

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4637980

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
FRANK PINAL	07/26/2017
BRYAN D. MILZ	07/11/2017
DAN BOLJONIS	08/29/2017
COLLIN DESENS	07/24/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HOWMEDICA OSTEONICS CORP.
<b>Street Address:</b>	325 CORPORATE DRIVE
<b>City:</b>	MAHWAH
<b>State/Country:</b>	NEW JERSEY
<b>Postal Code:</b>	07430
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15480781
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(908)654-0415
<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>	(908) 518-6322
<b>Email:</b>	assignment@lerner david.com
<b>Correspondent Name:</b>	LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP
<b>Address Line 1:</b>	600 SOUTH AVENUE WEST
<b>Address Line 4:</b>	WESTFIELD, NEW JERSEY 07090
<b>ATTORNEY DOCKET NUMBER:</b>	SPINE 3.0F-624
<b>NAME OF SUBMITTER:</b>	MELINDA C. CORMIER
<b>SIGNATURE:</b>	/Melinda C. Cormier/
<b>DATE SIGNED:</b>	10/12/2017
<b>Total Attachments: 4</b>	
source=SPINE 3.0F-624 - Inventor Assignments#page1.tif	
source=SPINE 3.0F-624 - Inventor Assignments#page2.tif	
source=SPINE 3.0F-624 - Inventor Assignments#page3.tif	



**COMBINED DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION (37 CFR 1.63) USING  
AN APPLICATION DATA SHEET**

Attorney, Docket No. SPINE 3.0F-624  
Title of the Invention ("Invention") SURGICAL INSERTION INSTRUMENTS  
Legal Name of Inventor ("Inventor") Frank Pinal  
Assignee ("Assignee") Howmedica Osteonics Corp., incorporated in, New Jersey, and having a place of business at 325 Corporate Drive; Mahwah, New Jersey 07430

DECLARATION

As named inventor, I hereby declare that:

This declaration is directed to:

The attached Application

OR

United States Application Number or PCT International Application Number 15/460,781  
filed on April 6, 2017

that the above-identified Application is/was made or authorized to be made by me;

that I believe I am the original inventor or an original joint inventor of a claimed invention in the above-identified Application; and

that I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

ASSIGNMENT

IN ADDITION TO MAKING THIS DECLARATION, WHEREAS the Assignee is desirous of acquiring, or has acquired and is desirous of memorializing its acquisition further herein, my entire right, title and interest in the above-identified Application.

NOW, THEREFORE, for good and valuable consideration the receipt of which is hereby acknowledged, I agree to assign, and hereby do assign, to Assignee my entire right, title and interest in and to the Application in the United States of America and all other countries, including any and all inventions, discoveries and other subject matter described therein, any divisional, continuation, continuation-in-part, conversion, non-provisional, substitute, reissue, re-examination certificate following Inter Partes Review, certificate following Post Grant Review, all other applications claiming priority to or benefit of the Application pursuant to any law or treaty, and any patent issuing from any of the foregoing. I agree to assign, and hereby do assign, to Assignee the right to claim such priority or benefit. I have not previously conveyed, nor am I aware of an obligation to convey, my rights in the Application to a third party. I hereby authorize the U.S. Patent and Trademark Office, and any other governmental agency in the world, to issue to Assignee all patents resulting from the Application and to record Assignee's ownership thereof. At Assignee's reasonable request I agree, without further remuneration, to execute and deliver documents prepared at Assignee's expense and to provide other cooperation, such as testimony, as may be reasonably required to evidence or protect Assignee's rights in the Application. Assignee may assign or transfer all or part of its rights set forth herein in its sole discretion. I agree that the Assignee may affix its signature to this document as well as any other indicia of its acceptance of the provisions hereof. If any provision herein is unenforceable, the requirements of the provision shall remain to the full extent permissible by law and the offending portions thereof shall be deemed replaced, to the extent possible, with a provision most closely reflecting the purpose of the offending provision.

