

## 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>Marc M. SANDERS</td> <td>02/10/2010</td> </tr> <tr> <td>Thomas Allard BONNEMA</td> <td>09/04/2006</td> </tr> <tr> <td>Kevin Michael AMESBURY</td> <td>09/14/2006</td> </tr> <tr> <td>Paul John FIRKIN</td> <td>08/31/2006</td> </tr> </tbody> </table>		Name	Execution Date	Marc M. SANDERS	02/10/2010	Thomas Allard BONNEMA	09/04/2006	Kevin Michael AMESBURY	09/14/2006	Paul John FIRKIN	08/31/2006
Name	Execution Date										
Marc M. SANDERS	02/10/2010										
Thomas Allard BONNEMA	09/04/2006										
Kevin Michael AMESBURY	09/14/2006										
Paul John FIRKIN	08/31/2006										
RECEIVING PARTY DATA											
Name:	DePuy International Ltd										
Street Address:	St. Anthonys Road										
Internal Address:	Beeston, Leeds,										
City:	West Yorkshire										
State/Country:	UNITED KINGDOM										
Postal Code:	LS118DT										
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>11340259</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11340259						
Property Type	Number										
Application Number:	11340259										
CORRESPONDENCE DATA											
Fax Number:	6177424214										
Phone:	6175734700										
Email:	pamela.pari@nelsonmullins.com										
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>											
Correspondent Name:	Nelson Mullins Riley & Scarborough LLP										
Address Line 1:	One Post Office Square										
Address Line 4:	Boston, MASSACHUSETTS 02109										
ATTORNEY DOCKET NUMBER:	DUQ-019RCE4										
NAME OF SUBMITTER:	Kevin J. Canning										

CH \$40.00 11340259

**Total Attachments: 24**

source=DUQ\_019\_Assignment##page1.tif  
source=DUQ\_019\_Assignment##page2.tif  
source=DUQ\_019\_Assignment##page3.tif  
source=DUQ\_019\_Assignment##page4.tif  
source=DUQ\_019\_Assignment##page5.tif  
source=DUQ\_019\_Assignment##page6.tif  
source=DUQ\_019\_Assignment##page7.tif  
source=DUQ\_019\_Assignment##page8.tif  
source=DUQ\_019\_Assignment##page9.tif  
source=DUQ\_019\_Assignment##page10.tif  
source=DUQ\_019\_Assignment##page11.tif  
source=DUQ\_019\_Assignment##page12.tif  
source=DUQ\_019\_Assignment##page13.tif  
source=DUQ\_019\_Assignment##page14.tif  
source=DUQ\_019\_Assignment##page15.tif  
source=DUQ\_019\_Assignment##page16.tif  
source=DUQ\_019\_Assignment##page17.tif  
source=DUQ\_019\_Assignment##page18.tif  
source=DUQ\_019\_Assignment##page19.tif  
source=DUQ\_019\_Assignment##page20.tif  
source=DUQ\_019\_Assignment##page21.tif  
source=DUQ\_019\_Assignment##page22.tif  
source=DUQ\_019\_Assignment##page23.tif  
source=DUQ\_019\_Assignment##page24.tif

**ASSIGNMENT BY INVENTORS**

WE, Marc M. SANDERS; Thomas Allard Xander BONNEMA; Kevin Michael AMESBURY; and Paul John FIRKINS, of Hengelo, Netherlands; Hengelo, Netherlands; Derbyshire, United Kingdom; and Worcs, United Kingdom, respectively, in consideration of One Dollar and other valuable consideration paid to us by

DePuy International Ltd

a company organized under the laws of the United Kingdom having its principal place of business at St. Anthonys Road, Beeston, Leeds, West Yorkshire, United Kingdom LS11 8DT, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

DePuy International Ltd

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

**SYSTEM AND METHOD FOR COOLING A SPINAL CORRECTION DEVICE COMPRISING  
A SHAPE MEMORY MATERIAL FOR CORRECTIVE SPINAL SURGERY**

described in an application

Executed by us of even date herewith and about to be filed

or

Application No. 11/340,259, filed on January 26, 2006

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.

