Commissioner of Patents & Trademarks Bo	OX ASSIGNMENT	<u>s</u>	Wa	shington, D.C. 2023
1	TION FORM COVE			RTMENT OF COMMERCE
(Rov. 03/01)	ATENTS ON	LY		ND TRADEMARK OFFICE
To the honorable Commissioner of Patents and Tr	ademarks; Please reco	ord the attached origin	ial document or d	copy thereof:
1. Name of Conveying Party(ies):	2. Name and Add	ress of Receiving F	'arty(ies):	¥(·)
GUENTHER, Goetz	Name:	Fresenius Medi	cal Care Deuts	schland GmbH
HAECKER, Juergen	Street Address:	Else-Kroener-St	trasse 1	
KOEHLER, Markus	Street Address:			
LAUER, Martin	City:	Bad Homburg		
MUELLER, Raif	State/Country:	Germany	Postal Code;	61352
Additional name(s) of convoying party(les) attached? Yes No	Additional name(s) and add	freeses speched? Yes	₩ Na	
3. Nature of Conveyance:	"			
Assignment	Change of Na	me		
Security Agreement	Other:			
☐ Merger	Execution Date:	05142010, 05172 05172010, 05172		
4. Application Number(s) or Patent Number(s):		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Assignment is being filed together with new appli	ication and the first e	xecution date of an	plication is :	
Application has been filed already and the applic		03102010	(reconstant to r	
A. Patent Application Number(s):	B. Issued Patent Nur			
12733592				
	i: nbers attached? □Y	es No		
5. Name and address of party to whom corresponde		6. Total number of	f applica-	
concerning this matter should be mailed:		tions and pater	nts involved:	1
CUSTOMER NUMBER 00136	-or-	7. <b>Total</b> Fee (37 0	FR 3.41):	\$ 40.00
JACOBSON HOLMAN PLLO		Enclosed		
400 Seventh Street, N.W. Washington, D.C. 20004-221	0	Any deficienc	ies in enclosed	fees are
Tel. 202-638-6666	0	authorized to	be charged to I	
	ļ	Account No.	06-1358.	
Attorney Docket Number: P73440US0				
7.77	NOT USE THIS SPACE	<b>E</b>		
<ol> <li>Statement and Signature:</li> <li>To the best of my knowledge and belief, the foregroup of the original document.</li> </ol>	oing Information is tr	ue and correct and	any attached c	opy is a true
Harvey B. Jacobson, Jr. 20,851	( Fauly	Rep No 40, 495	September	12, 2011
Name of Person Signing, Reg. No.	Signature	7		Date
				I

