

05-24-2006

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

To the Honorable Director of PTO

original documents or copy thereof.

## 1. Name of Conveying party(ies)

Yukihiko UCHI  
Makoto FUKUDA  
Satoshi UEZUMI  
Hidetoshi HIDAKA  
Takayasu FUJIMURA

103242977

Receiving party(ies)

Name: ASAHI KASEI MEDICAL CO., LTD.

Internal Address: \_\_\_\_\_

Street Address: 9-1, Kanda Mitoshicho, Chiyoda-ku, Tokyo 101-8482,  
Japan

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

Additional names(s) and address(es) attached? ☐ Yes ☒ NoAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_Execution Date: Apr. 7, Apr. 10, 2006, Oct. 24, Oct. 24, Oct. 28,  
2005

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

## A. Patent Application No.(s)

10/553,950

## B. Patent No.(s)

Additional numbers attached: ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Bruce H. BernsteinInternal Address: P28510Street Address: GREENBLUM & BERNSTEIN, P.L.C.1950 Roland Clarke PlaceCity: Reston State: VA ZIP: 201916. Total number of applications and patents involved: 17. Total Fee (37CFR 3.41) \$40.00☒ Enclosed☐ Authorized to be charged to deposit account

## 8. Deposit account number:

19-0089

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Bruce H. Bernstein, Reg. No. 29,027

Name of Person Signing

Leslie J. Paperner  
Reg. #33329

Signature

Date

Total number of pages including cover sheet, attachments and document: 4Mail documents to be recorded with required cover sheet information to:  
Director of the United States Patent and Trademark Office, Mail Stop Assignments Recordation Services  
U.S. Patent and Trademark Office  
Customer Service Window  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314

PATENT

REEL: 017895 FRAME: 0845

5/19/06 10553950 40.00 01 FC-8021 05/23/2006 MTRM1

ASSIGNMENT

WHEREAS, **Yukihiko UCHI**, a citizen of Japan, whose post office address is 140-1-210, Nakamaru, Fuji-shi, Shizuoka 146-0933, Japan, **Makoto FUKUDA**, a citizen of Japan, whose post office address is 4051-205, Oaza Sano, Oita-shi, Oita 870-0396, Japan, **Satoshi UEZUMI**, a citizen of Japan, whose post office address is 2288-22, Oaza Joharu, Oita-shi, Oita 870-0267, Japan, **Hidetoshi HIDAKA**, a citizen of Japan, whose post office address is Gureisunibankan 401, 2-8-6, Yokota, Oita-shi Oita 870-0263, Japan, and **Takayasu FUJIMURA**, a citizen of Japan, whose post office address is 134-1- B201, Kawanarijima, Fuji-shi, Shizuoka 416-0939, Japan, hereinafter referred to as the ASSIGNORS, have invented a certain improvement relating to

**Hollow Fiber Membrane Type Fluid Treatment Device**

for which they have executed, on the same date as this assignment, an application for Letters Patent for the United States which was filed in the United States Patent and Trademark Office on October 21, 2005, which Application is a National Stage of International Application No. PCT/JP2004/005870, filed April 23, 2004.

If this Assignment is filed after the filing date of the above-identified application, the undersigned hereby authorize and request any one of the attorneys of record in this application including Neil F. Greenblum, Reg. No. 28,394, Bruce H. Bernstein, Reg. No. 29,027, Arnold Turk, Reg. No. 33,094, James L. Rowland, Reg. No. 32,674, Stephen M. Roylance, Reg. No. 31,296, Leslie J. Paperner, Reg. No. 33,329, William Pieprz, Reg. No. 33,630, Robert W. Mueller, Reg. No. 35,043 and William E. Lyddane, Reg. No. 41,568, of the firm Greenblum & Bernstein, P.L.C., whose address is 1950 Roland Clarke Place, Reston, Virginia 20191, to insert here in parenthesis (Application No. 10/553,950, filed October 21, 2005 ) the filing date and application number of said application when known.

AND WHEREAS, **ASAHI KASEI MEDICAL CO., LTD.**, a corporation organized and existing under the laws of Japan, whose post-office address is 9-1, Kanda Mitoshirocho, Chiyoda-ku, Tokyo 101-8482, Japan, hereinafter known as the ASSIGNEE, is desirous of acquiring the entire right, title and interest for the United States in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, and prolongations thereof.

NOW, THIS WITNESSETH that for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt whereof is hereby acknowledged, said ASSIGNORS hereby assign, sell and transfer to said ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application, for the United States including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, said ASSIGNEE and its assigns and legal representatives to have, hold, exercise and enjoy the said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges, and advantages in any ways arising from or pertaining thereto, for and during the term or terms of any and all such

**PATENT****REEL: 017895 FRAME: 0846**

Letters Patent when granted, including any and all renewals, reissues, and prolongations thereof, for the use and benefit of said ASSIGNEE and its assigns and legal representatives in as ample and beneficial a manner to all intents and purposes as the said ASSIGNORS might or could have held and enjoyed the same, if this assignment had not been made.

AND said ASSIGNORS hereby agree to execute all papers necessary to file applications in the United States for said invention and to assign the same to said ASSIGNEE, or any assignee acquiring title to said invention, and to execute any other papers that may be needed in connection with filing said application and securing Letters Patent thereon.

AND said ASSIGNORS authorize and request the Commissioner of Patents to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said ASSIGNEE, its assigns and legal representatives, in accordance herewith.

IN TESTIMONY WHEREOF, this assignment is executed on the date(s) indicated below.

First Witness:

(Name) Shigeo Takasao

(Date) 7th April 2006

Yukihiko Uchi 7th April 2006  
Yukihiko UCHI Date 7 April 2006

Second Witness:

(Name) Takeshi Araki

(Date) 7th April 2006

First Witness:

(Name) Susumu Kojima

(Date) 12th April 2006

Makoto Fukuda 10 April 2006  
Makoto FUKUDA Date

Second Witness:

(Name) Toshinori Koizumi

(Date) 12th April 2006

First Witness:

---

(Name)

---

(Date)

Satoshi Uezumi 24. Oct. 2005  
**Satoshi UEZUMI** **Date**

Second Witness:

---

(Name)

---

(Date)

First Witness:

---

(Name)

---

(Date)

Hidetoshi Hidaka 24. Oct. 2005  
**Hidetoshi HIDAKA** **Date**

Second Witness:

---

(Name)

---

(Date)

First Witness:

---

(Name)

---

(Date)

Takayasu Fujimura 28. Oct. 2005  
**Takayasu FUJIMURA** **Date**

Second Witness:

---

(Name)

---

(Date)