

## 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>Hideyuki Shinagawa</td> <td>01/24/2013</td> </tr> <tr> <td>Tadashi Shimizu</td> <td>01/24/2013</td> </tr> <tr> <td>Shinobu Ohki</td> <td>01/24/2013</td> </tr> <tr> <td>Takahiro Nemoto</td> <td>01/18/2013</td> </tr> <tr> <td>Eijiro Baba</td> <td>01/22/2013</td> </tr> <tr> <td>Katsuya Hioka</td> <td>01/18/2013</td> </tr> </tbody> </table> |                                   | Name          | Execution Date      | Hideyuki Shinagawa  | 01/24/2013                       | Tadashi Shimizu | 01/24/2013 | Shinobu Ohki   | 01/24/2013 | Takahiro Nemoto | 01/18/2013 | Eijiro Baba | 01/22/2013 | Katsuya Hioka | 01/18/2013 |
| Name   | Execution Date                    |               |                     |                     |                                  |                 |            |                |            |                 |            |             |            |               |            |
| Hideyuki Shinagawa   | 01/24/2013                        |               |                     |                     |                                  |                 |            |                |            |                 |            |             |            |               |            |
| Tadashi Shimizu  | 01/24/2013                        |               |                     |                     |                                  |                 |            |                |            |                 |            |             |            |               |            |
| Shinobu Ohki   | 01/24/2013                        |               |                     |                     |                                  |                 |            |                |            |                 |            |             |            |               |            |
| Takahiro Nemoto  | 01/18/2013                        |               |                     |                     |                                  |                 |            |                |            |                 |            |             |            |               |            |
| Eijiro Baba  | 01/22/2013                        |               |                     |                     |                                  |                 |            |                |            |                 |            |             |            |               |            |
| Katsuya Hioka  | 01/18/2013                        |               |                     |                     |                                  |                 |            |                |            |                 |            |             |            |               |            |
| RECEIVING PARTY DATA   |                                   |               |                     |                     |                                  |                 |            |                |            |                 |            |             |            |               |            |
| <table border="1"> <tr> <td>Name:</td> <td>JEOL Resonance Inc.</td> </tr> <tr> <td>Street Address:</td> <td>1-2, Musashino 3-chome, Akishima</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>196-8558</td> </tr> </table>   |                                   | Name:         | JEOL Resonance Inc. | Street Address:     | 1-2, Musashino 3-chome, Akishima | City:           | Tokyo      | State/Country: | JAPAN      | Postal Code:    | 196-8558   |             |            |               |            |
| Name:  | JEOL Resonance Inc.               |               |                     |                     |                                  |                 |            |                |            |                 |            |             |            |               |            |
| Street Address:  | 1-2, Musashino 3-chome, Akishima  |               |                     |                     |                                  |                 |            |                |            |                 |            |             |            |               |            |
| City:  | Tokyo                             |               |                     |                     |                                  |                 |            |                |            |                 |            |             |            |               |            |
| State/Country:   | JAPAN                             |               |                     |                     |                                  |                 |            |                |            |                 |            |             |            |               |            |
| Postal Code:   | 196-8558                          |               |                     |                     |                                  |                 |            |                |            |                 |            |             |            |               |            |
| 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>13765852</td> </tr> </tbody> </table>  |                                   | Property Type | Number              | Application Number: | 13765852                         |                 |            |                |            |                 |            |             |            |               |            |
| Property Type  | Number                            |               |                     |                     |                                  |                 |            |                |            |                 |            |             |            |               |            |
| Application Number:  | 13765852                          |               |                     |                     |                                  |                 |            |                |            |                 |            |             |            |               |            |
| CORRESPONDENCE DATA  |                                   |               |                     |                     |                                  |                 |            |                |            |                 |            |             |            |               |            |
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| ATTORNEY DOCKET NUMBER:  | 6508-123918                       |               |                     |                     |                                  |                 |            |                |            |                 |            |             |            |               |            |

OP \$40.00 13765852

NAME OF SUBMITTER:

David C. Hanson

Total Attachments: 4

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**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**

Hideyuki Shinagawa  
Tadashi Shimizu  
Shinobu Ohki  
Takahiro Nemoto

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

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

Name: JEOL Resonance Inc.