And we do further hereby grant the attorneys/agents of Lahive & Cockfield, LLP, the power to insert on this Assignment the filing date and/or application number of said application.

DUQ-019/DEP5588

\_\_\_\_\_

Date

\_\_\_\_\_

Marc M. Sanders

**Witness:**

\_\_\_\_\_

Date

\_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
Thomas Allard Xander Bonnema

**Witness:**

\_\_\_\_\_  
Date

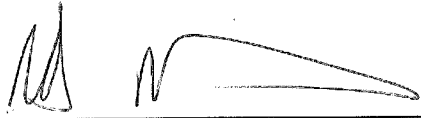
\_\_\_\_\_  
Date

\_\_\_\_\_  
Kevin Michael Amesbury

**Witness:**

\_\_\_\_\_  
Date

31st August 2006  
Date

  
Paul John Firkins

**Witness:**

31.08.2006  
Date

  
\_\_\_\_\_



**ASSIGNMENT BY INVENTORS**

WE, Marc M. SANDERS; Thomas Allard Xander BONNEMA; Kevin Michael AMESBURY; and Paul John FIRKINS, of Hengelo, Netherlands; Hengelo, Netherlands; Derbyshire, United Kingdom; and Worcs, United Kingdom, respectively, in consideration of One Dollar and other valuable consideration paid to us by

DePuy International Ltd

a company organized under the laws of the United Kingdom having its principal place of business at St. Anthony's Road, Beeston, Leeds, West Yorkshire, United Kingdom LS11 8DT, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

DePuy International Ltd

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

**SYSTEM AND METHOD FOR COOLING A SPINAL CORRECTION DEVICE COMPRISING  
A SHAPE MEMORY MATERIAL FOR CORRECTIVE SPINAL SURGERY**

described in an application

Executed by us of even date herewith and about to be filed

or

Application No. 11/340,259, filed on January 26, 2006

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.

And we do further hereby grant the attorneys/agents of Lahive & Cockfield, LLP, the power to insert on this Assignment the filing date and/or application number of said application.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Marc M. Sanders

**Witness:**

\_\_\_\_\_  
Date

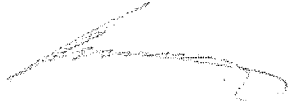
\_\_\_\_\_  
Date

\_\_\_\_\_  
Thomas Allard Xander Bonnema

**Witness:**


\_\_\_\_\_  
Date

\_\_\_\_\_  
Date 14<sup>th</sup> September 2006

  
\_\_\_\_\_  
Kevin Michael Amesbury

**Witness:**

\_\_\_\_\_  
Date 14<sup>th</sup> September 2006

  
\_\_\_\_\_  
Deborah Dawn Ann Stiehl

DUQ-019/DEP5588

\_\_\_\_\_  
Date

\_\_\_\_\_  
Paul John Firkins

**Witness:**

\_\_\_\_\_  
Date

**ASSIGNMENT BY INVENTORS**

WE, Marc M. SANDERS; Thomas Allard Xander BONNEMA; Kevin Michael AMESBURY; and Paul John FIRKINS, of Hengelo, Netherlands; Hengelo, Netherlands; Derbyshire, United Kingdom; and Worcs, United Kingdom, respectively, in consideration of One Dollar and other valuable consideration paid to us by

DePuy International Ltd

a company organized under the laws of the United Kingdom having its principal place of business at St. Anthonys Road, Beeston, Leeds, West Yorkshire, United Kingdom LS11 8DT, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

DePuy International Ltd

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

**SYSTEM AND METHOD FOR COOLING A SPINAL CORRECTION DEVICE COMPRISING  
A SHAPE MEMORY MATERIAL FOR CORRECTIVE SPINAL SURGERY**

described in an application

Executed by us of even date herewith and about to be filed

or

Application No. 11/340,259, filed on January 26, 2006

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.

DUQ-019/DEP5588

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.

And we do further hereby grant the attorneys/agents of Lahive & Cockfield, LLP, the power to insert on this Assignment the filing date and/or application number of said application.