I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application No. 62/319,460, filed April 7, 2016, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 62/319,460 pursuant to any law or treaty in the countries of the world.

7/26/2017  
(Date)

  
Frank Pinal

**WARNING**

According to 37 C.F.R. 1.63 (c), "[a] person may not execute an oath or declaration unless the person has reviewed and understands the contents of the application, including claims and is aware of the duty to disclose to the Office all information known to be material to patentability as defined in 1.56."

State of New Jersey ) SS:

County of Bergen )

On this 26 of July, 2017 before me personally came above-named Frank Pinal, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that the same was executed by him/her of his/her own free will for the purposes hereof.

**MICHAEL ARAJ**  
NOTARY PUBLIC OF NEW JERSEY  
I.D. # 50625075

My Commission Expires 10/19/2020

Notary Public

**An Application Data Sheet (PTO/SB/14 or Equivalent) naming the entire inventiveness entity must accompany this form unless previously submitted.**

**PATENT  
REEL: 043851 FRAME: 0416**

**COMBINED DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION (37 CFR 1.63) USING AN APPLICATION DATA SHEET**

Attorney, Docket No. SPINE 3.0F-624  
Title of the Invention ("Invention") SURGICAL INSERTION INSTRUMENTS  
Legal Name of Inventor ("Inventor") Bryan D. Milz  
Assignee ("Assignee") Howmedica Osteonics Corp., incorporated in, New Jersey, and having a place of business at 325 Corporate Drive; Mahwah, New Jersey 07430

DECLARATION

As named inventor, I hereby declare that:

This declaration is directed to:

The attached Application

OR

United States Application Number or PCT International Application Number 15/480,781  
filed on April 6, 2017

that the above-identified Application is/was made or authorized to be made by me;

that I believe I am the original inventor or an original joint inventor of a claimed invention in the above-identified Application; and

that I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

ASSIGNMENT

IN ADDITION TO MAKING THIS DECLARATION, WHEREAS the Assignee is desirous of acquiring, or has acquired and is desirous of memorializing its acquisition further herein, my entire right, title and interest in the above-identified Application.

NOW, THEREFORE, for good and valuable consideration the receipt of which is hereby acknowledged, I agree to assign, and hereby do assign, to Assignee my entire right, title and interest in and to the Application in the United States of America and all other countries, including any and all inventions, discoveries and other subject matter described therein, any divisional, continuation, continuation-in-part, conversion, non-provisional, substitute, reissue, re-examination certificate following Inter Partes Review, certificate following Post Grant Review, all other applications claiming priority to or benefit of the Application pursuant to any law or treaty, and any patent issuing from any of the foregoing. I agree to assign, and hereby do assign, to Assignee the right to claim such priority or benefit. I have not previously conveyed, nor am I aware of an obligation to convey, my rights in the Application to a third party. I hereby authorize the U.S. Patent and Trademark Office, and any other governmental agency in the world, to issue to Assignee all patents resulting from the Application and to record Assignee's ownership thereof. At Assignee's reasonable request I agree, without further remuneration, to execute and deliver documents prepared at Assignee's expense and to provide other cooperation, such as testimony, as may be reasonably required to evidence or protect Assignee's rights in the Application. Assignee may assign or transfer all or part of its rights set forth herein in its sole discretion. I agree that the Assignee may affix its signature to this document as well as any other indicia of its acceptance of the provisions hereof. If any provision herein is unenforceable, the requirements of the provision shall remain to the full extent permissible by law and the offending portions thereof shall be deemed replaced, to the extent possible, with a provision most closely reflecting the purpose of the offending provision.

I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application No. 62/319,460, filed April 7, 2016, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 62/319,460 pursuant to any law or treaty in the countries of the world.

7/11/17  
\_\_\_\_\_  
(Date)

Bryan D. Milz  
\_\_\_\_\_  
Bryan D. Milz

**WARNING**

According to 37 C.F.R. 1.63 (c), "[a] person may not execute an oath or declaration unless the person has reviewed and understands the contents of the application, including claims and is aware of the duty to disclose to the Office all information known to be material to patentability as defined in 1.56."

