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| <b>PATENT ASSIGNMENT COVER SHEET</b> |
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5631176

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| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                          |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                              |
| <b>CONVEYING PARTY DATA</b>   |   |
| <b>Name</b>   | <b>Execution Date</b>                   |
| PASCAL KOPPERSCHMIDT  | 07/15/2019                              |
| PIA DANIEL  | 07/01/2019                              |
| REINER SPICKERMANN  | 07/08/2019                              |
| OTTO ARKOSSY  | 06/25/2019                              |
| CACILIA SCHOLZ  | 07/08/2019                              |
| KAI-UWE RITTER  | 06/25/2019                              |
| ELKE SCHULTE  | 07/09/2019                              |
| CHRISTOPHER HAUKE   | 06/25/2019                              |
| <b>RECEIVING PARTY DATA</b>   |   |
| <b>Name:</b>  | FRESENIUS MEDICAL CARE DEUTSCHLAND GMBH |
| <b>Street Address:</b>  | ELSE-KRONER-STR. 1                      |
| <b>City:</b>  | BAD HOMBURG                             |
| <b>State/Country:</b>   | GERMANY                                 |
| <b>Postal Code:</b>   | 61352                                   |
| <b>PROPERTY NUMBERS Total: 1</b>  |   |
| <b>Property Type</b>  | <b>Number</b>                           |
| <b>Application Number:</b>  | 16479941                                |
| <b>CORRESPONDENCE DATA</b>  |   |
| <b>Fax Number:</b>  | (540)428-1720                           |
| <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>   | 5404281701                              |
| <b>Email:</b>   | lkilyk@kbpattentlaw.com                 |
| <b>Correspondent Name:</b>  | LUKE A. KILYK                           |
| <b>Address Line 1:</b>  | 400 HOLIDAY COURT, SUITE 102            |
| <b>Address Line 2:</b>  | KILYK & BOWERSOX, P.L.L.C.              |
| <b>Address Line 4:</b>  | WARRENTON, VIRGINIA 20186               |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 3063-090                                |
| <b>NAME OF SUBMITTER:</b>   | LUKE A. KILYK                           |
| <b>SIGNATURE:</b>   | /luke a kilyk/                          |

PATENT

**DATE SIGNED:**

07/23/2019

**Total Attachments: 21**

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**ASSIGNMENT**

(Worldwide Rights)

**WHEREAS WE/I**, the below named inventor(s) [hereinafter referred to as Assignor(s)], have made an invention entitled:

**Gripper Apparatus For Cannulas**

for which We/I filed an application on January 29, 2018, as International Patent Application No. PCT/EP2018/052116.

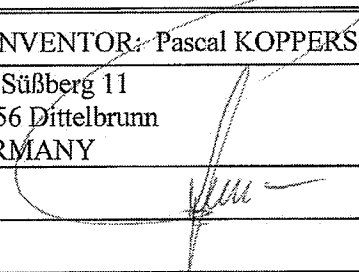
**WHEREAS, FRESINIUS MEDICAL CARE DEUTSCHLAND GMBH** (Full Name of Assignee), a corporation of Germany (State or Country of Incorporation), whose post office address is Else-Kröner-Str. 1, 61352 Bad Homburg GERMANY (hereby referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

**NOW THEREFORE**, be it known that for good and valuable consideration the receipt of which from assignee is hereby acknowledged, We/I, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention and this application, any applications claiming priority or benefit to this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and We/I hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

**AND, WE/I HEREBY** covenant that We/I have the full right to convey the interest assigned by this Assignment, and We/I have not executed and will not execute any agreement in conflict with this Assignment;

**AND, WE/I HEREBY** further covenant and agree that We/I will, without further consideration, communicate with assignee, its successors and assigns, any facts known to us/me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

**IN TESTIMONY WHEREOF**, We/I have hereunto set our hands.

|   |   |
|---|---|
| FULL NAME OF INVENTOR: Pascal KOPPERSCHMIDT |   |
| Address:                                    | Am Stußberg 11<br>97456 Dittelbrunn<br>GERMANY                                      |
| Signature:                                  |  |
| Date:                                       | July 15 / 2019  |

