

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Wayne Ronald Raiford</td> <td>10/11/2012</td> </tr> <tr> <td>Sue-Jane Lee</td> <td>10/09/2012</td> </tr> <tr> <td>Martin Joseph Crnkovich</td> <td>11/20/2012</td> </tr> <tr> <td>Robert E. Hassard</td> <td>11/05/2012</td> </tr> </tbody> </table>		Name	Execution Date	Wayne Ronald Raiford	10/11/2012	Sue-Jane Lee	10/09/2012	Martin Joseph Crnkovich	11/20/2012	Robert E. Hassard	11/05/2012
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Fresenius Medical Care Holdings, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>920 Winter Street</td> </tr> <tr> <td>City:</td> <td>Waltham</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>02451-1457</td> </tr> </table>		Name:	Fresenius Medical Care Holdings, Inc.	Street Address:	920 Winter Street	City:	Waltham	State/Country:	MASSACHUSETTS	Postal Code:	02451-1457
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number: 8777697945 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: (617) 542-5070 Email: apsi@fr.com Correspondent Name: Jeffrey D. Weber Address Line 1: FISH & RICHARDSON P.C. Address Line 2: P.O.BOX 1022 Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022</p>											
ATTORNEY DOCKET NUMBER:	18196-0162001										
NAME OF SUBMITTER:	Matthew G. Doherty										
Total Attachments: 5											

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ASSIGNMENT

For valuable consideration, we, Wayne Ronald Raiford, of 112 Auden Street, Vallejo, CA 94591-5715; Sue-Jane Lee, of 45720 Tuscany Court, Fremont, CA 94539, Martin Joseph Crnkovich, of 3436 Cassena Drive, Walnut Creek, CA 94598; and Robert E. Hassard, of 1620 Shirley Drive, Benicia, CA 94510; hereby assign to FRESENIUS MEDICAL CARE HOLDINGS, INC., a corporation of New York, having a place of business at 920 Winter St., Waltham, MA 02451-1457, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled METHODS OF MAKING MEDICAL SOLUTIONS AND RELATED SYSTEMS, filed September 28, 2012 , and assigned U.S. Serial Number 13/630,123 , this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Wayne Ronald Raiford
Wayne Ronald Raiford

10-11-12
Date

Acknowledgment

State of California

County of Contra Costa

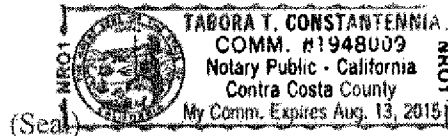
On October 11, 2012 before me, Tabora T. Constantennia, Notary Public
(insert name and title of the officer)

personally appeared Wayne Ronald Raiford who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Tabora T. Constantennia



Sue-Jane Lee
Sue-Jane Lee

10/9/2012
Date

Acknowledgment

State of California

County of Contra Costa

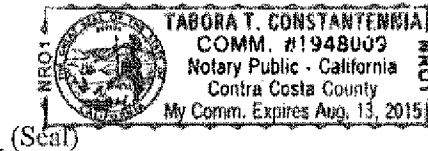
On October 9th, 2012 before me, Tabora T. Constantenina, Notary Public
(insert name and title of the officer)

personally appeared Sue-Jane Lee who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is/are~~ subscribed to the within instrument and acknowledged to me that he/~~she~~/they executed the same in his/~~her~~/their authorized capacity(ies), and that by his/~~her~~/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Tabora T. Constantenina



Martin Joseph Crnkovich
Martin Joseph Crnkovich

11/20/2012
Date

Acknowledgment

State of California

County of Contra Costa

On November, 2012, before me, Tabora T. Constantennia, Notary Public,
(insert name and title of the officer)

personally appeared Martin Joseph Crnkovich who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

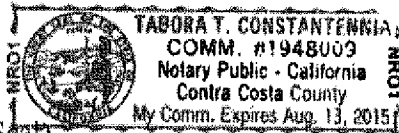
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Tabora T. Constantennia

(Seal)




Robert E. Hassard

8/11/5/12
10/5/12 11/5/12
Date

Acknowledgment

State of California

County of Contra Costa

On November 5th, 2012 before me, Tabora T. Constantennia, Notary Public,
(insert name and title of the officer)

personally appeared Robert E. Hassard who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature 



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