

## 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>Mitsue MIYAZAKI</td> <td>11/14/2012</td> </tr> <tr> <td>Cheng OUYANG</td> <td>11/14/2012</td> </tr> <tr> <td>Xiangzhi ZHOU</td> <td>11/14/2012</td> </tr> </tbody> </table>		Name	Execution Date	Mitsue MIYAZAKI	11/14/2012	Cheng OUYANG	11/14/2012	Xiangzhi ZHOU	11/14/2012		
Name	Execution Date										
Mitsue MIYAZAKI	11/14/2012										
Cheng OUYANG	11/14/2012										
Xiangzhi ZHOU	11/14/2012										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>KABUSHIKI KAISHA TOSHIBA</td> </tr> <tr> <td>Street Address:</td> <td>1-1, Shibaura, 1-chome</td> </tr> <tr> <td>City:</td> <td>Minato-ku, Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>105-8001</td> </tr> </table>		Name:	KABUSHIKI KAISHA TOSHIBA	Street Address:	1-1, Shibaura, 1-chome	City:	Minato-ku, Tokyo	State/Country:	JAPAN	Postal Code:	105-8001
Name:	KABUSHIKI KAISHA TOSHIBA										
Street Address:	1-1, Shibaura, 1-chome										
City:	Minato-ku, Tokyo										
State/Country:	JAPAN										
Postal Code:	105-8001										
<table border="1"> <tr> <td>Name:</td> <td>TOSHIBA MEDICAL SYSTEMS CORPORATION</td> </tr> <tr> <td>Street Address:</td> <td>1385, Shimoishigami</td> </tr> <tr> <td>City:</td> <td>Otawara-shi, Tochigiken</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>324-8550</td> </tr> </table>		Name:	TOSHIBA MEDICAL SYSTEMS CORPORATION	Street Address:	1385, Shimoishigami	City:	Otawara-shi, Tochigiken	State/Country:	JAPAN	Postal Code:	324-8550
Name:	TOSHIBA MEDICAL SYSTEMS CORPORATION										
Street Address:	1385, Shimoishigami										
City:	Otawara-shi, Tochigiken										
State/Country:	JAPAN										
Postal Code:	324-8550										
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>13705582</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13705582						
Property Type	Number										
Application Number:	13705582										
CORRESPONDENCE DATA											
Fax Number:	703-816-41										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	703-816-4000										
Email:	sjg@nixonvan.com										
Correspondent Name:	NIXON & VANDERHYE, PC										
Address Line 1:	901 NORTH GLEBE ROAD, 11TH FLOOR										
Address Line 4:	ARLINGTON, VIRGINIA 22203										

OP \$40.00 13705582

ATTORNEY DOCKET NUMBER:	4813-139
NAME OF SUBMITTER:	Larry S. Nixon
Total Attachments: 2 source=Assignment#page1.tif source=Assignment#page2.tif	

**ASSIGNMENT FOR PATENT APPLICATION**  
**(U.S. Rights Only)**

WHEREAS, MITSUE MIYAZAKI, CHENG OUYANG and XIANGZHI ZHOU (hereinafter ASSIGNORS), all c/o Intellectual Property Department, Toshiba Medical Systems Corporation, 1385, Shimoishigami, Otawara-shi, Tochigi-ken; Japan, 324-8550, have made an invention entitled MRI DETECTION OF TISSUE MACROMOLECULAR CHARACTERISTICS USING MTC EFFECTS for which a so-entitled application for Letters Patent of the United States is being concurrently executed herewith;

WHEREAS, KABUSHIKI KAISHA TOSHIBA and TOSHIBA MEDICAL SYSTEMS CORPORATION (hereinafter ASSIGNEES), both corporations of the Country of Japan, having an office and place of business at 1-1, Shibaura 1-chome, Minato-ku, Tokyo, Japan 105-8001, and 1385, Shimoishigami, Otawara-shi, Tochigi-ken, Japan 324-8550, respectively, are desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNORS by these presents hereby sell, assign and transfer unto the said ASSIGNEES, its successors, assigns and legal representatives, ASSIGNORS' entire right, title and interest in the United States of America as defined in 35 U.S.C. §100, in and to the invention as described in the aforesaid application and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues and substitutes of said application, and all resulting patents, and the ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEES, for their interest as ASSIGNEES, their successors, assigns and legal representatives. It is understood and agreed that ASSIGNEES' attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEES and will continue to represent only ASSIGNEES with respect to this invention;

ASSIGNORS hereby agree to execute any papers by ASSIGNEES, their successors, assigns and legal representatives, deemed essential to ASSIGNEES' full protection and title in and to the invention hereby transferred.

AGREED and executed as noted below:

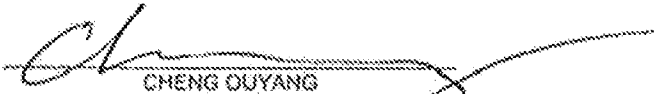
11/14/2012  
Date

Signature of inventor

  
MITSUE MIYAZAKI

11/14/2012  
Date

Signature of inventor

  
CHENG OUYANG

11.14.2012  
Date

Signature of inventor

  
XIANGZHI ZHOU

Witnessed by:

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_