Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MICHAEL E. HOGARD	01/02/2008
DONALD D. BUSBY	01/02/2008
ROBERT W. CHILDERS	12/18/2007
YUANPANG S. DING	01/08/2008
KATHERINE M. HOLIAN	11/15/2007
MARK E. JABLONSKI	11/15/2007
THOMAS D. KELLY	11/09/2007
YING-CHENG LO	01/08/2008
SHINCY J. MALIEKKAL	01/08/2008
RODOLFO G. ROGER	12/27/2007
DONALD A. SMITH	11/07/2007
ATIF M. YARDIMCI	11/06/2007

RECEIVING PARTY DATA

Name:	BAXTER INTERNATIONAL INC.	
Street Address:	One Baxter Parkway	
City:	Deerfield	
State/Country:	ILLINOIS	
Postal Code:	60015-4633	

Name:	BAXTER HEALTHCARE S.A.	
Street Address:	HERTISTRASSE 2	
City:	WALLISELLEN, ZURICH	
State/Country: SWITZERLAND		
Postal Code:	CH-8304	

PROPERTY NUMBERS Total: 1

Property Type	Number
	DATENT

PATENT REEL: 020367 FRAME: 0421

500440134

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Application Number: 11938083

CORRESPONDENCE DATA

Fax Number: (847)948-3393

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 847-948-2000

Email: elizabeth_eich@baxter.com

Correspondent Name: Bradford R.L. Price/ Baxter Healthcare

Address Line 1: One Baxter Parkway

Address Line 4: Deerfield, ILLINOIS 60015-4633

ATTORNEY DOCKET NUMBER: SMDI-6397

NAME OF SUBMITTER: Elizabeth J. Eich

Total Attachments: 14

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PATENT

REEL: 020367 FRAME: 0422

Filed: 11-09-2007

Attorney Docket No. SMDI-6397 (112713-1739)

In consideration of good and valuable considerations, the receipt and sufficiency whereof are hereby acknowledged, we hereby assign to **BAXTER INTERNATIONAL INC.**, a corporation of Delaware, having a principal place of business at Deerfield, Illinois, its successors, legal representatives and assigns, and **BAXTER HEALTHCARE S.A.**, a corporation of Switzerland, having a principal place of business at Zurich, Switzerland, its successors, legal representatives and assigns (hereinafter jointly referred to as "assignee") the entire right, title and interest throughout the world in our invention or improvements in

BALANCED FLOW DIALYSIS MACHINE

and in the application for Letters Patent of the United States therefor, executed by each of us individually and any and all other United States applications and applications in any and all countries which we may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States or of any other country which may be obtained on any of the said applications, and in any reissue or extension thereof.

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WITNESS our hand and seal

Date Office Signature Del 21 Typed Name: Michael E. Hogard State of County of Pine 10 S Signed before me on this 2 day of Ton 2008	Date 01/02/08 Signature Bull Branch B
Notary Public My COMMISSION # DD569381	Notary Public RHONDA LYNN KOO MY COMMISSION # DD559381 EXPIRES: June 28, 2010
Date 12/18/200 Signature Pount W Childen Typed Name: Robert W. Childers State of Fl. County of Pine IIG S	Date Signature Typed Name: Yuanpang S. Ding State of, County of
Signed before me on this 18 day of Dec. , 2007 by Robert Childers Inventor	Signed before me on this day of, 200 by Inventor
Notary Public RHONDA LYNN KOO MY COMMISSION # DD569381 EXPIRES: June 28, 2010 (407) 398-0153 Florida Notary Service com	Notary Public

