

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
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EPAS ID: PAT3301345

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SCOTT TASHMAN	01/27/2015
GEORGETA-ELISABETA MARAI	01/29/2015
MD ABEDUL HAQUE	03/17/2015
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<b>Postal Code:</b>	15260
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14397418
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(216)586-6758
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	216-586-6650
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<b>ATTORNEY DOCKET NUMBER:</b>	106852.54WOUS
<b>NAME OF SUBMITTER:</b>	JAMES J. PINGOR
<b>SIGNATURE:</b>	/James J. Pingor/
<b>DATE SIGNED:</b>	04/08/2015
<b>Total Attachments: 6</b>	
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## PATENT ASSIGNMENT

In consideration of my rights and obligations under the University of Pittsburgh Patent Policy and Procedures and of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, and intending to be legally bound hereby, the undersigned inventor hereby sells, assigns and transfers to the University of Pittsburgh – Of the Commonwealth System of Higher Education, a non-profit corporation of the Commonwealth of Pennsylvania (Assignee), its successors, assigns and legal representatives: 1) my entire right, title and interest, for all countries, in and to any and all inventions, developments and improvements (collectively "Inventions") which are disclosed in the appended patent application entitled: INTELLIGENT ALGORITHMS FOR TRACKING THREE-DIMENSIONAL SKELETAL MOVEMENT FROM RADIOGRAPHIC IMAGE SEQUENCES, filed on May 2, 2013 and assigned Serial No. PCT/US13/39290, and INTELLIGENT ALGORITHMS FOR TRACKING THREE-DIMENSIONAL SKELETAL MOVEMENT FROM RADIOGRAPHIC IMAGE SEQUENCES, filed on October 27, 2014 and assigned Serial No. 14/397,418) in and to any and all United States and foreign patent applications including all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed on any of said Inventions, disclosed in the Disclosure of Invention; and 2) to all original patents, reissued patents, confirmation patents and patents of addition which have been or shall be issued on said Inventions; and 3) in and to any and all continuations, extensions, and/or renewals thereof, including all priority rights under the International Convention associated therewith for each country of the Union.

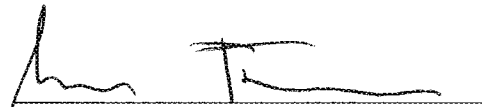
I agree that Assignee shall have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by me had this assignment not been made.

I hereby authorize and request the United States Commissioner of Patents and Trademarks and any corresponding foreign officer to issue to Assignee, its successors, assigns and legal representatives, any and all United States and foreign Letters Patent on said Inventions disclosed in the Disclosure of Invention.

I agree that, when requested, without charge to, but at the expense of Assignee, I will: 1) execute, for all countries, all divisional, continuing, substitute, renewal, reissue and all other patent applications on any and all said Inventions; 2) execute all rightful oaths and other papers; 3) communicate all facts known to me relating to said Inventions and the history thereof, 4) testify in all legal proceedings; and 5) generally do everything possible which Assignee, its successors, assigns and representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said Inventions, and for vesting title therein in Assignee, its successors, assigns and legal representatives.

I covenant with Assignee, its successors, assigns and legal representatives that I have made to others no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed, and that the undersigned have full right to convey the same.

Date: 1/27/2015

  
\_\_\_\_\_  
Scott Tashman

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

\_\_\_\_\_  
Georgeta-Elisabeta Marai

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

\_\_\_\_\_  
Md Abedul Haque

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

\_\_\_\_\_  
Scott Tashman

Date: 01/29/2015

\_\_\_\_\_  
Georgeta-Elisabeta Marai

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

\_\_\_\_\_  
Md Abedul Haque

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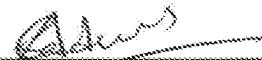
Date: \_\_\_\_\_

\_\_\_\_\_  
Scott Tashman

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

\_\_\_\_\_  
Georgeta-Elisabeta Marai

Date: March 17<sup>th</sup> 2015

  
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Md. Abdul Haque