**PATENT** 

REEL: 026893 FRAME: 0038

SEP.12.2011 3:40PM JACOBSON HOLMAN PLLC

Page 2 of 2 September 12, 2011 Atty. Docket no. P73440SU0 Serial no. 12/733,592

## Additional names of conveying parties:

- 6) SCHNEIDER, Hans-Peter
- 7) WEBER, Tobias
- 8) WEIS, Manfred

PATENT REEL: 026893 FRAME: 0039

7N0.531 · · · P.2<sup>...</sup> · ·

## UNITED STATES OF AMERICA

(1) Goetz GUENTHER  (2) Juergen HAECKER  (3) Markus KOEHLER  (4) Martin LAUER  (5) Raif MUELLER  In consideration of the sum of one dollar (\$1.00), and other good and valuable consideration paid to each of the undersigned, the reaceipt and sufficiency of which are hereby acknowledged, the undersigned hereby assigns, transfers and sets over to  (6) Insert Name of Assignee  (7) Insert Address of Assignee  (8) Insert Legal Entity and State or Country (e.g., a corporation or citizen of Japan)  (9) Insert Identification of Invention, such as Title, Case Number or Foreign Application Number  (9) Insert Legal Entity and State or Country (e.g., a corporation or citizen of Japan)  (9) Insert Identification of Invention, such as Title, Case Number or Foreign Application Number  (10) Insert Date of signing of Said application having been flor/grounded an application for patent in the United States of Said application having been flor/grounded an application for patent in the United States of Said application having been flor/grounded an application for patent in the United States of Said application having been flor/grounded an application for patent in the United States of Said application having been flor/grounded an application for patent in the United States of Said application having been flor/grounded an application for patent in the United States of Said application having been flor/grounded an application for patent in the United States of Said application having been flor/grounded an application for patent in the United States of Said application having been flor/grounded an application for patent in the United States of Said application for patent in the United States of Said application for patent in the United States of Said application for patent in the United States of Said application for patent in the United States of Said application for patent in the United States of Said application for patent in the United States of Said application for patent in the United States of Said application for patent in the			ALLI I	D GIMIES O	AWERICA	- ASSIGNM	FNT	
(4) Markus KOEHLER (5) Martin LAUER (6) Martin LAUER (7) Insert Address of Assignee (8) Insert Name of Assignee (9) Insert Address of Assignee (9) Insert Laudiness of Assignee (10) Insert Laudiness of Assignee (11) Insert Laudiness of Assignee (12) Insert Laudiness of Assignee (13) Insert Laudiness of Assignee (14) Insert Laudiness of Assignee (15) Insert Laudiness of Assignee (16) Insert Laudiness of Assignee (17) Of Eles-Kreener-Stresse 1, 6132 Bad Homburg, Germany (18) Insert Laudiness of Assignee (18) Insert Laudiness of Assignee (19) Insert Laudiness of Assignee (19) Insert Laudiness of Signing of Application, or filing also and Assignee and Insert Studies of Application, or filing also and Assignee and Assignee (10) Insert Laudiness of Signing Application, or filing also and Assignee (10) Insert Laudiness of Application, or filing algorithm of Application or Appli	(1-5)	Insert <u>Name(s)</u> of Invento	rs (1)			, , , , , , , , , , , , , , , , , , , ,		
(4) Martin LAUER (5) Raif MUELLER (6) Raif MUELLER (6) Raif MUELLER (7) In constituent of the sum of one dollar (\$1.00), and other good and valuable consideration undersigned, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assigns, tenders and sets over to receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assigns, tenders and sets over to receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assigns, tenders and sets over to receipt and sets over to receive and sets over to receipt and sets over to receipt and sets over to receive to receive and sets over to receipt and sets over to receive to receive and sets over to recei			(2)	Juergen HAECH	ŒR	· · · · · · · · · · · · · · · · · · ·		************************************
(5)   Raff MURLLER   In consideration of the sum of one dollar (\$1.00), and other good and valuable consideration paid to seat of the undersigned, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assigns, transfers and sets over to			(3)	Markus KOEHL	ER	***************************************	医感觉存在点 化分泌性甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	###
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(7) Insert Address of Assignee (8) Insert Legal Entity and Stato or Country (e.g., a corporation or cilizen of Japan) (9) Insert Legal Entity and Stato or Country (e.g., a corporation or cilizen of Japan) (9) Insert Legal Entity and Stato or Country (e.g., a corporation or cilizen of Japan) (9) Insert Legal Entity and Stato or Country (e.g., a corporation or cilizen of Japan) (9) Insert Legal Entity and Stato or Country (e.g., a corporation or cilizen of Japan) (10) Insert Date of signing of Application Number  (110) Insert Date of signing of Application Insert Date of Statia application and Insert Date of Sarial No. I Known  (121) Sarial No. I Known  (122) The undersigned agree(e) to execute all papers necessary in connection with this application and also to execute separate assignments in connection with the Assignee in every way possible in obtaining evidence and applications thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.  (3) The undersigned agree(s) to execute all papers and documents and perform any act which may be declared concerning this or any continuing or civisional applications thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.  (3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with arms the connection with chains or any activation and perform any act which may be necessary in connection with any interference and thereby covenants that he has (they have) full fight to convention or of the papers and documents and perform any act which may be necessary in connection with chains or the papers and documents and perform any act which may be necessary to resident or the papers and documents and perform any act which may be necessary to resident or the papers and forward that the has (they have) full fight to corror and the formation of the papers and documents and perform an								able considerations acknowledged, the
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Insert   Legal Entity and State or   (8)   Country (9.9. a cooperation or cilizen of Japan)		Insert <u>Address</u> of Assigned	(7)	of Else-Kroene	er-Strasse 1, 613	52 Bad Homburg	], Germany	\$*************************************
(iteranizate designated as the Assigneet) the entiter right, title and interest for the United States. Iteraturises and possessions, in the invention known as made in a such as Title, Case Number of Foreign Application Number  (iteraturises and possessions, in the invention known as DEVICE AND METHOD FOR TREATING A MEDICAL FLUID AND MEDICAL CASSETTE  for which the undersigned has (flave) executed an application for patent in the United States of Application, or titing date and Serial No., if known  1) The undersigned agree(s) to execute all papers necessary in connection with this application and also to execute separate assignments in connection with this application and any continuing or divisional applications thereof and to cooperate with the Assignee in every way possible in obtaining evidence and eging forward with interference.  3) The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing or divisional applications thereof and to cooperate with the Assignee in every way possible in obtaining evidence and eging forward with the undersigned hereby authorise(s) and requested to execute all papers and documents and perform any act which may be necessary for connection with charman and the provisions of the International United States resulting from this application of Industrial Property or similar agreements.  4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtaining evidence and eging forward and hereby covenants that he has (they have) in industrial Property or similar agreements.  4) The undersigned hereby authorise(s) and requested to the said Assignee, as Assignee of the entire interest, and Trademarks to issue any and all Letters Patents and Patents and Trademarks to issue any and all Letters Patents and Patents and Trademarks to issue any and all Letters Patents and Patents and Trademarks to issue any and all acts of past and future infringement.  7) The undersigned hereby authorise (see all papers and documen	(8)	Insert Legal Entity and Sta	<u>to or</u> (8)	a Corporation		۸f	Corren	\$\$\$ n b Y 2 T Y Y X X X X X X X X X X X X X X X X X
DEVICE AND METHOD FOR TREATING A MEDICAL FLUID AND MEDICAL CASSETTE    Design Application Number   Said Application Number		citizen of Japan)		(hereinafter designation designation)	nated as the Assic	inee) the entire ric	the fills and intone - Le- 41	ne United States, its
Insert Date of signing of Application, or filling date and Serial No. If known  In The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing or divisional applications as the Assignee may deem necessary or expedient.  The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this or any continuing or divisional applications as the Assignee may deem necessary or expedient.  The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this or any continuing or divisional applications thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.  3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims provisions of the International Union for Protection of Industrial Property or similar agreements.  4) The undersigned agree(s) to perform all affilmative acts which may be necessary to obtain a grant of a valid United States patent to the ST has undersigned agree(s) to perform all affilmative acts which may be necessary to obtain a grant of a valid United States patent to the ST has undersigned agree(s) to perform all affilmative acts which may be necessary to obtain a grant of a valid United States patent to the ST has undersigned agree(s) to perform all affilmative acts which may be necessary to obtain a grant of a valid United States patent to the ST has undersigned agree(s) to perform all affilmative acts which may be necessary to obtain a grant of a valid United States patent to the Assigner of the International United States resulting from this applications or any continuing or divisional applications thereof to the said Assigned agree(s) to execute all papers necessary in connection with any termination or available of the patent and trademarks to issue as a patent and trademarks to i	(9)	Insert Identification of Inven-	tion, (9)					LCACOETTE
