502603723 12/16/2013

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2650082

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------|----------------|
| SEAN SELOVER | 12/07/2004 |
| CHRISTOPHER W. SICVOL | 11/30/2004 |
| RONALD NAUGHTON | 11/24/2004 |
| NANCY M. SHEEHY | 12/02/2004 |
| PAUL BIRKMEYER | 11/30/2004 |

RECEIVING PARTY DATA

| Name: | DEPUY SPINE, INC. |
|-----------------|---------------------|
| Street Address: | 325 PARAMOUNT DRIVE |
| City: | RAYNHAM |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 02767-0350 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13453421 |

CORRESPONDENCE DATA

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Address Line 2: KEVIN J. CANNING

Address Line 4: BOSTON, MASSACHUSETTS 02109

| ATTORNEY DOCKET NUMBER: | DUQ-003CN |
|-------------------------|------------------|
| NAME OF SUBMITTER: | KEVIN J. CANNING |
| | PAIENI |

502603723 REEL: 031790 FRAME: 0823

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| Signature: | /Kevin J. Canning/ |
|--|--------------------|
| Date: | 12/16/2013 |
| Total Attachments: 6 source=DUQ-003CN#page1.tif source=DUQ-003CN#page2.tif source=DUQ-003CN#page3.tif source=DUQ-003CN#page4.tif source=DUQ-003CN#page5.tif source=DUQ-003CN#page6.tif | |

PATENT REEL: 031790 FRAME: 0824

ASSIGNMENT BY INVENTORS

WE, Sean SELOVER; Christopher W. SICVOL; Ronald NAUGHTON; Nancy M. SHEEHY; and Paul BIRKMEYER, of Tiverton, Rhode Island; Boston, Massachusetts; Tiverton, Rhode Island; South Boston, Massachusetts; and Marshfield, Massachusetts, respectively, in consideration of One Dollar and other valuable consideration paid to us by

DePuy Spine, Inc.

a Corporation of Ohio, having its principal place of business at 325 Paramount Drive, Raynham, Massachusetts 02767-0350, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

DePuy Spine, Inc.

its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

RIGIDLY GUIDED IMPLANT PLACEMENT

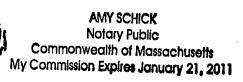
| described in an application |
|--|
| Executed by us of even date herewith and about to be filed |
| or |
| x Application No. 10/913,178, filed on August 6, 2004 |

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said Corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said Corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

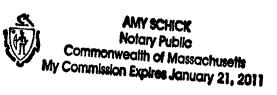
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| Date: <u>December 7, 2004</u> | | | | |
|---|--------------------------------|------------------|----------------|------------------|
| United States of America | ,) | | | |
| State of Masac | nusetts jss.: | | | |
| County of By ist | 0[) | | | |
| On this 7 th day of the undersigned notary public, per (name of document signer), prov | December ersonally appeared | Sean S | 2004 Elover | before me, the |
| (name of document signer), prov | ed to me through s | atisfactory evic | dence of ide | entification, |
| which was personally K | nountone | , | | erson whose name |
| which was personally K is signed on the preceding or atta | ched document in | my presence. | • | |
| Amy Schick | | official signati | ire and seal | of notary) |
| My commission expires | -21-2011 | | | |



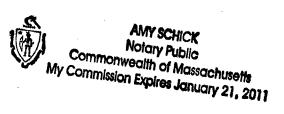
Christopher W. Sicvol

| Date: 30 No. | 2004 | · · | | | |
|--|---------------|----------------------------|--------------|-------------------|-------------------|
| United States of Ame | rica |) | | | |
| State of | Massachu | sets) ss.: | | | |
| County of | Bristol |) | | | |
| On this 30 ^{+h} the undersigned notar | | November rsonally appeared | , Chris | 2004 stopher S | before me, the |
| (name of document si | igner), prove | ed to me through | satisfactory | evidence of i | dentification, |
| which was person | ally Know | un to me | | , to be the | person whose name |
| which was personally Known to be the person whose name is signed on the preceding or attached document in my presence. | | | | | |
| _ Amy | Scheck | | | nature and se | |
| My commission expi | res | 1-01-200 | | | |



| | RonaldyNaughton |
|--|--|
| Date: 11-24-04 | · · |
| United States of America |) |
| State of New gerse | <u>4</u>) ss.: |
| County of Warren | |
| On this 24 day of 1004 the undersigned notary public, personally | |
| (name of document signer), proved to me | through satisfactory evidence of identification, |
| which was driver's license | |
| is signed on the preceding or attached doo | The state of the s |
| To the standard | (official signature and seal of notary) |
| fanci m valor | (Official signature and sear of notary) |
| My commission expires | JANET M. FANDEL |
| | STATE OF NEW JERSEY MY COMMISSION EXPIRES FEB. 9, 2009 |

| | Dancy M Sharry |
|--|---|
| | Mancy M. Sheehy |
| Date: 12/2/04 | |
| United States of America |) |
| State of Massachu | (sets) ss.: |
| County of Bristol | |
| On this 2nd day of the undersigned notary public, personance of document signer), proved | onally appeared Noncy M Sheehy to me through satisfactory evidence of identification, |
| | hown time, to be the person whose name |
| is signed on the preceding or attach Any Luch My commission expires | (official signature and seal of notary) |
| Triy commission expires | 191911 |



| | Part Berkmen |
|---|--|
| | Paul Birkmeyer |
| Date: | · . |
| United States of America | |
| State of Massachusetts state of | s.: |
| County of Bristol) | |
| On this 30+h day of November the undersigned notary public, personally appear (name of document signer), proved to me through | ed Paul Birkmeyer h satisfactory evidence of identification, |
| which was personally Known to Muis signed on the preceding or attached document | , to be the person whose name |
| Is signed on the preceding or attached document | (official signature and seal of notary) |
| My commission expires $1-2/4$ | 011 |

AMY SCHICK
Notary Public
Commonwealth of Massachusetts
My Commission Expires January 21, 2011