503067128 11/19/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3113731

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

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| ANDREAS MAIERHOFER | 05/11/2009 |
| ALFRED GAGEL | 05/11/2009 |
| MALTE GROSS | 05/11/2009 |
| MICHAEL KOCH | 05/11/2009 |

RECEIVING PARTY DATA

| Name: | FRESENIUS MEDICAL CARE DEUTSCHLAND GMBH |
|-----------------|---|
| Street Address: | ELSE-KROENER-STRASSE 1 |
| City: | BAD HOMBURG |
| State/Country: | GERMANY |
| Postal Code: | 61352 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14542947 |

CORRESPONDENCE DATA

Fax Number: (202)393-5350

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Correspondent Name: JACOBSON HOLMAN HERSHKOVITZ PLLC

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| ATTORNEY DOCKET NUMBER: | P73096US1 |
|-------------------------|---------------------------|
| NAME OF SUBMITTER: | HARVEY B. JACOBSON, JR. |
| SIGNATURE: | /Harvey B. Jacobson, Jr./ |
| DATE SIGNED: | 11/19/2014 |

Total Attachments: 4

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PATENT 503067128 REEL: 034204 FRAME: 0690

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PATENT REEL: 034204 FRAME: 0691

| (1-5) | Insert <u>Name(s)</u> of Inventors | (1) | Andreas MAIERHOFER | | ene kan i sakan mandadakse a meleki |
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| | | (2) | Alfred GAGEL | v.psv/pssvpasvopas vopavos or to construct the construction that construct the construct the construction that construction the construction that co | e kir ole elektronya elektronya elektronya elektronya e |
| | | (3) | Malte GROSS | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| | \$ | (4) | Michael KOCH | | and |
| | | (5) | In consideration of the sum of one dollar (\$1, paid to each of the undersigned, the receipt and s undersigned hereby assigns, transfers and sets | 00), and other good and valuable c ufficiency of which are hereby ackno | onsiderations |
| (6) | Insert Name of Assignee | (6) | Fresenius Medical Care Deutschland GmbH | | andrija sa najega ka njeka na njeka ka najek |
| (7) | Insert <u>Address</u> of Assignee | (7) | of Else-Kroener-Strasse 1, 61352 Bad Hom | burg, Germany | arrajšis režajas rikas reviķa araze |
| (8) | Insert <u>Legal Entity</u> and <u>State or</u> <u>Country</u> (e.g., a corporation or citizen of Japan) | | a Corporation (hereinafter designated as the Assignee) the enti- territories, dependencies and possessions, in th | | ted States, its |
| (9) | Insert <u>Identification</u> of Invention, such as Title, Case Number or | (9) | DIALYSIS MACHINE AND METHOD FOR DET | ERMINING THE FURRING IN A | ekinneki unanekinneki unaekina |
| | Foreign Application Number | | DIALYSIS MACHINE for which the undersigned has (have) executed a | an application for patent in the Unit | ed States of |
| (10) | Insert <u>Date</u> of signing of Application, or filing date and | (10) | Said application having been filed/executed on | ~ | and assigned |
| | Serial No., if known | | Serial No. Il papers necessary in connection with this applica | ,) • | |
| United S and her will not o right to 20004, t | ns of the International Union for F 4) The undersigned agree(s) to 5) The undersigned hereby autistates resulting from this applicable aby covenants that he has (they I execute any agreement in conflict 6) Assignor hereby further assigned for, and collect damages for, 7) The undersigned hereby grates | Protection perform perform notize(s) on or any have) full therewith ns to Asse, any and nt(s) the ment any | ignee all claims and causes of action for infringeme all acts of past and future infringement. aw firm of Jacobson Holman PLLC, 400 Sevent further identification which may be necessary or | tain a grant of a valid United States Trademarks to issue any and all Le said Assignee, as Assignee of the e d, and that he has (they have) not e ent of the patent rights assigned her th Street, N.W., Washington, D.C. | patent to the sters Patents intire interest, executed, and rein, including |
| | n witness whereof, executed by the | he under | igned on the date(s) opposite the undersigned n | sme(s)/ b / 1 / | The state of the s |
| Date _ | 17.4.09 Na | me of inv | entor Andreas MAIERHOFER typed name | At J. J. V. Marcan L. J. Signature | Z-Z-(SEAL) |
| Date | (/kay) | me of inv | entor Alfred GAGEL typed name | signature | (SEAL) |
| Date _ | Na | me of Inv | entor Malte GROSS typed name | signature | (SEAL) |
| Date _ | Na | me of Inv | entor Michael KOCH typed name | signature | (SEAL) |
| Date | Na: | me of Inv | · · · · · · · · · · · · · · · · · · · | signature | (SEAL) |
| not, ther | This assignment should preferate the execution by the inventor(s) | oly be sig should b | ned before a United States Consul if signed abro e witnessed by at least two witnesses who sign h | ad, or a Notary Public If domestical | ly signed. If |
| · | fitional inventor's names and natures on a separate sheet. | | Witness Witness | <u> </u> | |
| | | | 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)