Insert Date of signing of Application, or filling date and Sarial No., If known  Serial No., If known  1) The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing or divisional applications as the Assignee may deem necessary or expedient.  2) The undersigned agree(s) to execute all papers necessary in connection with this applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.  3) The undersigned agree(s) to execute all papers necessary in connection with any interference.  3) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this or any continuing or divisional applications as the Assignee in every way possible in obtaining evidence and going forward with such interference.  3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims provisions of the International Union for Protection of Industrial Property or similar agreements.  4) The undersigned agree(s) to perform all affilmative acts which may be necessary to obtain a grant of a valid United States patent to the States resulting from this applications and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents and Trademarks to issue any and all Letters Patents and Interest herein assigned, and that he has (they have) not executed, and will not execute any agreement in conflict herewith.  6) Assignor hereby further assigns to Assignee all claims and causes of action for Infringement of the petent rights assigned herein, including right to sue for, and collect damages for, any and all acts of past and future infringement.  In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).  Assignor hereby during a signature  Name of Inventor  Name of Inventor  Name of Inventor  Name of Inventor  Name of Inve		Foreign Application Number	,, r	DV444			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	LUASSIIE
Sarial No., if known  1) The undersigned agree(s) to execute all papers necessary in connection with this application and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.  2) The undersigned agree(s) to execute all papers necessary in connection with this application and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.  2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this constitution of execute all papers and documents and perform any act which may be necessary in connection with any interference which may be necessary in connection with any interference which may be necessary in connection with calms provisions of the International Union for Protection of Industrial Property or similar agreements.  4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the solid states resulting from this application or any continuing or divisional applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute any agreement in conflict herewith.  8) Assignor hereby there assigns to Assignee all claims and causes of action for infringement of the patent rights assigned herein, including right to use for, and collect damages for, any and all acts of past and future infringement.  7) The undersigned hereby grant(s) the law firm of Jacobson Holman PLLC, 400 Seventh Street, N.W., Washington, D.C.  Date  Name of Inventor  N	(4 A)	Insert Date of signing	of.	for which the unde	ırsıgned nas (nave	9) executed an ap	Diication for natent in the	United States of
1) The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing or divisional applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.  2) The undersigned agree(s) to execute all papers necessary in connection with may be declared concerning this or any continuing or divisional applications thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.  3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims provisions of the international Union for Protection of Industrial Property or similar agreements.  4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the solid Assigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the solid Assigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the solid Assigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the solid Assigned Assigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent and trademarks to issue any and all Letters Patents and Trademarks to issue any and all Letters Patents and Trademarks to issue any and all Letters Patents and Trademarks to issue any and all Letters Patents and Trademarks to issue any and all Letters Patents and Trademarks to issue any and all Letters Patents and Collect damages for, any and all Letters Patents and Collect damages for, any and all Letters Patents and Collect damages for, any and all Letters Patents and Collect damages for, any and all Letters Patents and Collect damages for any and all Letters Pat		Application, or filing date	and (10)	Said application ha	aving been filed/e	<del>xecuted</del> on <u>Ma</u>	<i>uch</i> 10'5010	) (and assigned
In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).    Date	or any co with such provision United St and here will not es ( right to s	ontinuing or divisional application interference.  3) The undersigned agree(sees of the international Union of the undersigned agree(sees). The undersigned hereby ates resulting from this applicates resulting from this applicates resulting from the applicate any agreement in cores. Assignor hereby further as up for, and collect damages of the undersigned hereby appower to insert on this assignor to the undersigned to this assignor to the transfer to this assignor to the transfer	ilions thereof a i) to execute a for Protection i) to perform a authorize(s) a cation or any c ey have) full ri offlict herewith. ssigns to Assig for, any and a grant(s) the la	In papers riecessar and to cooperate will papers and docur of Industrial Proper ill affirmative acts we not request(s) the Cooperation on tinuing or division ght to convey the cooperation interest and the cooperation without identification	y in connection with the Assignee in ments and perform ty or similar agremation may be necessammissioner of Fall applications the entire interest here causes of action for the infringement in Holman PLLC,	or hard interference of every way possiled any act which moments. The essary to obtain a electric and Trade ereof to the said Alein assigned, and or infringement of the said Alein assigned.	ce which may be declare ble in obtaining evidence hay be necessary in configurant of a valid United Simarks to issue any and assignee, as Assignee of that he has (they have)	and going forward and going forward nection with claims tates patent to the all Letters Patents the entire interest, not executed, and different, including
Name of Inventor typed name signature  Name of Inventor t	In	witness whereof, executed t	y the undersi	ened on the date(s)	opposite the uno	iersigned nameis	)	
Name of Inventor Signature  Name of Inventor Suped name Signature  This assignment should preferably be signed before a United States Consul if signed abroad, or a Notary Public if domestically signed. If ot, then the execution by the inventor(s) should be witnessed by at least two witnesses who sign here:  Additional inventor's names and signatures on a separate sheet.	Date	7 14.05.10	Name of Inve	ntor Goetz GUE	NTHER		Twe Her	(SEAL)
Date  Name of Inventor  Name o	Tata \	<i>'</i>	<b>A</b> )	_			7	(
Name of Inventor	2816		Name of Inve	ntor <u>Juergen HA</u>				(SEAL)
typed name signature  Name of Inventor Martin LAUER  Date Name of Inventor Ralf MUELLER  This assignment should preferably be signed before a United States Consul if signed abroad, or a Notary Public if domestically signed. If ot, then the execution by the inventor(s) should be witnessed by at least two witnesses who sign here:  Additional inventor's names and eignatures on a separate sheet.	Date 📉	J	Name of Inve	ntor Markus KO			signature	
Name of Inventor Martin LAUER  typed name signature  Name of Inventor Ralf MUELLER  (SEAL)  typed name signature  This assignment should preferably be signed before a United States Consul if signed abroad, or a Notary Public if domestically signed. If ot, then the execution by the inventor(s) should be witnessed by at least two witnesses who sign here:  Additional inventor's names and eignatures on a separate sheet.		/		WILLIAM TES			Slonature	(SEAL)
Name of Inventor Ralf MUELLER  This assignment should preferably be signed before a United States Consul if signed abroad, or a Notary Public if domestically signed. If ot, then the execution by the inventor(s) should be witnessed by at least two witnesses who sign here:  Additional inventor's names and eignatures on a separate sheet.	Date 🔼		Name of Inve	ntor <u>Martin LAU</u>	• •	المراب المرابع	,	(SEAL)
This assignment should preferably be signed before a United States Consul if signed abroad, or a Notary Public if domestically signed. If ot, then the execution by the inventor(s) should be witnessed by at least two witnesses who sign here:  Additional inventor's names and signatures on a separate sheet.	<b></b>	′ <u>^</u>			*		signature	(SEAL)
This assignment should preferably be signed before a United States Consul if signed abroad, or a Notary Public if domestically signed. If ot, then the execution by the inventor(s) should be witnessed by at least two witnesses who aign here:  Additional inventor's names and eignatures on a separate sheet.	Jate		Name of Inve	ntor Ralf MUELL			<del></del>	(SEAL)
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Additional inventor's names and Witness signatures on a separate sheet.	ot, then t	he execution by the inventor	(s) should be	witnessed by at lea	⊃letes Consul II s ist fwo witneseAr	igned aproad, or:	a Notary Public if domes	lically signed. If
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LAW OFFICES OF