Serial No. 11/938,083	Filed: 11-09-2007	Attorney Doo	ket No. SMDI-6397 (112713-1739)
	BALANCED FLO	DW DIALYSIS MACHINE	
Date Signature			
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Name: Katherine M. Holian	stu of	Name: Mark E. Jablonski	Occuptoret
State of, Coun Signed before me on this day	of 200	Signed before me on this	, County of, 200
day	01, 200	Signed before the on this	day or, 200
by		bv	
Inventor		Inventor	
Notary Public		Notary Public	
Date Signature		Date Signature	
Typed		Typed	
Name: Thomas D. Kelly		Name: Ying-Cheng Lo	
State of, Count Signed before me on this day of	ty of	State of,	County of, 200
Signed before me on this day	of, 200	Signed before me on this	day of, 200
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y Inventor		byInventor	
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Date Signature		Data /2/27/07 Signatura	county of line las day of December, 2007
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ame: Shincy J. Maliekkal		Name: Rodolfo G. Roger	
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igned before me on this day o	of, 200	Signed before me on this 27	day of December, 200]
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/Inventor		by Kadalto G. Ko	Linda A. Lade
inventor		Inventor	Commission # DD3020
			Expires March 21, 200
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		Name: Atif M. Yardimci	
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tme: Donald A. Smith ate of, County gned before me on this day of	í, 200	Signed before me on this	day of, 200_
			,
		by	
Inventor	•	Inventor	····-
otary Public		Notary Public	



ASSIGNMENT (Joint Inventors)

Serial No. 11/938,083

Filed: 11-09-2007

Attorney Docket No. SMDI-6397 (112713-1739)

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BALANCED FLOW DIALYSIS MACHINE

and in the application for Letters Patent of the United States therefor, executed by each of us individually and any and all other United States applications and applications in any and all countries which we may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States or of any other country which may be obtained on any of the said applications, and in any reissue or extension thereof.

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WITNESS our hand and seal

Date	Signature	Date Signature
Typed	-	Typed
Name: Michael E. H	logard	Name: Donald D. Busby
State of	, County of	State of, County of
Signed before me or	, County of n this day of, 20	State of, County of, Signed before me on this day of, 200
by		by
1	nventor	Inventor
Notary Public		Notary Public
		,
		Date 1/8/2 201 Signature
Date S	Signature	
Typed		Typed /
Name: Robert W. Cl	hilders	Name: Yuanpang S. Ding
State of	, County of, this, 200	State of Illinois, County of Lake
Signed before me on	this, day of, 200	Signed before me on this 3th day of Sanuary, 200 8
		Name: Yuanpang S. Ding State of Illinois County of Lake Signed before me on this grad day of January, 2008 by Saw ing Ivanpany
by		by Jan Ding vangang
ir	14 C 8 B C 5	Inventor
	OFFICIAL SEAL ANNAMAPIE MACGILLIS NOTARY PUBLIC - STATE OF BLAKOS	June Machell
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PATENT

REEL: 020367 FRAME: 0425

Attorney Docket No. SMDI-6397 (112713-1739) Serial No. 11/938,083 Filed: 11-09-2007 **BALANCED FLOW DIALYSIS MACHINE** _____ Signature _ Date _____ Signature _____ Date Typed Typed Name: Katherine M. Holian Name: Mark E. Jablonski State of ______, County of ____ Signed before me on this _____ day of ____ __, County of ___ State of ___ Signed before me on this _____ day of ___ Inventor Notary Public Notary Public _____ Signature ___ Typed Typed Name: Ying-Cheng Lo Name: Thomas D. Kelly State of Thire's County of Late
Signed before me on this Briday of Janea _, County of _ State of __ 200__ Signed before me on this ____ day of ____ by _____ Inventor Notary Public Notary Public OFFICIAL SEAL ANNAMARIE MACGILLIS NOTARY PUBLIC - STATE OF ILLINOIS MY COMMISSION EXPIRES:03/01/08 Date 01-09-09 Signature Date __ Signature Typed Name: Shincy J. Maliekkal Name: Rodolfo G. Roger State of _____, County of ____ Signed before me on this ____ day of ____ State of ILLI 4015 Signed before me on this ______ Inventor Inventor Notary Public Notary Public Date _____ Signature _____ Date _____ Signature __ Typed Typed Name: Atif M. Yardimci Name: Donald A. Smith _, County of __ _, County of ___ State of State of _____ Signed before me on this _____ day of ____ Signed before me on this _____ day of ___ by ____ by __ Inventor Inventor Notary Public Notary Public