State of New Jersey ) SS:

County of Bergen )

On this 11<sup>th</sup> of July, 2017 before me personally came above-named Bryan D. Milz, 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 his/her own free will for the purposes (in part) stated above.

Michael L. Raj  
NOTARY PUBLIC OF NEW JERSEY  
I.D. # 50025075  
My Commission Expires 10/19/2020  
\_\_\_\_\_  
Notary Public

An Application Data Sheet (PTO/SB/14 or Equivalent) naming the entire inventiveness entity must accompany this form unless previously submitted.

**PATENT**  
**REEL: 043851 FRAME: 0417**

COMBINED DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION (37 CFR 1.63) USING AN APPLICATION DATA SHEET

Attorney, Docket No. SPINE 3.0F-624
Title of the Invention ("Invention") SURGICAL INSERTION INSTRUMENTS
Legal Name of Inventor ("Inventor") Dan Boljonis
Assignee ("Assignee") Howmedica Osteonics Corp., incorporated in, New Jersey, and having a place of business at 325 Corporate Drive; Mahwah, New Jersey 07430

DECLARATION

As named inventor, I hereby declare that:

This declaration is directed to:

[ ] The attached Application

OR

[x] United States Application Number or PCT International Application Number 15/480,781 filed on April 6, 2017

that the above-identified Application is/was made or authorized to be made by me;

that I believe I am the original inventor or an original joint inventor of a claimed invention in the above-identified Application; and

that I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

ASSIGNMENT

IN ADDITION TO MAKING THIS DECLARATION, WHEREAS the Assignee is desirous of acquiring, or has acquired and is desirous of memorializing its acquisition further herein, my entire right, title and interest in the above-identified Application.

NOW, THEREFORE, for good and valuable consideration the receipt of which is hereby acknowledged, I agree to assign, and hereby do assign, to Assignee my entire right, title and interest in and to the Application in the United States of America and all other countries, including any and all inventions, discoveries and other subject matter described therein, any divisional, continuation, continuation-in-part, conversion, non-provisional, substitute, reissue, re-examination certificate following Inter Partes Review, certificate following Post Grant Review, all other applications claiming priority to or benefit of the Application pursuant to any law or treaty, and any patent issuing from any of the foregoing. I agree to assign, and hereby do assign, to Assignee the right to claim such priority or benefit. I have not previously conveyed, nor am I aware of an obligation to convey, my rights in the Application to a third party. I hereby authorize the U.S. Patent and Trademark Office, and any other governmental agency in the world, to issue to Assignee all patents resulting from the Application and to record Assignee's ownership thereof. At Assignee's reasonable request I agree, without further remuneration, to execute and deliver documents prepared at Assignee's expense and to provide other cooperation, such as testimony, as may be reasonably required to evidence or protect Assignee's rights in the Application. Assignee may assign or transfer all or part of its rights set forth herein in its sole discretion. I agree that the Assignee may affix its signature to this document as well as any other indicia of its acceptance of the provisions hereof. If any provision herein is unenforceable, the requirements of the provision shall remain to the full extent permissible by law and the offending portions thereof shall be deemed replaced, to the extent possible, with a provision most closely reflecting the purpose of the offending provision.

I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application No. 62/319,460, filed April 7, 2016, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 62/319,460 pursuant to any law or treaty in the countries of the world.

29 Aug 2017 (Date)

Dan Boljonis

WARNING

According to 37 C.F.R. 1.63 (c), "[a] person may not execute an oath or declaration unless the person has reviewed and understands the contents of the application, including claims and is aware of the duty to disclose to the Office all information known to be material to patentability as defined in 1.56."

State of New Jersey ) SS:

County of Bergen )

On this 29 of Aug, 2017 before me personally came above-named Dan Boljonis, 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 his/her own free will for the purposes therein set forth.

