503394399 07/16/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3441024

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

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------|----------------|
| STEPHEN MERCHANT | 06/08/2015 |

RECEIVING PARTY DATA

| Name: | FRESENIUS MEDICAL CARE HOLDINGS, INC. |
|-----------------|---------------------------------------|
| Street Address: | 920 WINTER STREET |
| City: | WALTHAM |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 02451 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14723493 |

CORRESPONDENCE DATA

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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| ATTORNEY DOCKET NUMBER: | 3192-054-01 |
|-------------------------|----------------|
| NAME OF SUBMITTER: | LUKE A. KILYK |
| SIGNATURE: | /luke a kilyk/ |
| DATE SIGNED: | 07/16/2015 |

Total Attachments: 2

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PATENT 503394399 REEL: 036106 FRAME: 0625

SOLE/JOINT INVENTION

ASSIGNMENT

(Worldwide Rights)

WHEREAS We, the below named inventors [hereinafter referred to as Assignors], have made an invention entitled:

Method For Treating Dialysate, Dialysis System, And Method For Pre-Evaluating Dialysis Patients For Treatment With Same

for which We filed an application for United States Letters patent on May 28, 2015, as U.S. Patent Application No. 14/723,493 and

WHEREAS, <u>Fresenius Medical Care Holdings</u>, <u>Inc.</u> (Full Name of Assignee), a corporation of <u>New York</u>, (State or Country of Incorporation) whose post office address is <u>920 Winter Street</u>, <u>Waltham</u>, <u>Massachusetts 02451</u> (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, as assignors, 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 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 HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that We will, without further consideration, communicate with assignee, its successors and assigns, any facts known to us 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.

SS.

IN TESTIMONY WHEREOF, We have hereunto set our hands.

| County of OKLAHOMA |
|--|
| State of OKLAHOMA |
| Subscribed and sworn to before me this 8 day |
| of JUNE, 2015. |
| Maria Sunde Notary Public |
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Docket No. 3192-054-01 FMC No.150002US01

FULL NAME OF FIRST INVENTOR: Stephen MERCHANT

Address: c/o Fresenius Medical Care North America

920 Winter Street, Waltham, MA 02451

Signature:

Date:

6/8/15

PATENT REEL: 036106 FRAME: 0627

RECORDED: 07/16/2015