**ASSIGNMENT**

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| Address:                                    | Am Süßberg 11<br>97456 Dittelbrunn<br>GERMANY |
| Signature:                                  |   |
| Date:                                       |   |

|   |   |
|---|---|
| FULL NAME OF INVENTOR: Pia DANIEL         |   |
| Address:                                  | Friedhofstrasse 8a<br>78351 Bodman<br>GERMANY                                     |
| Signature:                                |  |
| Date:                                     | 2019/10/10  |
| FULL NAME OF INVENTOR: Reiner SPICKERMANN |   |
| Address:                                  | Am Eulenberg 7<br>97535 Wasserlosen-Burghausen<br>GERMANY                         |
| Signature:                                |   |
| Date:                                     |   |
| FULL NAME OF INVENTOR: Otto ARKOSSY       |   |
| Address:                                  | Louisenstr. 117<br>61348 Bad Homburg<br>GERMANY                                   |
| Signature:                                |   |
| Date:                                     |   |
| FULL NAME OF INVENTOR: Cäcilia SCHOLZ     |   |
| Address:                                  | Fasanenweg 26<br>65824 Schwalbach<br>GERMANY                                      |
| Signature:                                |   |
| Date:                                     |   |
| FULL NAME OF INVENTOR: Kai-Uwe RITTER     |   |
| Address:                                  | An der Maisenlach 59 b<br>91126 Rednitz-Hembach<br>GERMANY                        |
| Signature:                                |   |
| Date:                                     |   |

Docket No. 3063-090

|  |   |
|--|---|
| FULL NAME OF INVENTOR: Elke SCHULTE      |   |
| Address:                                 | An der Eselshöhe 53<br>97422 Schweinfurt<br>GERMANY   |
| Signature:                               |   |
| Date:                                    |   |
| FULL NAME OF INVENTOR: Christopher HAUKE |   |
| Address:                                 | Viktoriastrasse 16<br>55246 Mainz-Kostheim<br>GERMANY |
| Signature:                               |   |
| Date:                                    |   |

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(Worldwide Rights)

WHEREAS WE/I, the below named inventor(s) [hereinafter referred to as Assignor(s)], have made an invention entitled:

**Gripper Apparatus For Cannulas**

for which We/I filed an application on January 29, 2018, as International Patent Application No. PCT/EP2018/052116.

WHEREAS, FRESENIUS MEDICAL CARE DEUTSCHLAND GMBH (Full Name of Assignee), a corporation of Germany (State or Country of Incorporation), whose post office address is Else-Kröner-Str. 1, 61352 Bad Homburg GERMANY (hereby referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

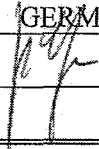
NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from assignee is hereby acknowledged, We/I, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention and this application, any applications claiming priority or benefit to this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and We/I hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE/I HEREBY covenant that We/I have the full right to convey the interest assigned by this Assignment, and We/I have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE/I HEREBY further covenant and agree that We/I will, without further consideration, communicate with assignee, its successors and assigns, any facts known to us/me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

IN TESTIMONY WHEREOF, We/I have hereunto set our hands.

|   |   |
|---|---|
| FULL NAME OF INVENTOR: Pascal KOPPERSCHMIDT |   |
| Address:                                    | Am Süßberg 11<br>97456 Dittelbrunn<br>GERMANY |
| Signature:                                  |   |
| Date:                                       |   |

