505787480 11/22/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5834308

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
OLEG MISHIN	07/29/2011
ELENA PAVLOVSKAIA	07/29/2011
BORIS E. SHPUNGIN	07/29/2011
ILWHAN PARK	11/19/2009
VENKATA SURYA SARVA	11/19/2009
IRENE MIN CHOI	11/19/2009

RECEIVING PARTY DATA

Name:	OTISMED CORPORATION	
Street Address:	2825 AIRVIEW BLVD.	
City:	KALAMAZOO	
State/Country:	ate/Country: MICHIGAN	
Postal Code:	49002	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16522281

CORRESPONDENCE DATA

Fax Number: (816)753-1536

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.

Phone: 8167531000

Email: uspt@polsinelli.com, dcarrera@polsinelli.com

Correspondent Name: POLSINELLI PC **Address Line 1:** 900 W. 48TH PL.

Address Line 2: SUITE 900

Address Line 4: KANSAS CITY, MISSOURI 64112

ATTORNEY DOCKET NUMBER: 065618-608117		
NAME OF SUBMITTER: DONNA CARRERA		
SIGNATURE:	/Donna Carrera for Joshua Pranckun/	
DATE SIGNED:	GNED: 11/22/2019	

PATENT 505787480 REEL: 051085 FRAME: 0815

Total Attachments: 6

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PATENT REEL: 051085 FRAME: 0816

former PTO/SB/15 (8-00) Modified LDLK&M

ACCIONISTENT OF LITTERY ADDITION	Docket Number (Optional)	
ASSIGNMENT OF UTILITY APPLICATION	065618-425566	
Whereas, I, Oleg Mishin	of	
653 Scorpio Lane, Foster City, California 94404 USA		
hereafter referred to as assignor, have with others invented certain new and useful improvements in SYSTEM AND METHOD FOR IMAGE SEGMENTATION IN GENERATING COMPUTER MODELS OF A JOINT TO UNDERGO ARTHROPLASTY		
X for which an application for a United States Letters Patent was filed on April 18, 2011 Application Number 13/066,568		
for which an application for a United States Letters Pater and	nt was executed by me on '	
Whereas, OtisMed Corporation		
a corporation of California herein referred to as "assignee" whose	mailing address is	
1600 Harbor Bay Parkway, Suite 200, Alameda, California 9	94502	
is desirous of acquiring the entire right, title and interest in the sa	ame;	
NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.		
And I do hereby authorize my attorneys to insert on this deed the when known.	e filing date and application number of said application	
23 July 2011 (Date) (Signature)		
State of CHUFORNIA) SS: County of HUAMEDA)		
On this 29 day of,,,		
19usta.		
(Notary Public) \	KANAN GUPTA COMM. # 1920594 C	
*Total of forms are submitted.	ALAMEDA COUNTY	
	My Comm Expires Jan. 14, 2015	

2877475

former PTO/SB/15 (8-00) Modified LDLK&M

	Docket Number (Optional)	
ASSIGNMENT OF UTILITY APPLICATION	065618-425566	
Whereas, I, Elena Pavlovskaia	of .	
933 Teresita Blvd., San Francisco, California 94125 USA		
hereafter referred to as assignor, have with others invented certain new and useful improvements in SYSTEM AND METHOD FOR IMAGE SEGMENTATION IN GENERATING COMPUTER MODELS OF A JOINT TO UNDERGO ARTHROPLASTY		
X for which an application for a United States Letters Pate Application Number 13/066,568	ent was filed on April 18, 2011	
for which an application for a United States Letters Pater and	nt was executed by me on	
Whereas, OtisMed Corporation		
a corporation of California herein referred to as "assignee" whose	*	
1600 Harbor Bay Parkway, Suite 200, Alameda, California		
is desirous of acquiring the entire right, title and interest in the sa	ame;	
NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.		
And I do hereby authorize my attorneys to insert on this deed the when known.	te ming date and application number of said application	
July 29, 204	(in)	
July 29, 204	(Signature)	
State of CAUFORNIA) SS: County of AUAMEDIA) On this 2 1 day of Twy 2011 before the county of the	ore me personally came the above-named, Elena ecuted the foregoing instrument, who acknowledged to	
Kgupta		
(Notary Public)	KANAN GUPTA	
	COMM. # 1920594	
*Total of forms are submitted.	ALAMEDA COUNTY My Comin Expires Jan. 14, 2015	