Notary Public Ashley M. Salerno, Notary Public of New Jersey, My Commission Expires 7/31/2018

An Application Data Sheet (PTO/SB/14 or Equivalent) naming the entire inventiveness entity must accompany this form unless previously submitted.

COMBINED DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION (37 CFR 1.63) USING AN APPLICATION DATA SHEET

Attorney, Docket No. SPINE 3.0F-624
Title of the Invention ("Invention") SURGICAL INSERTION INSTRUMENTS
Legal Name of Inventor ("Inventor") Collin Desens
Assignee ("Assignee") Howmedica Osteonics Corp., incorporated in, New Jersey, and having a place of business at 325 Corporate Drive; Mahwah, New Jersey 07430

DECLARATION

As named inventor, I hereby declare that:

This declaration is directed to:

[ ] The attached Application

OR

[x] United States Application Number or PCT International Application Number 15/480,781 filed on April 6, 2017

that the above-identified Application is/was made or authorized to be made by me;

that I believe I am the original inventor or an original joint inventor of a claimed invention in the above-identified Application; and

that I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

ASSIGNMENT

IN ADDITION TO MAKING THIS DECLARATION, WHEREAS the Assignee is desirous of acquiring, or has acquired and is desirous of memorializing its acquisition further herein, my entire right, title and interest in the above-identified Application.

NOW, THEREFORE, for good and valuable consideration the receipt of which is hereby acknowledged, I agree to assign, and hereby do assign, to Assignee my entire right, title and interest in and to the Application in the United States of America and all other countries, including any and all inventions, discoveries and other subject matter described therein, any divisional, continuation, continuation-in-part, conversion, non-provisional, substitute, reissue, re-examination certificate following Inter Partes Review, certificate following Post Grant Review, all other applications claiming priority to or benefit of the Application pursuant to any law or treaty, and any patent issuing from any of the foregoing. I agree to assign, and hereby do assign, to Assignee the right to claim such priority or benefit. I have not previously conveyed, nor am I aware of an obligation to convey, my rights in the Application to a third party. I hereby authorize the U.S. Patent and Trademark Office, and any other governmental agency in the world, to issue to Assignee all patents resulting from the Application and to record Assignee's ownership thereof. At Assignee's reasonable request I agree, without further remuneration, to execute and deliver documents prepared at Assignee's expense and to provide other cooperation, such as testimony, as may be reasonably required to evidence or protect Assignee's rights in the Application. Assignee may assign or transfer all or part of its rights set forth herein in its sole discretion. I agree that the Assignee may affix its signature to this document as well as any other indicia of its acceptance of the provisions hereof. If any provision herein is unenforceable, the requirements of the provision shall remain to the full extent permissible by law and the offending portions thereof shall be deemed replaced, to the extent possible, with a provision most closely reflecting the purpose of the offending provision.

I, as assignor, hereby assign to said assignee all of my right, title and interest in United States Provisional Application No. 62/319,460, filed April 7, 2016, and in the invention disclosed thereto in all countries of the world including the right to claim priority or benefit of said Application No. 62/319,460 pursuant to any law or treaty in the countries of the world.

07/24/2017 (Date)

Collin Desens (Signature)

WARNING

According to 37 C.F.R. 1.63 (c), "[a] person may not execute an oath or declaration unless the person has reviewed and understands the contents of the application, including claims and is aware of the duty to disclose to the Office all information known to be material to patentability as defined in 1.56."

State of New Jersey ) SS:

County of Bergen )

On this 24 of July, 2017 before me personally came above-named Collin Desens, 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 his/her own free will for the purposes thereof.

MICHAEL ARAJ
NOTARY PUBLIC OF NEW JERSEY
I.D. # 50025075
My Commission Expires 10/19/2020

Notary Public

An Application Data Sheet (PTO/SB/14 or Equivalent) naming the entire inventiveness entity must accompany this form unless previously submitted.

PATENT

RECORDED: 10/12/2017

REEL: 043851 FRAME: 0419