PATENT REEL: 034204 FRAME: 0692

| (1-5) | Insert Name(s) of Inventors | (1) | Andreas MAIER | IOFER | terna artikoa artikoa artika artika artika | Lijopy Lysseldovice observatele od observate | |
|--|--|--|---|--|--|---|---|
| | | (2) | Alfred GAGEL | | *************************************** | en page a necessaria de la companio | ra i distribuità di tracci della collègica di secolo di approcesso di |
| | | (3) | Maite GROSS | angane anna area de desenvoltantes especiales de la compansión de la compa | eenanegaanegaanegaanegaanega | | kandasaa diki di madaa nakiba dasaa maganiyy |
| | | (4) | Michael KOCH | | enangan manananan menangan me | ang paggan sa kanada ka | ikwanaannakaani, and |
| | | (5) | In consideratio | n of the sum of one | dollar (\$1.00), a eceipt and sufficie | nd other good and value | sable considerations |
| (6) | Insert Name of Assignee | (6) | Fresenius Medic | al Care Deutschia | nd GmbH | , where it is a recommendation and the supplementation of the state of the supplementation | n open met oppening om en nyeren met met det en noore en nyeren met |
| (7) | Insert <u>Address</u> of Assignee | (7) | of Else-Kroens | r-Strasse 1, 61352 | 2 Bad Homburg, | Germany | |
| (8) | Insert <u>Legal Entity</u> and <u>State</u> <u>Country</u> (e.g., a corporation citizen of Japan) | | a Corporation (hereinafter design territories, depend | | lee) the entire rigr | Germany nt, title and interest for t intion known as | he United States, its |
| (9) | Insert Identification of Invention | | | | | NING THE FURRING I | IN A |
| , | such as Title, Case Number Foreign Application Number | or `` ·` | DIALYSIS MACH | an annual an | executed an ap | olication for patent in th | ne United States of |
| (10) | Insert <u>Date</u> of signing Application, or filing date as | of nd (10) | | aving been filed/ex | | · · | (and assigned |
| | Serial No., if known | | Serial No} all papers necessary in connection with this application and any continuing or divisional ap | | | | |
| and here will not e right to 20004, to | 4) The undersigned agree(s) 5) The undersigned hereby attates resulting from this applicably covenants that he has (the execute any agreement in config. 6) Assignor hereby further assigned for, and collect damages for. 7) The undersigned hereby give power to insert on this assigner. | uthorize(s) ation or any y have) full lict herewith ligns to Ass or, any and rant(s) the | and request(s) the continuing or division that to convey the had a convey that a convey the firm of Jacobs or further identification. | Commissioner of Panal applications the entire interest here causes of action for future infringements Holman PLLC, in which may be ne | atents and Trade ereof to the said A lin assigned, and x infringement of it. 400 Seventh Stre | marks to Issue any and assignee, as Assignee of that he has (they have the patent rights assign at, N.W., Washington, | d all Letters Patents of the entire interest, e) not executed, and ned herein, including , D.C. |
| | itates Patent and Trademark C witness whereof, executed by | | | | erelaned namele | ١ | |
| Date | | | signed on the date; ventor Andreas & | | arsigned nameto | <i>p</i> . | (SEAL) |
| Date | 11.05.2009 | | | typed name | | Mich Vare | (SEAL) |
| , | enterprise en la contrata de la contrata del contrata del contrata de la contrata del contrata de la contrata del contrata de la contrata del contrata de la contrata del contrata de la contrata del contrata del contrata de la contrata del cont | | | typed name | | signature | (DCAL) |
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| Date | , , , , , , , , , , , , , , , , , , , | lame of Inv | entor Michael K | DCH typed name | | signature | (SEAL) |
| Date | ٨ | lame of Inv | entor | typed name | | signature | (SEAL) |
| not, then | This assignment should prefer the execution by the inventor(litional inventor's names and | rably be sig s) should b | ned before a United se witnessed by at li Witness | d States Consul if s east two witnesses | ilgned abroad, or who sign here: | a Notary Public if dom | estically signed. If |
| sigr | iatures on a separate sheet. | | Witness | V | TG/sta | | |
| | | | | | ~ | | |

