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1-31-92



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1. Name of conveying party(ies):

1) Atsushi OOMA 2) Yasuji OGAMI 3) Michio HORI
4) Masanori KOBAYASHI 5) Yuu OOTANI

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies):

Name: KABUSHIKI KAISHA TOSHIBA
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Tokyo 105-8001, JAPAN

Additional name(s) and address(es) attached? Yes No

JCS997 U.S. PTO
10/396487
03/26/03

3. Nature of Conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: 3-13-03, 3-13-03, 3-13-03,
3-7-03, 3-7-03

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: 3-13-03-, 3-13-03, 3-13-03, 3-7-03, 3-7-03

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

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



22850

Tel. (703) 413-3000
Fax. (703) 413-2220

6. Total applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

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Eckhard H. Kuesters
Name of Person
Registration No. 28,870

Eckhard H. Kuesters
Signature

3-26-03
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Registration No. 28,870

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PATENT
REEL: 013915 FRAME: 0313

ASSIGNMENT

(01S1248P1)

In consideration of value received, I, having a residence as stated below above my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

SEPARATOR FOR FUEL CELL, PRODUCTION PROCESS THEREOF, AND SOLID POLYMER FUEL CELL USING THE SEPARATOR

sell and assign to

KABUSHIKI KAISHA TOSHIBA, a Japanese corporation, having a place of business at 1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan,

their successors, and assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said United States patent application:

(check one) executed concurrently herewith;
 executed on _____ ;
 Application No. _____ , filed _____ ;

and in and to all applications for patent and patents for invention including all divisions, reissues, continuations, substitutes and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, continued prosecution, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention.

I hereby grant the following law firm 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 U.S. Patent and Trademark Office for recordation of this document.

ASSIGNMENT

(01S1248P1)

[1st Inventor]

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Residence Address: Yokohama-shi, Japan

Country of Citizenship: Japan

Atsushi Ooma

Atsushi Ooma

MAR. 13. 2003

Date:

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Yasuji Ogami

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Date:

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Michio Hori

Michio Hori

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Country of Citizenship: Japan

Masanori Kobayashi

Date:

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[5th Inventor]

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Residence Address: Tokyo, Japan

Country of Citizenship: Japan

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Date:

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1940 Duke Street,
Alexandria, Virginia 22314

PATENT
REEL: 013915 FRAME: 0316

ASSIGNMENT

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In consideration of value received, I, having a residence as stated below above my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

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their successors, and assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said United States patent application:

(check one) executed concurrently herewith;
 executed on _____ ;
 Application No. _____ , filed _____ ;

and in and to all applications for patent and patents for invention including all divisions, reissues, continuations, substitutes and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, continued prosecution, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention.

I hereby grant the following law firm 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 U.S. Patent and Trademark Office for recordation of this document.

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Atsushi Ooma

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Residence Address: Yokohama-shi, Japan

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Yasuji Ogami

Date:

[3rd Inventor]

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Masanori Kobayashi

Masanori Kobayashi

MAR. - 7. 2003

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(01S1248P1)

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Date:

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