

## PATENT ASSIGNMENT

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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>Jochen G. Raimann</td> <td>02/10/2012</td> </tr> <tr> <td>Erik Lars Penne</td> <td>02/10/2012</td> </tr> <tr> <td>Stephan Thijssen</td> <td>02/14/2012</td> </tr> <tr> <td>Peter Kotanko</td> <td>02/10/2012</td> </tr> <tr> <td>Nathan W. Levin</td> <td>02/10/2012</td> </tr> </tbody> </table>		Name	Execution Date	Jochen G. Raimann	02/10/2012	Erik Lars Penne	02/10/2012	Stephan Thijssen	02/14/2012	Peter Kotanko	02/10/2012	Nathan W. Levin	02/10/2012
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Nathan W. Levin	02/10/2012												
RECEIVING PARTY DATA													
Name:	Fresenius Medical Care Holdings, Inc.												
Street Address:	920 Winter Street												
City:	Waltham												
State/Country:	MASSACHUSETTS												
Postal Code:	02451-1457												
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>12896009</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12896009								
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Application Number:	12896009												
CORRESPONDENCE DATA													
Fax Number:	(978)341-0136												
Phone:	978-341-0036												
Email:	cmedeiros@hbsr.com												
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>													
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ATTORNEY DOCKET NUMBER:	3806.1019-003												
NAME OF SUBMITTER:	Catherine Medeiros												

CH \$40.00 12896009

**Total Attachments: 5**

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JointASSIGNMENT

WHEREAS, we, **Jochen G. Raimann, Erik Lars Penne, Stephan Thijssen, Peter Kotanko and Nathan W. Levin**, have invented a certain improvement in **Method of Controlling Diffusive Sodium Transport in Dialysis** described in an application for Patent,

- the specification of which is about to be filed in the United States Patent Office (*use for utility (37 CFR § 1.53(b)) and design filings only*);
- is about to be filed in the United States Patent Office as a Provisional Application;
- the specification of which is United States Application No. 12/896,009, filed October 1, 2010;
- the specification of which is a Patent Cooperation Treaty Application, International Application No. [    ], filed [    ], which designates the United States of America [and is assigned United States Application No. [    ]];
- which was patented under United States Patent No. [    ].

WHEREAS, **Fresenius Medical Care Holdings, Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of New York**, and having a usual place of business at **920 Winter Street, Waltham, Massachusetts 02451-1457** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; we hereby expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: J. Raimann  
Jochen G. Raimann

State/Commonwealth  
of New York  
County of New York

On this 10 day of February 2012, before me, the undersigned notary public, personally appeared Jochen G. Raimann,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

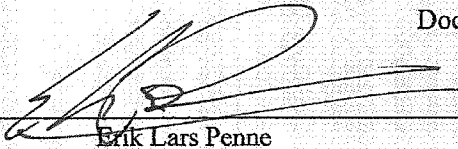
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public \_\_\_\_\_

**PENNY PALMIERO**  
Notary Public, State of New York  
No. 01PA6092249  
My Commission expires Qualified in Queens County  
**Commission Expires May 12, 2013**

*Penny Palmiero*

Inventor's Signature:   
Erik Lars Penne

State/Commonwealth  
of NORTH HOLLAND  
County of the Netherlands

On this 10 day of February, 2012, before me, the undersigned notary public, personally appeared Erik Lars Penne,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public \_\_\_\_\_  
 PENNY PALMIERO  
 Notary Public, State of New York  
 No. 01PA6092249  
 Qualified in/ Queens County  
 My Commission expires May 12, 2012  
*Penny Palmiero*

Inventor's Signature: \_\_\_\_\_  
Stephan Thijssen

State/Commonwealth  
of \_\_\_\_\_  
County of \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, the undersigned notary public, personally appeared Stephan Thijssen,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public \_\_\_\_\_  
 \_\_\_\_\_ (print name)  
 My Commission expires \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Inventor's Signature: \_\_\_\_\_  
Erik Lars Penne

State/Commonwealth  
of New York  
County of New York

On this 14 day of February 2012, before me, the undersigned notary public, personally appeared Erik Lars Penne,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public \_\_\_\_\_

**PENNY PALMIERO**  
Notary Public, State of New York  
No. 01PA6092249  
Qualified in Queens County  
Commission Expires May 12, 2015

My Commission expires \_\_\_\_\_

Inventor's Signature: \_\_\_\_\_  
Stephan Thijssen

State/Commonwealth  
of New York New York  
County of New York New York

On this 14 day of February 2012, before me, the undersigned notary public, personally appeared Stephan Thijssen,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public \_\_\_\_\_

**PENNY PALMIERO**  
Notary Public, State of New York  
No. 01PA6092249  
Qualified in Queens County  
Commission Expires May 12, 2015

My Commission expires \_\_\_\_\_

*Penny Palmiero*

Inventor's Signature: *Peter Kotanko*

Peter Kotanko

State/Commonwealth of New York  
County of New York

On this 10 day of February 2012, before me, the undersigned notary public, personally appeared Peter Kotanko,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public

**PENNY PALMIERO**  
 Notary Public, State of New York  
 No. 01PA6092249  
 Qualified in Queens County  
 Commission Expires May 12, 2015

My Commission expires 1 1 15 *Penny Palmiero*

Inventor's Signature: *Nathan W. Levin*

Nathan W. Levin

State/Commonwealth of New York  
County of New York

On this 10 day of February 2012, before me, the undersigned notary public, personally appeared Nathan W. Levin,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

Notary Public

**PENNY PALMIERO**  
 Notary Public, State of New York  
 No. 01PA6092249  
 Qualified in Queens County  
 Commission Expires May 12, 2015

My Commission expires 1 1 15 *Penny Palmiero*



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