Internal Address: \_\_\_\_\_

Street Address: 1-2, Musashino 3-chome, Akishima

City: Tokyo

State: \_\_\_\_\_

Country: JAPAN

Zip: 196-8558

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

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) 01-24-2013, 01-24-2013, 01-24-2013, 01-18-2013

Assignment

Merger

Security Agreement

Change of Name

Joint Research Agreement

Government Interest Assignment

Executive Order 9424, Confirmatory License

Other \_\_\_\_\_

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

This document is being filed together with a new application.

A. Patent Application No.(s)

13/765,852

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: David C. Hanson

Internal Address: The Webb Law Firm

Street Address: One Gateway Center

420 Ft. Duquesne Blvd., Ste 1200

City: Pittsburgh

State: PA

Zip: 15222

Phone Number: 412-471-8815

Fax Number: 412-945-5933

Email Address: assignments@webblaw.com

**6. Total number of applications and patents involved:** 1

**7. Total fee (37 CFR 1.21(h) & 3.41) \$** 40.00

Authorized to be charged by credit card

Authorized to be charged to deposit account

Enclosed

None required (government interest not affecting title)

**8. Payment Information**

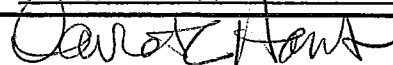
a. Credit Card Last 4 Numbers 4775

Expiration Date 05/2015

b. Deposit Account Number 23-0650

Authorized User Name \_\_\_\_\_

**9. Signature:**



Signature

February 13, 2013

Date

David C. Hanson, Reg. No. 23,024

Name of Person Signing

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

4

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

Page 2

U.S. Patent Application No. 13/765,852, filed February 13, 2013

U.S. Patent No. \_\_\_\_\_, issued \_\_\_\_\_

**Additional Information (continued from Page 1)**

|   |
|---|
| <b>Name of conveying party(ies)</b><br>Eijiro Baba<br>Katsuya Hioka |
| Execution Date(s): <u>01-22-2013, 01-18-2013</u><br>_____           |

|   |
|---|
| <b>Name and address of receiving party(ies)</b><br>Name: <u>JEOL Resonance Inc.</u><br>Internal Address: _____<br>_____<br>Street Address: <u>1-2, Musashino 3-chome, Akishima</u><br>_____<br>City: <u>Tokyo</u><br>State: _____<br>Country: <u>JAPAN</u> Zip: <u>196-8558</u> |
|---|

|                                     |
|-------------------------------------|
| <b>Name of conveying party(ies)</b> |
| Execution Date(s): _____<br>_____   |

|  |
|--|
| <b>Name and address of receiving party(ies)</b><br>Name: _____<br>Internal Address: _____<br>_____<br>Street Address: _____<br>_____<br>City: _____<br>State: _____<br>Country: _____ Zip: _____ |
|--|

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to the undersigned, said undersigned, HIDEYUKI SHINAGAWA, TADASHI SHIMIZU, SHINOBU OHKI, TAKAHIRO NEMOTO, EIJIRO BABA, and KATSUYA HIOKA, hereby sell and assign to JEOL Resonance Inc. of 1-2, Musashino 3-chome, Akishima, Tokyo 196-8558, Japan (hereinafter designated as the Assignee) the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention known as NMR PROBE for which we have this day executed an application for United States Letters Patent.

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

The undersigned agree to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize and request the Commissioner for Patents and Trademarks to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenant that they have full right to convey the entire interest herein assigned, and that they have not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant David C. Hanson (Registration No. 23,024), Richard L. Byrne (Registration No. 28,498) and Randall A. Notzen (Registration No. 36,882), One Gateway Center, 420 Ft. Duquesne Blvd., Suite 1200, Pittsburgh, Pennsylvania 15222, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

In witness whereof, executed by the undersigned on the date opposite the undersigned's names.

Date 2013/1/24 Inventor Hideyuki Shinagawa  
Hideyuki SHINAGAWA

Date 2013/1/24 Inventor Tadashi Shimizu  
Tadashi SHIMIZU

Date 2013/1/24 Inventor Shinobu Ohki  
Shinobu OHKI

Date 2013/1/18 Inventor Takahiro Nemoto  
Takahiro NEMOTO

Date 2013/1/22 Inventor Ejiro Baba  
Ejiro BABA

Date 2013/1/18 Inventor Katsuya Hioka  
Katsuya HIOKA