JACOBSON HOLMAN

PROFESSIONAL LIMITED LIABILITY COMPANY
THE JENIFER BUILDING
400 SEVENTH STREET, N.W.
WASHINGTON, D.C. 20004

JH 5/01 (Copying without deletions permitted)

P.5 P.5

# ADDED PAGE TO ASSIGNMENT FOR SIGNING BY ADMINISTRATOR(TRIX), EXECUTOR(TRIX) OR LEGAL REPRESENTATIVE ON BEHALF OF DECEASED OR INCAPACITATED INVENTOR (37 CFR 1.42 AND 1.43)

í,
Andrea Guenther, Richard Robert Bernd Günther and Gesa
(type or print pamels) of administrative (this)
hereby declare that I am a citizen of Germany  Dagmar Günther
residing at <u>Steinstrasse 15, 61440 Oberursel</u> , Germany Theodor-Veiel-Strasse 101, 70374 Stuttgart
and that I am executing and signing the declaration to which this is attached as (check one):
☐ the administrator(trix) of
executor(trix) of the last will and testament of
🔯 legal representative (or heirs) of
Goetz Guenther
Full name of (first, second etc.) deceased or incapacitated inventor  Germany
Country of citizenship of deceased or incapacitated inventor Landgrafenstrasse 56, Bad Homburg, Germany 61350
Residence of deceased or incapacitated inventor
Post Office Address of deceased or incapacitated inventor
NOTE: The name of the first, second atc. deceased or incapacitated inventor should preferably also be filled in at the appropriate prior space of theassignment adding the words "deceased-completed on added page" or "incapacitated-completed on added page."
That, upon information and belief, I aver those facts which the inventor is required to
Date: 12.05. 2010
(Signature of administrator(trix), executor(trix)

