UPN-5799 / X5799

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 11th day of February, year of 2013.



Signature -

STATEMENT OF WITNESS

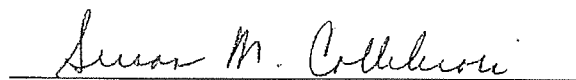
SIGNED at Philadelphia, PA USA
(City) (State) (Country)

This 11th day of February, 2013.

I, Susan M. Colletuori whose full

residence address is 437 Lawnton Terrace,
Holmes, PA 19043

was personally present and did see Hari Hariharan execute the above assignment on the 11th day of February, 2013, and such assignor is personally known to me to be the person described in such document.



Signature of Witness

ASSIGNMENT

WHEREAS, I, **Ravinder Reddy**, a citizen of **United States**, residing at **690 Merion Square Road, Gladwyne, Pennsylvania 19035**, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number **UPN-5799 / X5799** ("the invention"), assigned application number **13/683,483** filed **November 21, 2012**, which is entitled **ENDOGENOUS MAGNETIZATION CONTRAST IN MRI** ("the subject application"), and which claims priority to patent application number **61/562,293** filed **November 21, 2011** ("the priority application").

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NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

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DOCKET NO.: UPN-5799 / X5799

representatives, and assigns, to obtain and enforce proper protection for the invention in all countries.

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 8th day of February, year of 2013.

Ravinder Reddy
Signature – Ravinder Reddy

STATEMENT OF NOTARY PUBLIC

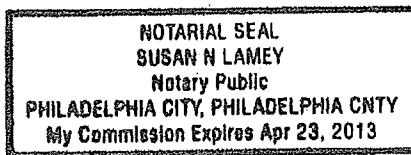
STATE OF Pennsylvania :

: SS

COUNTY OF Philadelphia:

On this 8th day of February, year of 2013, before me personally came the above named **Ravinder Reddy** to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

Susan N. Lamey
Notary Public



DOCKET NO.: UPN-5799 / X5799

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 11th day of February, year of 2013.

Ravinder Reddy

Signature -

STATEMENT OF WITNESS

SIGNED at Philadelphia, PA USA
(City) (State) (Country)

This 11th day of February, 2013.

I, Susan M. Collettori whose full

residence address is 437 Lawnton Terrace,
Holmes, PA 19043

was personally present and did see Ravinder Reddy execute the above assignment on the 11th day of February, 2013, and such assignor is personally known to me to be the person described in such document.

Susan M. Collettori

Signature of Witness