Filed: 11/09/2007

Attorney Docket No. SMDI_ (112713-1739)

In consideration of good and valuable considerations, the receipt and sufficiency whereof are hereby acknowledged, we hereby assign to **BAXTER INTERNATIONAL INC.**, a corporation of Delaware, having a principal place of business at Deerfield, Illinois, its successors, legal representatives and assigns, and **BAXTER HEALTHCARE S.A.**, a corporation of Switzerland, having a principal place of business at Zurich, Switzerland, its successors, legal representatives and assigns (hereinafter jointly referred to as "assignee") the entire right, title and interest throughout the world in our invention or improvements in

BALANCED FLOW DIALYSIS MACHINE

and in the application for Letters Patent of the United States therefor, executed by each of us individually and any and all other United States applications and applications in any and all countries which we may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States or of any other country which may be obtained on any of the said applications, and in any reissue or extension thereof.

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WITNESS our hand and seal

Date Signature	Date Signature
Typed	Typed
Name: Michael E. Hogard	Name: Donald D. Busby
State of, County of	State of, County of
Signed before me on this day of, 200	State of, County of, County of, 200
by	by
Inventor	Inventor
Notary Public	Notary Public
Date Signature	Date Signature
Typed	Typed
Name: Robert W. Childers	Name: Yuanpang Samual Ding
State of, County of	State of, County of
Signed before me on this day of, 200	Signed before me on this day of, 200
by	by
Inventor	Inventor
Notary Public	Notary Public

Attorney Docket No. SMDI (112713-1739) Serial No. 11/938,083 Filed: 11/09/2007 6397 **BALANCED FLOW DIALYSIS MACHINE** Date 11/15/07 Signature Katheine Ul Holian Date Signature Typed Typed Name: Katherine M. Holian Name: Mark E. Jablonski State of IL County of Dupage State of ______, County of _____ Signed before me on this 15 day of 1Signed before me on this _____ day of _____, 200 OFFICIAL SEAL Notary Public - State of Minols Invent My Commission Expires Jan 17, 2010 **Public** Notary Public Date _____ Signature ____ Date _____ Signature ____ Typed Typed Name: Thomas D. Kelly Name: Ying-Cheng Lo State of _____, County of _____ State of _____, County of _____ Signed before me on this _____ day of _____, 200__ Signed before me on this _____ day of _____, 200 by _____ **Notary Public** Notary Public Date _____ Signature ____ Date _____ Signature ____ Typed Typed Name: Shincy J. Maliekkal Name: Rodolfo G. Roger State of _____, County of _____ State of _____, County of _____ _____ 200___ Signed before me on this _____ day of ____ Signed before me on this _____ day of ______, 200___

90381-v1/EICHE/LAWDEPTADMIN-BX198400149/09-14-2005



Filed: 11/09/2007

Attorney Docket No. SMDL-

(112713-1739)

6397

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WITNESS our hand and seal

Date Signature	
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Name: Michael E. Hogard	Name: Donald D. Busby
State of, County of Signed before me on this day of, 2	State of, County of
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Notary Public	Notary Public
Date Signature	Date Signature
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Name: Robert W. Childers	Name: Yuanpang Samual Ding
State of County of	State of County of
Signed before me on this day of, 2	00 Signed before me on this day of, 200
DV	by
Inventor	Inventor
Notary Public	Notary Public