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|---|---|
| FULL NAME OF INVENTOR: Pia DANIEL         |   |
| Address:                                  | Friedhofstrasse 8a<br>78351 Bodman<br>GERMANY                                     |
| Signature:                                |   |
| Date:                                     |   |
| FULL NAME OF INVENTOR: Reiner SPICKERMANN |   |
| Address:                                  | Am Eulenberg 7<br>97535 Wasserlosen-Burghausen<br>GERMANY                         |
| Signature:                                |  |
| Date:                                     | July 8th, 2019  |
| FULL NAME OF INVENTOR: Otto ARKOSSY       |   |
| Address:                                  | Louisenstr. 117<br>61348 Bad Homburg<br>GERMANY                                   |
| Signature:                                |   |
| Date:                                     |   |
| FULL NAME OF INVENTOR: Cäcilia SCHOLZ     |   |
| Address:                                  | Fasanenweg 26<br>65824 Schwalbach<br>GERMANY                                      |
| Signature:                                |   |
| Date:                                     |   |
| FULL NAME OF INVENTOR: Kai-Uwe RITTER     |   |
| Address:                                  | An der Maisenlach 59 b<br>91126 Rednitz-Hembach<br>GERMANY                        |
| Signature:                                |   |
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Docket No. 3063-090

|  |   |
|--|---|
| FULL NAME OF INVENTOR: Elke SCHULTE      |   |
| Address:                                 | An der Eselshöhe 53<br>97422 Schweinfurt<br>GERMANY   |
| Signature:                               |   |
| Date:                                    |   |
| FULL NAME OF INVENTOR: Christopher HAUKE |   |
| Address:                                 | Viktoriastrasse 16<br>55246 Mainz-Kostheim<br>GERMANY |
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| Date:                                     |  |
| FULL NAME OF INVENTOR: Otto ARKOSSY       |  |
| Address:                                  | Louisenstr. 117<br>61348 Bad Homburg<br>GERMANY            |
| Signature:                                | <i>Otto Arkossy</i>  |
| Date:                                     | <i>25. 06. 2019</i>  |
| FULL NAME OF INVENTOR: Cäcilia SCHOLZ     |  |
| Address:                                  | Fasanenweg 26<br>65824 Schwalbach<br>GERMANY               |
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| Address:                                  | Louisenstr. 117<br>61348 Bad Homburg<br>GERMANY            |
| Signature:                                |  |
| Date:                                     |  |
| FULL NAME OF INVENTOR: Cäcilia SCHOLZ     |  |
| Address:                                  | Fasanenweg 26<br>65824 Schwalbach<br>GERMANY               |
| Signature:                                | <i>Cäcilia Scholz</i>                                      |
| Date:                                     | <i>8 July 2009</i>   |
| FULL NAME OF INVENTOR: Kai-Uwe RITTER     |  |
| Address:                                  | An der Maisenlach 59 b<br>91126 Rednitz-Hembach<br>GERMANY |
| Signature:                                |  |
| Date:                                     |  |

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| Signature:                               |   |
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| Address:                                 | Viktoriastrasse 16<br>55246 Mainz-Kostheim<br>GERMANY |
| Signature:                               |   |
| Date:                                    |   |

Docket No. 3063-090

SOLE/JOINT INVENTION

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for which We/I filed an application on January 29, 2018, as International Patent Application No. PCT/EP2018/052116.

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NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from assignee is hereby acknowledged, We/I, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention and this application, any applications claiming priority or benefit to this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all renewals thereof, and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and We/I hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment.

AND, WE/I HEREBY covenant that We/I have the full right to convey the interest assigned by this Assignment, and We/I have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE/I HEREBY further covenant and agree that We/I will, without further consideration, communicate with assignee, its successors and assigns, any facts known to us/me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

IN TESTIMONY WHEREOF, We/I have hereunto set our hands.


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| FULL NAME OF INVENTOR: Pascal KOPPERSCHMIDT            |
| Address: Am Süßberg 11<br>97456 Dittelbrunn<br>GERMANY |
| Signature:   |
| Date:  |

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| FULL NAME OF INVENTOR: Pia DANIEL                      |
| Address: Friedhofstrasse 8a<br>78351 Bodman<br>GERMANY |
| Signature:   |
| Date:  |

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| FULL NAME OF INVENTOR: Reiner SPICKERMANN                          |
| Address: Am Eulenberg 7<br>97535 Wasserlosen-Burghausen<br>GERMANY |
| Signature:   |
| Date:  |

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| FULL NAME OF INVENTOR: Otto ARKOSSY                      |
| Address: Louisenstr. 117<br>61348 Bad Homburg<br>GERMANY |
| Signature:   |



