

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>Ilmar HEIN</td> <td>01/24/2013</td> </tr> <tr> <td>Alexander ZAMYATIN</td> <td>01/28/2013</td> </tr> </tbody> </table>		Name	Execution Date	Ilmar HEIN	01/24/2013	Alexander ZAMYATIN	01/28/2013				
Name	Execution Date										
Ilmar HEIN	01/24/2013										
Alexander ZAMYATIN	01/28/2013										
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, MINATO-KU</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>105-8001</td> </tr> </table>		Name:	KABUSHIKI KAISHA TOSHIBA	Street Address:	1-1, SHIBAURA 1-CHOME, MINATO-KU	City:	TOKYO	State/Country:	JAPAN	Postal Code:	105-8001
Name:	KABUSHIKI KAISHA TOSHIBA										
Street Address:	1-1, SHIBAURA 1-CHOME, MINATO-KU										
City:	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, TOCHIGI-KEN</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, TOCHIGI-KEN	State/Country:	JAPAN	Postal Code:	324-8550
Name:	TOSHIBA MEDICAL SYSTEMS CORPORATION										
Street Address:	1385 SHIMOISHIGAMI										
City:	OTAWARA-SHI, TOCHIGI-KEN										
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>13756082</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13756082						
Property Type	Number										
Application Number:	13756082										
CORRESPONDENCE DATA											
Fax Number:	2155990601										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	215-599-0604										
Email:	kyoshida@yoshida-and-associates.com										
Correspondent Name:	YOSHIDA & ASSOCIATES LLC										
Address Line 1:	1628 JOHN F. KENNEDY BOULEVARD										
Address Line 2:	EIGHT PENN CENTER, SUITE 1350										
Address Line 4:	PHILADELPHIA, PENNSYLVANIA 19103										

OP \$40.00 13756082

ATTORNEY DOCKET NUMBER:	TOSHIBA-1053
NAME OF SUBMITTER:	KEN I YOSHIDA
Signature:	/KEN I. YOSHIDA/
Date:	05/01/2013
Total Attachments: 2 source=98G210392USAA_T3KH12S1085_TOSHIBA1053_ASSIGNMENT final#page1.tif source=98G210392USAA_T3KH12S1085_TOSHIBA1053_ASSIGNMENT final#page2.tif	

DOCKET NO.: TOSHIBA-1053
Toshiba Ref. No: 98G210392-USA-A (TMRU-237)
Suzuye Ref: T3KH-12S1085

PATENT

ASSIGNMENT

WHEREAS, WE, **Ilmar HEIN**, residing in **Chicago, IL, US**, and **Alexander ZAMYATIN**, residing in **Hawthorn, IL, US**, hereinafter referred to as the assignors, are the inventors of certain inventions or improvements for which we have made application for Letters Patent to the United States, identified as **Attorney Docket No. TOSHIBA-1053**, entitled **"System Optics in at Least in One of Backprojection and Forward Projection for Model-based Iterative Reconstruction,"** filed on **January 31, 2013** (to be filled in by Attorney) and accorded US Patent Application No. **13/756,082** (to be filled in by Attorney).

22 Y
Reg 37009
5/1/2013

WHEREAS, **KABUSHIKI KAISHA TOSHIBA** and **TOSHIBA MEDICAL SYSTEMS CORPORATION**, hereinafter referred to as the assignees, of **1-1, Shibaura, 1-chome, Minato-ku, Tokyo, JAPAN 105-8001** and **1385, Shimoishigami, Otawara-shi, Tochigi-ken, JAPAN, 324-8550**, corporations of **Japan**, are desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said applications including the right to claim priority to the applications in any foreign application entitled to claim such priority under national law, international conventions, treaties or otherwise, and any and all continuations, divisions and renewals of and substitutes for said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our name applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

DOCKET NO.: TOSHIBA-1053
Toshiba Ref. No: 98G210392-USA-A (TMRU-237)
Suzuye Ref: T3KH-12S1085


PATENT

AND We hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, all known facts respecting said inventions or improvements, said applications and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND We hereby authorize and request the Director – U.S. Patent and Trademark Office and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the applications aforesaid, in accordance with the terms of this assignment.

IN WITNESS WHEREOF, I have hereunto set my hand and seal.

Dated: 1-24-2013  _____ (L. S.)
Ilmar HEIN

Dated: 1/28/2013  _____ (L. S.)
Alexander ZAMYATIN