2877451

former PTO/SB/15 (8-00) Modified LDLK&M

Whereas, I, Boris E, Shpungin 4245 Stanley Blvd., Apt. 7, Pleasanton, California 94566 USA hereafter referred to as assignor, have with others invented cartain new and useful improvements in SYSTEM AND METHOD FOR IMAGE SEGMENTATION IN GENERATING COMPUTER MODELS OF A JOINT TO UNDERGO ARTHROPLASTY for which an application for a United States Letters Patent was filled on April 18, 2011 Application Number 3066, 568 for which an application for a United States Letters Patent was executed by me on and or which an application for a United States Letters Patent was executed by me on and or which an application for a United States Letters Patent was executed by me on and or which an application for a United States Letters Patent was executed by me on and or which an application for a United States Letters Patent was executed by me on and or which an application for a United States Letters Patent was executed by me on and or which an application for a United States Letters Patent was executed by me on and or which an application for a United States Letters Patent was executed by me on and or which an application for a United States Letters Patent was executed by me on and or which an application for a United States of America and a lother countries in a comparison of California 94502 is desirous of acquiring the entire right, title and interest in the same; NOW, THEREFORE, in consideration of the sum of one doi: 10.00		Docket Number (Optional)	
A245 Stanley Blvd., Apt. 7, Pleasanton, California 94566 USA hereafter referred to as assignor, have with others invented certain new and useful improvements in SYSTEM AND METHOD FOR IMAGE SEGMENTATION IN GENERATING COMPUTER MODELS OF A JOINT TO UNDERGO ARTHROPLASTY Yor which an application for a United States Letters Patent was filed on April 18, 2011	ASSIGNMENT OF UTILITY APPLICATION	065618-425566	
A245 Stanley Blvd., Apt. 7, Pleasanton, California 94566 USA hereafter referred to as assignor, have with others invented certain new and useful improvements in SYSTEM AND METHOD FOR IMAGE SEGMENTATION IN GENERATING COMPUTER MODELS OF A JOINT TO UNDERGO ARTHROPLASTY Yor which an application for a United States Letters Patent was filed on April 18, 2011			
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Application Number 13/066,568 for which an application for a United States Letters Patent was executed by me on and and states. Letters Patent was executed by me on and states. OtisMed Corporation a corporation of California herein referred to as "assignee" whose mailing address is 1600 Harbor Bay Parkway, Suite 200, Alameda, California 94502 is desirous of acquiring the entire right, title and interest in the same; NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its representatives all facts known to the undersigned erope training said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications	SYSTEM AND METHOD FOR IMAGE SEGMENTAT	ON IN GENERATING COMPUTER	
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a corporation of California herein referred to as "assignee" whose mailing address is 1600 Harbor Bay Parkway, Suite 200, Alameda, California 94502 is desirous of acquiring the entire right, title and interest in the same; NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigne do retreby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses	Million Company tion		
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when known. 29 Jul 2011 (Date) State of County of ALAMEDA On this 29 day of July Dollbefore me personally came the above-named, Boris B Shpungin, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of bis/her own free will for the purposes therein set forth.	is acknowledged, and other good and valuable consideration, assignee my entire right, title and interest for the United Stat invention and the aforesaid utility patent application and all substitute or reissue applications and patents applied for or grother countries, for said invention, including without limitation a priority or benefit of the aforesaid utility application pursuant to priority or benefit and the Commissioner of Patents and Trader patents on said improvements or resulting therefrom to said therein; and the undersigned for me and my legal representativ without further remuneration, to execute and deliver all original, for Letters Patent on said improvements and all assignments to said assignee or its representatives all facts known to the trequested, to testify in any interferences or other legal proceed become involved, to sign all lawful papers, make all rightful or assignee, its successors, assigns and nominees to obtain pater expenses incident to said applications to be borne and paid by second	I as assignor hereby sell, assign and set over the set of America and all other countries in and the original, divisional, continuation, continuation, anted therefor in the United States of America all applications and patents for said invention of any law or treaty, and including the right to clair marks is hereby authorized and requested to is assignee herein, as assignee of the entire it was, heirs and assigns do hereby agree and condivisional, continuation, reissue and other applications, to communicate the continuation of the improvements, which any of said applications or patenaths, and to do generally everything necessary the protection for said improvements in all countripations.	to said to said in-part, and all iaiming m such sue all nterest venant cations unicate enever ts may to aid es, the
State of County of AUTOMA) SS: On this 29 day of July , Jol before me personally came the above-named, Boris B Shpungin, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of bis/her own free will for the purposes therein set forth.	when known.	e filing date and application number of said app	lication
On this 29 day of July , Jol before me personally came the above-named, Boris B Shpungin, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of bis/her own free will for the purposes therein set forth.	(Date)	(Signature)	
On this 29 day of July , 201 before me personally came the above-named, Boris B Shpungin, to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him/her of bis/her own free will for the purposes therein set forth.	County of ALAMISM)		
*Total of forms are submitted.	Shpungin, to me personally known as the individual who execut	ted the foregoing instrument, who acknowledged	Boris B
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*Total of forms are submitted. *My Comm F vores Jan. 14, 2015 My Comm F vores Jan. 14, 2015	(Notary Public)	KANAN GUPTA	AND
2877478 ANW-DA COUNTY My Comm Expires Jan. 14, 2015 My Comm Expires Jan. 14, 2015	*Total of forms are submitted.	COMM. # 1920594	AMED AMED
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8 Ta	2877478	my commit typics Jain. 14, 2015	PTA .0594 .1FORNIA NTY .14, 2015