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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)

PATENT REEL: 034204 FRAME: 0693

| (1-5) | Insert Name(s) of Inventors | (1) | Andreas MAIERHOFER | |
|---|--|---|--|--|
| | | (2) | Alfred GAGEL | |
| | | (3) | Malte GROSS | |
| | | (4) | Michael KOCH | and |
| | | (5) | | 93cm) can san san san san san san san san san s |
| | | (0) | in consideration of the sum of one dollar (\$1 paid to each of the undersigned, the receipt and undersigned hereby assigns, transfers and sets | .00), and other good and valuable considerations sufficiency of which are hereby acknowledged, the over to |
| (6) | Insert <u>Name</u> of Assignee | (6) | Fresenius Medical Care Deutschland GmbH | |
| (7) | Insert <u>Address</u> of Assignee | (7) | of Else-Kroener-Strasse 1, 61352 Bad Hon | iburg, Germany |
| (8) | Insert Legal Entity and State or | (8) | a Corporation | of Germany |
| | Country (e.g., a corporation or citizen of Japan) | | (hereinafter designated as the Assignee) the enternitories, dependencies and possessions, in the | tire right, title and interest for the United States, its |
| (9) | Insert <u>Identification</u> of Invention, such as Title, Case Number or | (9) | DIALYSIS MACHINE AND METHOD FOR DET | ERMINING THE FURRING IN A |
| | Foreign Application Number | | DIALYSIS MACHINE | |
| | | | for which the undersigned has (have) executed | an application for patent in the United States of |
| (10) | Insert <u>Date</u> of signing of Application, or filing date and | (10) | Said application having been filed/sessuited on | (and assigned |
| | Serial No., if known | | Serial No. all papers necessary in connection with this application. | ,) |
| provision United S and here will not e right to 20004, ti | ns of the International Union for P. 4) The undersigned agree(s) to p. 5) The undersigned hereby authoritates resulting from this application between the conflict and agreement in conflict. 6) Assignor hereby further assign sue for, and collect damages for, 7) The undersigned hereby granthe power to insert on this assignmitates Patent and Trademark Office. | rotectic perform odze(s) n or any ave) fu herewl is to As any an t(s) the nent any e for re | signee all claims and causes of action for infringem d all acts of past and future infringement. law firm of Jacobson Holman PLLC, 400 Seven y further identification which may be necessary or scordation of this document. | tain a grant of a valid United States patent to the Trademarks to Issue any and all Letters Patents said Assignee, as Assignee of the entire interest, d, and that he has (they have) not executed, and ent of the patent rights assigned herein, including th Street, N.W., Washington, D.C. desirable in order to comply with the rules of the |
| ir | | | rsigned on the date(s) opposite the undersigned n | ame(s). |
| Date | Nan | ne of In | ventor Andreas MAIERHOFER | (SEAL) |
| Date | k! | .n es i- | typed name ventor Alfred GAGEL | signature (SEAL) |
| mare | | 18 01 111 | typed name | 1 /signaturs |
| Date | 11.5.0° Nam | ne of In | ventor Malte GROSS | (M, W_S (SEAL) |
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| | | | gned before a United States Consul If signed abro | |
| not, then | the execution by the inventor(s) s | should | be witnessed by at least two witnessas who sign i | nere: |
| Add | itional inventor's names and | | Witness 77/10 | <u> </u> |
| sign | atures on a separate sheet. | | Witness A. C. Mesc | Mole |
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| | ž. | | LAW OFFICES OF | <u>C</u> |