-No.531- P.6 ---

•		UNITE	ED STATES OF AMERICA - A	ASSIGNMENT
(1-4	<li>insert <u>Name(s)</u> of Invento</li>	rs (1)	Goetz GUENTHER	
•		(2)	Juergen HAECKER	***************************************
•		(3)	Markus KOEHLER	
		(4)		**************************************
		(5)	Raif MUELLER	and
		.,	In consideration of the sum of one of paid to each of the undersioned, the rec	dollar (\$1.00), and other good and valuable considerations eipt and sufficiency of which are hereby acknowledged, the
(6)	Insert <u>Name</u> of Assignee	(6)	undersigned hereby assigns, transfers Fresenius Medical Care Deutschland	DIG DECE DAGE TO
(7)	Insert Address of Assigned	, ,	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	***************************************
(8)	Insert Legal Entity and Sta	` '	of Else-Kroener-Strasse 1, 61352 E	Sad Homburg, Germany
	Country (e.g., a corporation	on or	TOTAL TARRACT CONTRACTOR CONTRACT	of Germany
(0)	citizen of Japan) Insert <u>Identification</u> of Inven	45	territories, dependencies and possession	a) the entire right, title and Interest for the United States, its ons, in the invention known as
(9)	such as Title, Case Number Foreign Application Number	er or (a)	DEVICE AND METHOD FOR TREATIN	NG A MEDICAL FLUID AND MEDICAL CASSETTE
	Inner Date of the		for which the undersigned has (have) ex	xecuted an application for patent in the United States of
(10)	Insert <u>Date</u> of signing Application, or filing date Serial No., if known	of (10) and	Said application having been filed/exect Serial No. 121233, 596	wheeler Nasal IO DAIA
or any with so provision United and he will not right to 20004, United	2) The undersigned agree(s continuing or divisional application interference.  3) The undersigned agree(s ons of the International Union (4) The undersigned agree(s 5) The undersigned hereby (5) The undersigned hereby (5) States resulting from this applicately covenants that he has (the execute any agreement in cond.) Assignor hereby further as a sue for, and collect damages.  7) The undersigned hereby (5) the power to insert on this assistates Patent and Trademark (6)	a) to execute a tions thereof; b) to execute a for Protection ) to perform a authorize(s) a cation or any c ey have) full r ifflict herewith, signs to Assig for, any and a grant(s) the la ignment any f Office for reco	all papers necessary in connection with a and to cooperate with the Assignee in everall papers and documents and perform an of Industrial Property or similar agreeme all affirmative acts which may be necessared request(s) the Commissioner of Pater continuing or divisional applications thereoright to convey the entire Interest herein a gnee all claims and causes of action for infall acts of past and future infringement. The form of Jacobson Holman PLLC, 400 further identification which may be necessoridation of this document.	ry to obtain a grant of a valid United States patent to the nts and Trademarks to issue any and all Lotters Patents of to the said Assignee, as Assignee of the entire interest, assigned, and that he has (they have) not executed, and fringement of the patent rights assigned herein, including a Seventh Street, N.W., Washington, D.C. is sary or desirable in order to comply with the rules of the
Date	My or 10	y the undersi	gned on the date(s) opposite the undersigned	gned name(s).
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not, the	This assignment should prefer the execution by the inventori ditional inventor's names and	rably be signe (s) should be	ed before a United States Consul If signe witnessed by at least two witnesses who Witness	ad abroad and blata. This is a second
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LAW OFFICES OF

JACOBSON HOLMAN

PROFESSIONAL LIMITED LIABILITY COMPANY
THE JENIFER BUILDING
400 SEVENTH STREET, N.W.

WASHINGTON, D.C. 20004

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# ADDED PAGE TO ASSIGNMENT FOR SIGNING BY ADMINISTRATOR(TRIX), EXECUTOR(TRIX) OR LEGAL REPRESENTATIVE ON BEHALF OF DECEASED OR INCAPACITATED INVENTOR (37 CFR 1.42 AND 1.43)

Andrea Guenther, Richard Robert Bernd Günther and Gesa	1
(type or print name(s) of administrator(trix), executor(trix), legal representative or all heirs)  Dagmar ( hereby declare that I am a citizen of Germany	ünthe:  -
residing at Steinstrasse 15. 61440 Oberursel, Germany Theodor-Veiel-Strasse 101, 70374 Stuttgart	
and that I am executing and signing the declaration to which this is attached as (check one):	
☐ the administrator(trix) of	
executor(trix) of the last will and testament of	i
M legal representative (or heirs) of	1
Goetz Guenther	İ
Full name of (first, second etc.) deceased or incapacitated inventor  Germany	1
Country of citizenship of deceased or incapacitated inventor Landgrafenstrasse 56, Bad Homburg, Germany 61350	
Residence of deceased or incapacitated inventor	1
Post Office Address of deceased or incapacitated inventor	1 (
NOTE: The name of the first, second etc. deceased or incapacitated inventor should preferably also be filled in at the appropriate prior space of theassignment adding the words "deceased-completed on added page" or "incapacitated-completed on added page."	.
That, upon information and belief, I aver those facts which the inventor is required to	1
Date: 14.05.2010	İ
- Ountia	* *
(Signature of administrator(trix) executor(trix)	, !

legal representative (or all heirs))