PATENT REEL: 051085 FRAME: 0819

ASSIGNMENT

WHEREAS, we, Ilwhan Park, residing at 1743 Holland Circle, Walnut Creek, California 94597 U.S.A., Venkata Surya Sarva, residing at 44958 Cougar Circle, Fremont, California 94539 U.S.A., and Irene Min Choi, residing at 3 Admiral Drive, #452, Emeryville, California 94608 U.S.A. (hereinafter, individually and collectively the "Assignor"), have invented certain new and useful systems, devices, and methods disclosed and described in a utility application for Letters Patent in the United States ("U.S."), entitled "Arthroplasty System and Related Methods," which can be identified in the United States Patent and Trademark Office ("USPTO") by U.S. Patent Application No. 12/546,545, filed on August 24, 2009 (the "Utility Application") with attorney docket No. 189688/US/2. The Utility Application claims priority to U.S. Provisional Patent Application No. 61/102,692, filed on October 3, 2008, entitled "Arthroplasty System and Related Methods" and is also a continuation-in-part of U.S. Patent Application No. 11/959,344, filed on December 18, 2007, entitled "System and Method for Manufacturing Arthroplasty Jigs";

WHEREAS, OtisMed Corporation, a corporation organized and existing under the laws of the State of California, and having its principal place of business at 1600 Harbor Bay Parkway, Suite 200, Alameda, California 94502 U.S.A. (the "Assignee"), by the following earlier Assignments own all right, title, and interest in and to the following U.S. Provisional Patent Application and U.S. Application:

- (1) Assignment recorded with the USPTO at Reel/Frame 021727/0447 on October 23, 2008 for U.S. Provisional Patent Application No. 61/102,692, filed on October 3, 2008, entitled "Arthroplasty System and Related Methods"; and
- (2) Assignment recorded with the USPTO at Reel/Frame 020648/0510 on March 13, 2008 for U.S. Patent Application No. 11/959,344, filed on December 18, 2007, entitled "System and Method For Manufacturing Arthroplasty Jigs";

WHEREAS, to the extent that Assignor now owns any right, title and interest in the invention described and claimed in the Utility Application not already transferred to OtisMed Corporation by the earlier Assignments, Assignor is desirous of assigning interest in and to the Utility Application, and any provisional, non-provisional, continuation, continuation-in-part, divisional, international, foreign, regional and convention applications corresponding thereto, and any and all Letters Patent of the United States and countries and regions foreign thereto which may grant or have granted thereto or be lodged in relation thereto, any reissue or reexamination thereof or to be obtained therefor, any renewals, or substitutes thereof, and any and all priority rights or priority claims, International Convention rights, any and all rights to collect past damages for infringement of any and all Letters Patent of the United States and countries and regions foreign thereto which may be published, which may grant, or have granted thereto or be lodged in relation thereto, and other benefits accruing to or to accrue to Assignor with respect to the filling of applications for patents or securing of patents in the United States and countries foreign thereto (the "Patent Rights"); and

WHEREAS, Assignee desires to acquire any and all, right, title, and interest of Assignor in and to the invention(s), the Patent Rights, and in, to, and under any and all Letters Patent to be obtained therefor;

NOW THEREFORE, for the sum of \$1.00 and other good and valuable consideration to Assignor in hand paid, the receipt and sufficiency of which are hereby acknowledged, Assignor has sold, assigned, and transfer and by these presents does hereby sell, assign and transfer to

1 of 3

the said Assignee, and said Assignee's legal representatives, successors and assigns, any and all of the entire right, title and interest in and to the invention(s), Patent Rights, and any and all Letters Patent to be obtained therefor:

UPON SAID CONSIDERATION, the Assignor hereby covenants and agrees with the said Assignee that it will not execute any writing or do any act whatsoever conflicting with these presents, and that it will, at any time upon request, without further or additional consideration. but at the expense of the said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, provisionals, non-provisionals, continuations, continuations-in-part, continuing prosecutions, divisionals, renewals, reissues, reexamined or extended Letters Patent of the United States, or of any and all foreign countries, on said Patent Rights, and execute confirmatory assignments or acknowledgments of this Assignment as necessary for full enjoyment of the Patent Rights and for recording in foreign patent offices, and in enforcing any rights or choses in action accruing as a result of such Patent Rights, by giving testimony in any proceedings or transactions involving such Patent Rights, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of both parties;

UPON SAID CONSIDERATION, Assignor represents and warrants that Assignor has the right, title, and authority to execute this Assignment and to convey any and all right, title, and interest in the Patent Rights, and that Assignor has not conveyed nor will convey hereafter all or part of the Patent Rights to a third party;

ASSIGNOR HEREBY AUTHORIZES said Assignee, its successors, and assigns, or anyone it may properly designate, to apply for Letters Patent in the U.S. and any and all foreign countries and regions, in its own name if desired, and additionally to claim priority to the filing date of the Utility Application and otherwise take advantage of the provisions of any international conventions.

IN TESTIMONY WHEREOF, the Assignor hereunto has executed this Assignment upon the dates indicated below.

Date:	11/19/2009	_, 2009	By: By:
Date:	11/19/2009	_, 2009	By:
Date:	11/19/09	_, 2009	By:

ACCEPTANCE OF ASSIGNMENT

The Assignee hereby acknowledges and accepts the foregoing assignment of rights by Assignor.

IN TESTIMONY WHEREOF, the Assignee, by its undersigned officer, confirms its acceptance on the date and in the place set forth below.

OTISMED CORPORATION

Date: 1/20, 2009

Name: Charlie Chi

Title: CEO

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PATENT REEL: 051085 FRAME: 0822