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PROFESSIONAL LIMITED LIABILITY COMPANY
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WASHINGTON, D.C. 20004

JH 5/01 (Copying without deletions permitted)

| (1-5) | Insert Name(s) of Inventors | (1) | Andreas MAIERH | OFER | rigan e digitale com a porta a | ******************************** |
|------------------------------------|--|---|---|---|--|--|
| | | (2) | Alfred GAGEL | *************************************** | *************************************** | |
| | | (3) | Maite GROSS | | | |
| | | (4) | Michael KOCH | | yanny paningan-tapan-tapan-taban taban taban taban taban taban taban | and |
| | | • • | In consideration | n of the sum of one dollar (\$1.0 undersigned, the receipt and si y assigns, transfers and sets | 00), and other good and va ufficiency of which are here | luable considerations |
| (6) | Insert <u>Name</u> of Assignee | (6) | Fresenius Medic | al Care Deutschland GmbH | in oppolija oprovinsko provinsko se ili je ukraja i kalaja i kalaja i kalaja i kalaja i kalaja i kalaja i kala | engymen allanga an an an aithe à golden e aighte a lang praide ghe |
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| | Country (e.g., a corporation of Japan) | | (hereinafter design | ated as the Assignee) the enti- encles and possessions, in the | re right, title and interest for | the United States, its |
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| provisio United 5 and her will not | sh Interference. 3) The undersigned agree(s) to no of the International Union for 4) The undersigned agree(s) to 5) The undersigned hereby autisties resulting from this applicate by covenants that he has (they execute any agreement in conflict). Assignor hereby further assigned for, and collect damages for | Protection perform thorize(s) ion or any have) full therewith gas to Asser, any and | n of Industrial Prope all affirmative acts wand request(s) the Concentruing or division in dight to convey the h. signee all claims and in all acts of past and | rty or similar agreements. which may be necessary to obto commissioner of Patents and nal applications thereof to the sentire interest herein assigned causes of action for infringement. | ain a grant of a valid Unite Trademarks to Issue any a sald Assignee, as Assignee I, and that he has (they har ant of the patent rights assig | d States patent to the nd all Letters Patents of the entire interest, we) not executed, and gned herein, including |
| | 7) The understaned hereby are | int(s) the | law firm of Jacobso | n Holman PLLC, 400 Sevent | h Street, N.W., Washingto | n, D.C. |
| United 5 | he power to insert on this assign States Patent and Trademark Off | fice for re | cordation of this doc | ument. | | y with the rules of the |
| li | n witness whereof, executed by t | | | | ame(s). | |
| Date | Ne | ame of In | ventor Andreas M | AIERHOFER typed name | slanature | (SEAL) |
| Data | Nie. | ama of in | ventor Alfred GAC | | · · | (SEAL) |
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| not, ther | This assignment should prefera the execution by the inventor(s | ibly be sig) should b | oe witnessed by at le | States Consul if signed abroa | ad, or a Notary Public if do | mestically signed. If |
| bacani . | titional inventor's names and | | Witness | | fee | |
| sigi | natures on a separate sheet. | | Witness | 796 | * | |

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PROFESSIONAL LIMITED LIABILITY COMPANY
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