DUQ-019/DEP5588

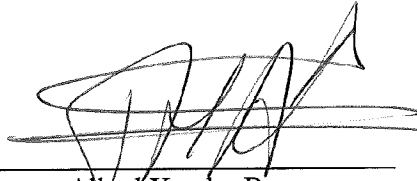
\_\_\_\_\_  
Date

\_\_\_\_\_  
Marc M. Sanders

**Witness:**

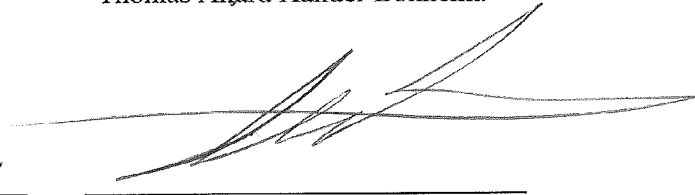
\_\_\_\_\_  
Date

4<sup>th</sup> September 2006  
Date

  
Thomas Allard Xander Bonnema

**Witness:**

4<sup>th</sup> September 2006  
Date

  
A.M.M. Alzma

DUQ-019/DEP5588

\_\_\_\_\_  
Date

\_\_\_\_\_  
Kevin Michael Amesbury

**Witness:**

\_\_\_\_\_  
Date

\_\_\_\_\_

DUQ-019/DEP5588

\_\_\_\_\_  
Date

\_\_\_\_\_  
Paul John Firkins

**Witness:**

\_\_\_\_\_  
Date

**ASSIGNMENT BY INVENTORS**

WE, Marc M. SANDERS; Thomas Allard Xander BONNEMA; Kevin Michael AMESBURY; and Paul John FIRKINS, of North Yorkshire, United Kingdom; Hengelo, Netherlands; Derbyshire, United Kingdom; and Worcs, United Kingdom, respectively, in consideration of One Dollar and other valuable consideration paid to us by

DePuy International Ltd

a company organized under the laws of the United Kingdom having its principal place of business at St. Anthonys Road, Beeston, Leeds, West Yorkshire, United Kingdom LS11 8DT, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

DePuy International Ltd

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

**SYSTEM AND METHOD FOR COOLING A SPINAL CORRECTION DEVICE COMPRISING  
A SHAPE MEMORY MATERIAL FOR CORRECTIVE SPINAL SURGERY**

described in an application

Executed by us of even date herewith and about to be filed

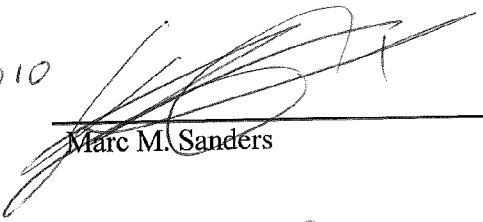
or

Application No. 11/340,259, filed on January 26, 2006

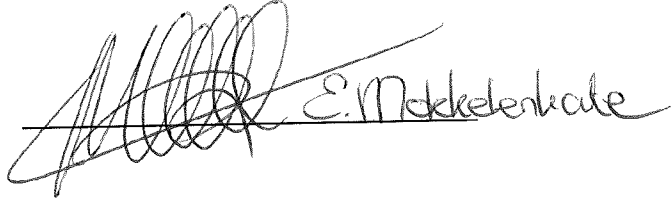
in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part 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.

And we do further hereby grant the attorneys/agents of Lahive & Cockfield, LLP, the power to insert on this Assignment the filing date and/or application number of said application.

10<sup>th</sup> of February 2010  
Date   
Marc M. Sanders

**Witness:**

10th February 2010  
Date   
E. Mckelentale

\_\_\_\_\_  
Date

\_\_\_\_\_  
Thomas Allard Xander Bonnema

**Witness:**

\_\_\_\_\_  
Date

\_\_\_\_\_



\_\_\_\_\_  
Date

\_\_\_\_\_  
Kevin Michael Amesbury

**Witness:**

\_\_\_\_\_  
Date

\_\_\_\_\_

DUQ-019/DEP5588

\_\_\_\_\_  
Date

\_\_\_\_\_  
Paul John Firkins

**Witness:**

\_\_\_\_\_  
Date