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| Date:  |
| FULL NAME OF INVENTOR: Cecilia SCHOLZ  |
| Address: Fasanenweg 26<br>65824 Schwalbach<br>GERMANY  |
| Signature:   |
| Date:  |
| FULL NAME OF INVENTOR: Kai-Uwe RITTER  |
| Address: An der Maisenlach 59 b<br>91126 Rednitz-Hembach<br>GERMANY                          |
| Signature:  |
| Date: 2019-06-25   |

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| FULL NAME OF INVENTOR: Elke SCHULTE                            |
| Address: An der Eiseishöhe 53<br>97422 Schweinfurt<br>GERMANY  |
| Signature:   |
| Date:  |
| FULL NAME OF INVENTOR: Christopher HAUKE                       |
| Address: Viktoriastrasse 16<br>55246 Mainz-Kostheim<br>GERMANY |
| Signature:   |
| Date:  |

**ASSIGNMENT**

(Worldwide Rights)

WHEREAS WE/I, the below named inventor(s) [hereinafter referred to as Assignor(s)], have made an invention entitled:

**Gripper Apparatus For Cannulas**

for which We/I filed an application on January 29, 2018, as International Patent Application No. PCT/EP2018/052116.

WHEREAS, FRESINIUS MEDICAL CARE DEUTSCHLAND GMBH (Full Name of Assignee), a corporation of Germany (State or Country of Incorporation), whose post office address is Eise-Kröner-Str. 1, 61352 Bad Homburg GERMANY (hereby referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

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AND, WE/I HEREBY further covenant and agree that We/I will, without further consideration, communicate with assignee, its successors and assigns, any facts known to us/me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

IN TESTIMONY WHEREOF, We/I have hereunto set our hands.

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|---|---|
| FULL NAME OF INVENTOR: Pascal KOPPERSCHMIDT |   |
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| Signature:                                  |   |
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| FULL NAME OF INVENTOR: Pia DANIEL         |  |
| Address:                                  | Friedhofstrasse 8a<br>78351 Bodman<br>GERMANY              |
| Signature:                                |  |
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| FULL NAME OF INVENTOR: Reiner SPICKERMANN |  |
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| Signature:                                |  |
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| FULL NAME OF INVENTOR: Otto ARKOSSY       |  |
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| Signature:                                |  |
| Date:                                     |  |
| FULL NAME OF INVENTOR: Cäcilia SCHOLZ     |  |
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| Date:                                     |  |
| FULL NAME OF INVENTOR: Kai-Uwe RITTER     |  |
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| Signature:                                |  |
| Date:                                     |  |

Docket No. 3063-090

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|--|---|
| FULL NAME OF INVENTOR: Elke SCHULTE      |   |
| Address:                                 | An der Eselshöhe 53<br>97422 Schweinfurt<br>GERMANY   |
| Signature:                               | <i>E. Schulte</i>                                     |
| Date:                                    | <i>9.7.2019</i>                                       |
| FULL NAME OF INVENTOR: Christopher HAUKE |   |
| Address:                                 | Viktoriastrasse 16<br>55246 Mainz-Kostheim<br>GERMANY |
| Signature:                               |   |
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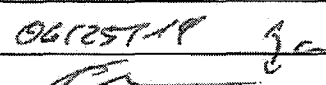

IN TESTIMONY WHEREOF, We/I have hereunto set our hands.

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| FULL NAME OF INVENTOR: Pascal KOPPERSCHMIDT |   |
| Address:                                    | Am Süßberg 11<br>97456 Dittelbrunn<br>GERMANY |
| Signature:                                  |   |
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Confidential

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| FULL NAME OF INVENTOR: Pia DANIEL         |  |
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| Signature:                                |  |
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| FULL NAME OF INVENTOR: Reiner SPICKERMANN |  |
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| FULL NAME OF INVENTOR: Christopher HAUKE |   |
| Address:                                 | Viktoriastrasse 16<br>55246 Mainz-Kostheim<br>GERMANY   |
| Signature:                               | <i>06/25/19</i>  |
| Date:                                    |                  |

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