03503.09 4/9

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-		UNITE	D STATES OF AMER	ICA - ASSIGNMEN	T	
(1	-5) Insert <u>Name(s)</u> of Inver	itors (1)	Goetz GUENTHER	- TO THE MINISTER	1	
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(6)	Insert <u>Name</u> of Assignee	(6)	Fresenius Medical Care De	The second secon		• • •
(7)	Insert <u>Address</u> of Assign	99 (7)	.,,,,,,	, 61352 Bad Homburg, Ge	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
(8)	Insert <u>Legal Entity</u> and <u>S</u>	tate or (8)	a Corporation		*****************	164. 144. 144. 144. 144. 144. 144. 144.
	Country (e.g., a corpora citizen of Japan)	tion or	(hereinafter designated as the	Accidence the angle	ermany	tool the too
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Date	In Witness whereof, executed	by the undersig	ned on the date(s) opposite the	undersigned name(s).		
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LAW OFFICES OF

#### JACOBSON HOLMAN

PROFESSIONAL LIMITED LIABILITY COMPANY THE JENIFER BUILDING 400 SEVENTH STREET, N.W.

WASHINGTON, D.C. 20004

JH 5/01 (Copying without deletions permitted)

03903,094/3

# ADDED PAGE TO ASSIGNMENT FOR SIGNING BY ADMINISTRATOR(TRIX), EXECUTOR(TRIX) OR LEGAL REPRESENTATIVE ON BEHALF OF DECEASED OR INCAPACITATED INVENTOR (37 CFR 1.42 AND 1.43)

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74	Andrea Guenther, Richard Robert Bernd Günther an	d Gesa	<b>a</b>
(lype or	print name(s) of administrator(trix), executor(trix), legal registration		
		agmar.	Günthe:
residing	at Steinstrasse 15, 61440 Oberursel, Germany Theodor-Veiel-Strasse 101, 70374 Stuttgart	<b>-</b>	•
and that one ):	I am executing and signing the declaration to which this is attached as (check		
	the administrator(trix) of		
	executor(trix) of the last will and testament of		
数	legal representative (or heirs) of		
	Goetz Guenther		•
	of (first, second etc.) deceased or incapacitated Inventor	t	
Country o	f citizenship of deceased or incapacitated inventor rafenstrasse 56, Bad Homburg, Germany 61350		,
Residence	of deceased or incapacitated inventor		1
Post Offic	e Address of deceased or incapacitated inventor		
ps	the name of the first, second etc. deceased or incapacitated inventor should preferably also be filled at the appropriate prior space of theassignment adding the words "deceased-completed on added page."  on information and belief, I aver those facts which the inventor is required to 4-05-2010.  (Signature of administrator(Irix), executor(Irix))		

05503-07 4/9

(SEAL)

#### UNITED STATES OF AMERICA - ASSIGNMENT **/1-5**] Insert Name(s) of Inventors (1)Goetz GUENTHER (2)Juergen HAECKER (3)Markus KOEHLER (4)Martin LAUER (5)Raif MUELLER In consideration of the sum of one dollar (\$1.00), and other good and valuable considerations paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assigns, transfers and sets over to (6) Insert Name of Assignee Fresenius Medical Care Deutschland GmbH (6)(7) Insert Address of Assignoe (7)Eise-Kroener-Strasse 1, 61352 Bad Homburg, Germany (8) Insert Legal Entity and State or (8) Germany Country (e.g., a corporation or (hereinafter designated as the Assignee) the entire right, title and interest for the United States, its citizen of Japan) territories, dependencies and possessions, in the invention known as Insert Identification of Invention, (9) DEVICE AND METHOD FOR TREATING A MEDICAL FLUID AND MEDICAL CASSETTE (9) such as Title, Case Number or Foreign Application Number for which the undersigned has (have) executed an application for patent in the United States of Insert <u>Date</u> of signing of (10)Said application having been filed/executed on March 10, 2010 (10)Application, or filing date and Serial No., if known Serial No. 1) The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing or divisional applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient. 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this or any continuing or divisional applications thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims provisions of the International Union for Protection of Industrial Property or similar agreements. 4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the 5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents United States resulting from this application or any continuing or divisional applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute any agreement in conflict herewith, 6) Assignor hereby further assigns to Assignee all claims and causes of action for infringement of the patent rights assigned herein, including right to sue for, and collect damages for, any and all acts of past and future infringement. 7) The undersigned hereby grant(s) the law firm of Jacobson Holman PLLC, 400 Seventh Street, N.W., Washington, D.C. 20004, the power to Insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document. In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s). Date Name of Inventor Goetz GUENTHER (SEAL) typed name Lako signature Date Name of Inventor Juergen HAECKER (SEAL) typed name signature Date Name of Inventor Markus KOEHLER (SEAL) typed name signature Date Name of Inventor Martin LAUER (SEAL) typed name signature Date Name of Inventor Raif MUELLER

This assignment should preferably be signed before a United States Consul if signed abroad, or a Notary Public If domestically signed. If not, then the execution by the inventor(s) should be witnessed by at least two witnesses who sign here Additional Inventor's names and Witness

typed name

signatures on a separate sheet.

Witness

LAW OFFICES OF

JACOBSON HOLMAN

PROFESSIONAL LIMITED LIABILITY COMPANY THE JENIFER BUILDING 400 SEVENTH STREET, N.W.