Serial No. 11/938,083 Filed: 11/09/2007 Attorney Docket No. SMDI (112713-1739)6397 **BALANCED FLOW DIALYSIS MACHINE** Date _____ Signature _____ Signature _ Typed Typed Name: Katherine M. Holian Name: Mark E. Jablonski State of _, County of _ State of _, County of , 200__ Signed before me on this _ Signed before me on this _ 200 _dayof _day of Inventor Inventor Notary Public Notary Public Date 11-9-2007 Signature Oru 8 1 Date _ Signature _ Typed Typed Name: Thomas D. Kelly Name: Ying-Cheng Lo State of 71 , County of 1 A KE Signed before me on this 9 day of NOVEMBER, 2007 County of State of Signed before me on this _ day of _ Thomas D. Kelly Inventor Inventor "OFFICIAL SEAL" VICTORIA MARIE RIVELLI NOTARY PUBLIC STATE OF ILLINGIAN Public My Commission Expires 03/26/2009 Notary Public __ Signature _ Signature _ Typed Typed Name: Shincy J. Maliekkal Name: Rodolfo G. Roger State of , County of State of County of 200 Signed before me on this ____ Signed before me on this _ \subseteq day of $_$ Inventer Inventor Notary Public Motary Public Date _ Signature : Date Signature Typed Typed Name: Donald A. Smith Name: Atif M. Yardimci State of __ County of State of County of 200 . 200 Signed before me on this _ Signed before me on this _ by . by_ Inventor Inventor Notary Public Notary Public



Filed: 11-09-2007

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Name: Michael E. Hogard	Name: Donald D. Busby
State of, County of	State of, County of
Signed before me on this day of	State of, County of, 200 Signed before me on this day of, 200
by	by
Inventor	byInventor
Notary Public	Notary Public
Date Signature	Date Signature
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Typed Name: Robert W. Childers	and the second s
State of, County of	State of County of
Signed before me on this day of	Name: Yuanpang Samuai Ding State of, County of, 200 Signed before me on this day of, 200
by	by
Inventor	Inventor
Notary Public	Notary Public

Serial No. 11/938,083Attorney Docket No. SMDI (112713-1739) Filed: 11-09-2007 6397 **BALANCED FLOW DIALYSIS MACHINE** Date 11/5/2007 Signature 11 Signature _____ Date ___ Typed Typed Name: Katherine M. Holian Name: Mark E. Jablonski State of ______, County of ______ Signed before me on this _____ day of ______, 200___ State of County of < Signed holden me on this Study of WEBER, 2007 Inventor MY COMMISSION EXPIRES:06/23/09 Notary Public Notary Public Date _____ Signature ____ Date _____ Signature ____ Typed Typed Name: Ying-Cheng Lo Name: Thomas D. Kelly ___, County of _____ ___, County of _____ State of _____ State of _____ Signed before me on this _____ day of ______, 200__ Signed before me on this _____ day of _____, 200__ by _____ by _____ Inventor Inventor Notary Public Notary Public _____ Signature _____ Date Signature _____ Date Typed Typed Name: Rodolfo G. Roger Name: Shincy J. Maliekkal State of ______, County of ______ Signed before me on this _____ day of _______, 200__ State of ______, County of ______ Signed before me on this _____ day of _______, 200___ by ____ by _____ Inventor Inventor Notary Public Notary Public Signature _____ Signature _____ Date Typed Typed Name: Donald A. Smith Name: Atif M. Yardimci State of ______, County of ______ Signed before me on this _____ day of _______, 200___ State of _____, County of _____, Signed before me on this ____ day of _____, 200__ by _____ Inventor Inventor Notary Public Notary Public



Filed: 11-09-2007

Attorney Docket No. SMDI

(112713-1739

6397

In consideration of good and valuable considerations, the receipt and sufficiency whereof are hereby acknowledged, we hereby assign to **BAXTER INTERNATIONAL INC.**, a corporation of Delaware, having a principal place of business at Deerfield, Illinois, its successors, legal representatives and assigns, and **BAXTER HEALTHCARE S.A.**, a corporation of Switzerland, having a principal place of business at Zurich, Switzerland, its successors, legal representatives and assigns (hereinafter jointly referred to as "assignee") the entire right, title and interest throughout the world in our invention or improvements in

BALANCED FLOW DIALYSIS MACHINE

and in the application for Letters Patent of the United States therefor, executed by each of us individually and any and all other United States applications and applications in any and all countries which we may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States or of any other country which may be obtained on any of the said applications, and in any reissue or extension thereof.

We hereby authorize and request the Commissioner of patents to issue said Letters Patent to said assignee.

We hereby authorize and request the attorneys of record in said application to insert in this assignment the date, serial number and attorney docket number of said application when officially known.

