503872722 06/15/2016

PATENT ASSIGNMENT COVER SHEET

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

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------|----------------|
| MARIA PETTERSSON | 05/05/2014 |
| HÅKAN ENGQVIST | 05/06/2014 |
| JOHANNA OLOFSSON | 05/05/2014 |
| LARS HULTMAN | 05/05/2014 |

RECEIVING PARTY DATA

| Name: | IHI IONBOND AG | |
|-----------------|----------------------|--|
| Street Address: | INDUSTRIESTRASSE 211 | |
| City: | OLTEN | |
| State/Country: | SWITZERLAND | |
| Postal Code: | 4600 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15183080 |

CORRESPONDENCE DATA

Fax Number: (248)647-5200

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: 248-647-6000

Email: sherry.wade@dinsmore.com **DINSMORE & SHOHL LLP Correspondent Name:**

900 WILSHIRE DRIVE, SUITE 300 Address Line 1:

Address Line 4: TROY, MICHIGAN 48084

| ATTORNEY DOCKET NUMBER: | HOF-10103/16 207154-6 |
|-------------------------|-----------------------|
| NAME OF SUBMITTER: | RONALD W. CITKOWSKI |
| SIGNATURE: | /Ronald W. Citkowski/ |
| DATE SIGNED: | 06/15/2016 |

Total Attachments: 12

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ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made this 5th day of 1000, 2014, by Maria Pettersson; Håkan Engqvist; Johanna Olofsson; and Lars Hultman (hereinafter referred to as Assignors), residing at Blodstensvägen, S-752 58 Uppsala, SWEDEN; Källörsgatan 6, S-742 36 Östhammar, SWEDEN; Ärstagatan 21A, S-s-754 34 Uppsala, SWEDEN; and Uvebergsvägen, S-589 31 Linköping, SWEDEN, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in IMPLANTS WITH WEAR RESISTANT COATINGS AND METHODS, set forth in a Utility application for which an International Application was filed on August 30, 2012, PCT/IB2012/054471, designating the United States 14/239,384, filed February 18, 2014; and

WHEREAS, IHI Ionbond AG, an Enterprise organized under and pursuant to the laws of Switzerland having its principal place of business at Industriestrasse 211, 4600 Olten, SWITZERLAND (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or

1

Attorney Docket No: HOF-10102/16 Client's Reference: 170 813 aa/mmi

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AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent abovementioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Utility application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

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Attorney Docket No: HOF-10102/16 Client's Reference: 170 813 aa/mmi

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AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

GIFFORD, KRASS, SPRINKLE, ANDERSON & CITKOWSKI, P.C.

All practitioners at Customer Number 25006

| AND Assignors acknowle | edge an obliga | ation of assignment of this invention to Assignee |
|-------------------------------------|----------------|---|
| at the time the invention was made. | _ | 1 1 |
| Date: 5th of May 2014 | Signature: | Maria Pettersson |
| Date: | Signature: | Håkan Engqvist |
| Date: | Signature: | Johanna Olofsson |
| Date: | Signature: | Lars Hultman |

WP

Attorney Docket No: HOF-10102/16 Client's Reference: 170 813 aa/mmi

170 813 aa/mmi

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made this 6 day of 42, 2014, by Maria Pettersson; Håkan Engqvist; Johanna Olofsson; and Lars Hultman (hereinafter referred to as Assignors), residing at Blodstensvägen, S-752 58 Uppsala, SWEDEN; Källörsgatan 6, S-742 36 Östhammar, SWEDEN; Ärstagatan 21A, S-s-754 34 Uppsala, SWEDEN; and Uvebergsvägen, S-589 31 Linköping, SWEDEN, respectively;

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2

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All practitioners at Customer Number 25006

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

| Date: | | Signature: | |
|-------|--------------------------------------|------------|------------------|
| | | | Maria Pettersson |
| Date: | 2014-05-06 | Signature: | 16 C |
| | | * | Håkan Engqvist |
| | | | |
| Date: | ************************************ | Signature: | |
| | | | Johanna Olofsson |
| | | | |
| Date: | | Signature: | |
| | | • | Lars Hultman |

Attorney Docket No: HOF-10102/16 Client's Reference: 170 813 aa/mmi

ASSIGNMENT BY INVENTORS

Pettersson: Håkan Engqvist; Johanna Olofsson; and Lars Hultman (hereinafter referred to as Assignors), residing at Blodstensvägen, S-752 58 Uppsala, SWEDEN; Källörsgatan 6, S-742 36 Östhammar, SWEDEN; Ärstagatan 21A, S-s-754 34 Uppsala, SWEDEN; and Uvcbergsvägen, S-589 31 Linköping, SWEDEN, respectively;

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Attorney Docket No. HOF-10102/15 Client's Reference: 170 813 ag/mmi

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Attorney Docket No: HOF-10102/16 Chent's Reference: 170 813 aa/mmi

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All practitioners at Customer Number 25006

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

| Date: | Signature: Maria Pettersson |
|------------------|-------------------------------------|
| Date: | Signature: Hâkan Engqvist |
| Date: 2014-05-05 | Signature: Ann Mr. Johanna Olofsson |
| Date: | Signature: Lars Hultman |

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Attorney Docket No: HOF-10102/16 Client's Reference: 170 813 aa/mmi

170 813 aa/mmi

ASSIGNMENT BY INVENTORS

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|--|
| THIS ASSIGNMENT, made this 5 day of MAY, 2014, by Maria |
| Pettersson; Håkan Engqvist; Johanna Olofsson; and Lars Hultman (hereinafter referred to as |
| Assignors), residing at Blodstensvägen, S-752 58 Uppsala, SWEDEN; Källörsgatan 6, S-742 36 |
| Östhammar, SWEDEN; Ärstagatan 21A, S-s-754 34 Uppsala, SWEDEN; and Uvebergsvägen, S- |
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| Date: | Signature: | |
|-------------------|------------|------------------|
| | | Maria Pettersson |
| Date: | Signature: | |
| | | Håkan Engqvist |
| | | |
| Date: | Signature: | |
| | | Johanna Olofsson |
| Date: 5-MAY- 2014 | Signature: | has the three |
| | | Lars Hultman |

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Attorney Docket No: HOF-10102/16 Client's Reference: 170 813 aa/mmi

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