WASHINGTON, D.C. 20004

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PATENT REEL: 026893 FRAME: 0046

signature

	<b></b>	UNITE	) States of America - As:	SIGNMENT
(1-	5) Insert <u>Name(s)</u> of Inventors	(1)	Goetz GUENTHER	S.OMMEN
•		(2)	Juergen HAECKER	25 m-162,625 g65,655
,	•	(3)	Markus KOEHLER	
		(4)	Martin LAUER	Anny 1241 - 12994
•		(5)	Ralf MUELLER	an
(2)			In consideration of the	r (\$1.00), and other good and valuable consideration and sufficiency of which are hereby acknowledged, the sets over to
(6)	Insert <u>Name</u> of Assignae		Fresenius Medical Care Doutschland Gn	
(7)	Insert <u>Address</u> of Assignee	-	of Else-Kroener-Strasse 1, 61352 Bad	
(8)	Insert <u>Legal Entity</u> and <u>State or Country</u> (e.g., a corporation or citizen of Japan)	. (	hereinafter designated as the Achignost the	of Germany
(9)	Insert <u>Identification</u> of Invention, such as Title, Case Number or Foreign Application Number			In the Invention known as MEDICAL FLUID AND MEDICAL CASSETTE
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(10)	Insert <u>Date</u> of signing of Application, or filing date and Serial No., if known	(,,, c	erial No. 121733, 592	on March 10, 2010 (and assigned
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### JACOBSON HOLMAN

PROFESSIONAL LIMITED LIABILITY COMPANY
THE JENIFER BUILDING
400 SEVENTH STREET, N.W.
WASHINGTON, D.C. 20004

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05803.094/9

#### UNITED STATES OF AMERICA - ASSIGNMENT (1-5)Insert Name(s) of Inventors (1)**Goetz GUENTHER** (2)Juergen HAECKER (3)Markus KOEHLER (4)Martin LAUER (5)Ralf MUELLER In consideration of the sum of one dollar (\$1,00), and other good and valuable considerations paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assigns, transfers and sets over to (6) Insert Name of Assignee Fresenlus Medical Care Deutschland GmbH (6)(7) Insert Address of Assignee Else-Kroener-Strasse 1, 61352 Bad Homburg, Germany (7)(8) Insert Legal Entity and State or (8)Corporation Country (e.g., a corporation or (hereinafter designated as the Assignee) the entire right, title and interest for the United States, its citizen of Japan) territories, dependencies and possessions, in the invention known as Insert <u>Identification</u> of Invention, (9)DEVICE AND METHOD FOR TREATING A MEDICAL FLUID AND MEDICAL CASSETTE (9)such as Title, Case Number or Foreign Application Number for which the undersigned has (have) executed an application for patent in the United States of Insert Date of signing of (10)Said application having been filed/executed on March 10,8010 Application, or filing date and (10)Serial No., If known 1) The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing or divisional applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient. 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this or any continuing or divisional applications thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward 3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims provisions of the International Union for Protection of Industrial Property or similar agreements. 4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the 5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents United States resulting from this application or any continuing or divisional applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and 6) Assignor hereby further assigns to Assignee all claims and causes of action for infringement of the patent rights assigned herein, including right to sue for, and collect damages for, any and all acts of past and future infringement. 7) The undersigned hereby grant(s) the law firm of Jacobson Holman PLLC, 400 Seventh Street, N.W., Washington, D.C. 20004, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document. In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s). Date Name of Inventor Goetz GUENTHER (SEAL) typed name signature Date Name of Inventor Juorgen HAECKER (SEAL) typed name signature Date Name of Inventor Markus KOEHLER (SEAL) typed name signature Date Name of Inventor Martin LAUER (SEAL) typed name signature Date Name of Inventor Raif MUELLER (SEAL) typed name This assignment should preferably be signed before a United States Consul if signed abroad, or a Notany Public if domestically signed. If signature not, then the execution by the inventor(s) should be witnessed by at least two witnesses who sign here: Additional inventor's names and Witness

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#### JACOBSON HOLMAN

Witness

PROFESSIONAL LIMITED LIABILITY COMPANY THE JENIFER BUILDING 400 SEVENTH STREET, N.W.

WASHINGTON, D.C. 20004

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signatures on a separate sheet.