We warrant ourselves to be the owners of the interest herein assigned and to have the right to make this assignment; and further warrant that there are no outstanding prior assignments, licenses, or other rights in the interest herein assigned.

For said considerations we hereby agree, upon the request and at the expense of said assignee, its successors, legal representatives and assigns, to execute any and all divisional, continuation, and renewal applications for said invention or improvements, and any necessary oath or supplemental oath or affidavit relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application that said assignee, its successors, legal representatives and assigns may deem necessary or expedient, and for the said considerations we further agree, upon the request of said assignee, its successors, legal representatives and assigns, in the event of said application or any division thereof, or Letters Patent issued thereon, or any reissue or application for the reissue thereof becoming involved in interference, to cooperate to the best of our ability with said assignee, its successors, legal representatives and assigns in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof. We further agree to perform, upon such request, any and all affirmative acts to obtain Letters Patent, and vest all rights therein hereby conveyed in the said assignee, its successors, legal representatives and assigns whereby said Letters Patent will be held and enjoyed by the said assignee, its successors, legal representatives and assigns to the end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made, and for the said considerations we hereby also assign to said assignee, its successors, legal representatives and assigns the entire right, title and interest in said invention or improvements for any and all foreign countries and the right of priority for patent and utility model applications in all countries arising under any applicable international convention for the protection of industrial property and/or any internal priority legislation of such countries, and we further agree upon the request of said assignee, its successors, legal representatives and assigns to execute any and all documents that shall be required to be executed in connection with any and all applications for foreign Letters Patent therefor, including the prosecution thereof, and to execute any and all documents necessary to invest title in said foreign applications and patents in said assignee.

WITNESS our hand and seal

Date Signature	Date Signature
Typed	Typed
Name: Michael E. Hogard	Name: Donald D. Busby
State of, County of	State of, County of
Signed before me on this day of, 20	State of, County of
by	by
inventor	Inventor
Notary Public	Notary Public
	Date Signature
Date Signature	
Typed	Typed
Name: Robert W. Childers	Name: Yuanpang Samual Ding
State of, County of Signed before me on this day of, 20	State of, County of
signed before me on this day of, 20	Signed before me on this day of, 200
ργ	by
Inventor	Inventor
Notary Public	Notary Public

Serial No. 11/938,083Filed: 11-09-2007 Attorney Docket No. SMDI (112713-1739) 6397 **BALANCED FLOW DIALYSIS MACHINE** Date _____ Signature ____ Date _____ Signature ___ Typed Typed Name: Katherine M. Holian Name: Mark E. Jablonski State of _____, County of _____ Signed before me on this _____ day of _____ State of _____, County of _____, Signed before me on this ____ day of _____, 200__ . 200 by ___ Inventor Inventor Notary Public Notary Public Date _____ Signature ____ Date __ _____ Signature _____ Typed Typed Name: Ying-Cheng Lo
State of ______, County of _____
Signed before me on this _____ day of _____ Name: Thomas D. Kelly State of ______, County of ______ Signed before me on this _____ day of _____ ______, 200___ Inventor Inventor Notary Public Notary Public Date Date ____ Signature ___ __ Signature ___ Typed Typed Name: Shincy J. Maliekkal Name: Rodolfo G. Roger State of ______, County of ______ Signed before me on this _____ day of _______, 200___ State of ______, County of _____ Signed before me on this _____ day of ______, 200__ Inventor Inventor Notary Public Notary Public Date 11-7-07 Signature Worald Smit Date ___ __ Signature _____ Typed Typed Name: Donald A. Smith
State of <u>TLLINOIS</u>, County of <u>LAKE</u>
Signed before me on this <u>711</u> day of <u>NOVEMBER</u>, 2007 Name: Atif M. Yardimci State of ______, County of ______ Signed before me on this _____ day of _______, 200__ LONALD A

Inventor

Notary

OFFICIAL SEAL

CCLORS LACOSEN
NOTARY PUBLIC - STATE OF SLEWON Notary Public

Inventor



ASSIGNMENT (Joint Inventors)

Serial No. 11/938,083

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BALANCED FLOW DIALYSIS MACHINE

and in the application for Letters Patent of the United States therefor, executed by each of us individually and any and all other United States applications and applications in any and all countries which we may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States or of any other country which may be obtained on any of the said applications, and in any reissue or extension thereof.