03503.09 4/9

#### UNITED STATES OF AMERICA - ASSIGNMENT (1-5) Insert <u>Name(s)</u> of Inventors Goetz GUENTHER (2)Juergen HAECKER (3)Markus KOEHLER (4)Martin LAUER (5)Raif MUELLER In consideration of the sum of one dollar (\$1.00), and other good and valuable considerations paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assigns, transfers and sets over to (6) Insert <u>Name</u> of Assignee Fresenius Medical Care Deutschland GmbH (7) Insert <u>Address</u> of Assignee Else-Kroener-Strasse 1, 61352 Bad Homburg, Germany (7)(8) Insert Legal Entity and State or (8)Country (e.g., a corporation or Germany (hereinafter designated as the Assignee) the entire right, title and interest for the United States, its citizen of Japan) territories, dependencies and possessions, in the invention known as Insert <u>Identification</u> of Invention, (9) DEVICE AND METHOD FOR TREATING A MEDICAL FLUID AND MEDICAL CASSETTE (9) such as Title, Case Number or Foreign Application Number for which the undersigned has (have) executed an application for patent in the United States of (10)Insert Date of signing of Sald application having been filed/excepted on March 10,2010 (and assigned (10)Application, or filing date and Serial No., if known Serial No. 1) The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing or divisional applications and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient. 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this or any continuing or divisional applications thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward 3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with daims provisions of the International Union for Protection of Industrial Property or similar agreements. 4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the 5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents United States resulting from this application or any continuing or divisional applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and 6) Assignor hereby further assigns to Assignee all claims and causes of action for infringement of the patent rights assigned herein, including right to sue for, and collect damages for, any and all acts of past and future infringement. 7) The undersigned hereby grant(s) the law firm of Jacobson Holman PLLC, 400 Seventh Street, N.W., Washington, D.C. 20004, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Tradernark Office for recordation of this document, In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s). Date Name of Inventor Goetz GUENTHER (SEAL) typed name signature Date Vame of Inventor Juergen HAECKER (SEAL) typed name signature Date Name of Inventor \_\_Markus\_KOEHLER (SEAL) typed name signature Date Name of Inventor Martin LAUER (SEAL) typed name signature Date Name of Inventor Ralf MUELLER (SEAL) typed name signature This assignment should preferably be signed before a United States Consul if signed abroad, or a Notary Public if domestically signed. If not, then the execution by the inventor(s) should be witnessed by at least two witnesses who sign here: Additional inventor's names and

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Witness

Witness

#### JACOBSON HOLMAN

PROFESSIONAL LIMITED LIABILITY COMPANY THE JENIFER BUILDING 400 SEVENTH STREET, N.W.

WASHINGTON, D.C. 20004

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signatures on a separate sheet,

SEP.12.2011 3:45PM JACOBSON HOLMAN PLLC NO.531 P.14

## UNITED STATES OF AMERICA - ASSIGNMENT

Separate Sheet For Additional Inventors

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Vale <u>1/// 203-2</u>	Name of Inventor	Hans-Peter SCHNEIDER		(SEAL)
Vale <u>1/// 203-2</u>	Name of Inventor	Hans-Peter SCHNEIDER typed name Tobias WEBER	the undersigned name(s)	_
Date	Name of Inventor	Hans-Peter SCHNEIDER typed name Tobias WEBER typed name		(SEAL)
Date Date	Name of Inventor  Name of Inventor  Name of Inventor	Hans-Peter SCHNEIDER typed name Tobias WEBER typed name Manfred WEIS typed name	signature	_
Date Date	Name of Inventor  Name of Inventor  Name of Inventor	Hans-Peter SCHNEIDER typed name Tobias WEBER typed name Manfred WEIS typed name	signature	(SEAL)
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LAW OFFICES OF

#### JACOBSON HOLMAN

PROFESSIONAL LIMITED LIABILITY COMPANY THE JENIFER BUILDING 400 SEVENTH STREET, N.W. WASHINGTON, D.C. 20004

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# UNITED STATES OF AMERICA - ASSIGNMENT

Separate Sheet For Additional Inventors

on Macch lo 2010	rhose names would not fit on the Assignm (and assigned serial No/2) Names of Additional Inventor	pent form for the application executed/filed
		0
(6)	Hans-Peter SCHNEIDER	
(7)	Tobias WEBER	
(8)	Manfred WEIS	
(9)	###	
(10	)	
(11	)	
(12	)	
Date	typed name	signature (SEAL) signature (SEAL) signature (SEAL)
Date Name	of Inventor	signature
Date Name	typed name of Inventor	signature (SEAL)
Date Name	typed name of Inventor	signature (SEAL)
This assignment should profess	typed name	sed by all least two witnesses who clan have.

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### JACOBSON HOLMAN

PROFESSIONAL LIMITED LIABILITY COMPANY THE JENIFER BUILDING 400 SEVENTH STREET, N.W. WASHINGTON, D.C. 20004

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# UNITED STATES OF AMERICA - ASSIGNMENT

Separate Sheet For Additional Inventors

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Date \( \sigma \)	s whereof, executed by the undersig	ned on the date(s) opposite	the undersigned name(s)	
× 4	Name of Inventor	-Haus-Peter SCHNEIDER		<b></b>
Date	Name of Inventor	typed name Tobias WERER	signature	—_ (SEAL)
Date	80 E 10	IVDed name	agnatur	(SEAL)
	- Adille of Inventor	Manfred WEIS typed name		(SEAL)
Date	Name of Inventor		signature	(OLAL)
Date	Name of Inventor .	typed name	signature	—_ (SEAL)
Date	Name of Inventor .	typed name	signature	(SEAL)
Date	Name of Inventor _	typed name	signature	(SEAL)
		typed name	signature	(SEAL)
I his assign domestically signed	nment should preferably be signed by the interest the interest of the interest	perfore a United States Cons		o delle se
	Witness	rventor(s) should be witnes	sed by anleast two witnesses who	ublic il 3 Sigu pere:
			11/10/	
			- Axer	

LAW OFFICES OF

### JACOBSON HOLMAN

PROFESSIONAL LIMITED LIABILITY COMPANY THE JENIFER BUILDING 400 SEVENTH STREET, N.W. WASHINGTON, D.C. 20004

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**PATENT** REEL: 026893 FRAME: 0052

RECORDED: 09/12/2011