We hereby authorize and request the Commissioner of patents to issue said Letters Patent to said assignee.

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For said considerations we hereby agree, upon the request and at the expense of said assignee, its successors, legal representatives and assigns, to execute any and all divisional, continuation, and renewal applications for said invention or improvements, and any necessary oath or supplemental oath or affidavit relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application that said assignee, its successors, legal representatives and assigns may deem necessary or expedient, and for the said considerations we further agree, upon the request of said assignee, its successors, legal representatives and assigns, in the event of said application or any division thereof, or Letters Patent issued thereon, or any reissue or application for the reissue thereof becoming involved in interference, to cooperate to the best of our ability with said assignee, its successors, legal representatives and assigns in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof. We further agree to perform, upon such request, any and all affirmative acts to obtain Letters Patent, and vest all rights therein hereby conveyed in the said assignee, its successors, legal representatives and assigns whereby said Letters Patent will be held and enjoyed by the said assignee, its successors, legal representatives and assigns to the end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made, and for the said considerations we hereby also assign to said assignee, its successors, legal representatives and assigns the entire right, title and interest in said invention or improvements for any and all foreign countries and the right of priority for patent and utility model applications in all countries arising under any applicable international convention for the protection of industrial property and/or any internal priority legislation of such countries, and we further agree upon the request of said assignee, its successors, legal representatives and assigns to execute any and all documents that shall be required to be executed in connection with any and all applications for foreign Letters Patent therefor, including the prosecution thereof, and to execute any and all documents necessary to invest title in said foreign applications and patents in said assignee.

WITNESS our hand and seal

Date Signature		Date Signature
Typed		Typed
Name: Michael E. Hogard		Name: Donald D. Busby
State of, County of Signed before me on this day of		State of, County of
Signed before me on this day of	, 200	Signed before me on this day of, 200_
by		by
Inventor		Inventor
Notary Public		Notary Public
Date Signature		Date Signature
Typed		Typed
Name: Robert W. Childers		Name: Yuanpang Samual Ding
State of, County of		State of, County of
Signed before me on this day of	, 200	Signed before me on this day of, 200
by		by
Inventor		Inventor
Notary Public		Notary Public

Serial No. 11/938,083	Filed: 11-09-2007	Attorney Docket No. SMDI (112713-1739) 6397 V DIALYSIS MACHINE
Date Signature		Date Signature
Typed		Typed
Name: Katherine M. Holian State of Cour	nty of	Name: Mark E. Jablonski State of County of
Signed before me on this day	nty of, 200	State of, County of Signed before me on this day of, 200_
DV.		by
Inventor		byInventor
Notary Public		Notary Public
Date Signature		Date Signature
DateSignature Typed		Typed Signature
Name: Thomas D. Kelly		Name: Ving Chang Lo
State of, Cour Signed before me on this day	nty of	State of, County of, 200_
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Notary Public		Notary Public
Date Signature		Date Signature
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lame: Shincy J. Maliekkal		Name: Rodolfo G. Roger
State of, Coun Signed before me on this day	ity of	State of, County of Signed before me on this day of, 200_
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yInventor		byInventor
Notary Public		Notary Public
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Pate Signature		Date Oblot Signature
yped		Typed Name: Atif M. Vordingi.
lame: Donald A. Smith state of, Coun	tv of	Name: Atif M. Yardimci State of Illinois, County of Lake
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		by ATT M. CARDINGI
y Inventor		by The Chicon
inventor		Inventor
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		Junior R. Vandal Jennifer R. Va
Notary Public		Motary Public State of

RECORDED: 01/15/2008

Notary Public, State of Illinois
PATE (Gommission Exp. 11/28/2009)
REEL: 020367 FRAME: 0436