

RE 3/21/01

FORM PTO-1595

(Rev. 6-93)

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04-05-2001

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OMB No. 0651-0011 (exp. 4/94)

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1. Name of conveying party(ies):

Yasushi FUKUI,
Masanori MATSUNO and
Minoru SAITO

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other corrective Assignment to correct address of assignee
on Reel/Frame 010798/0727

Execution Date: December 7, 1999

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) 09/529,146 filed 4/07/00

Serial No. 09/530,437 filed April 28, 2000

Additional numbers attached? Yes No

2. Name and address of receiving party(ies)

Name Nisshin Steel Co., Ltd;

Street Address: 4-1, Marunouchi 3-chome, Chiyoda-ku

City: Tokyo 100-8366

Country: Japan

Additional name(s) & address(es) attached? YES

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

Name: Russell D. Orkin
 Internal Address: Webb Ziesenheim Logsdon
Orkin & Hanson, P.C.
 Street Address: 700 Koppers Building
436 Seventh Avenue
 City: Pittsburgh State: PA ZIP: 15219-1818

6. Total number of applications and patents involved:

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

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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.

Blynn L. Shideler, Reg. 35,034
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Blynn L. Shideler
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PATENT
REEL: 011649 FRAME: 0987

PATENTS ONLY

2. Toyota Jidosha Kabushiki Kaisha
1, Toyota-cho, Toyota-shi
Aichi-ken 471-8571
JAPAN

12581.40

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05-24-2000



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FORM PTO-1595

(Rev. 6-93)

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04/07/00

1. Name of conveying party(ies):

Yasushi FUKUI, Masanori MATSUNO and Minoru SAITO

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

3. Nature of conveyance:

- Assignment, Merger, Security Agreement, Change of Name, Other

Execution Date: December 7, 1999

2. Name and address of receiving party(ies)

Name: NISSHIN STEEL CO., LTD. and

TOYOTA JIDOSHA KABUSHIKI KAISHA, respectively

Internal Address:

Street Address: 4-1, Marunouchi 3-chome,

Chiyoda-ku, Tokyo 100-8366, Japan and

1, Toyota-cho, Toyota-shi, Aichi-ken 471-8572

Japan; respectively

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

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: December 7, 1999

A. Patent Application No. (s)

B. Patent No. (s)

09/529140

Additional numbers attached? Yes No

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

Name: Russell D. Orkin

Internal Address: Webb Ziesenheim Logsdon

Orkin & Hanson, P.C.

Street Address: 700 Koppers Building

436 Seventh Avenue

City: Pittsburgh State: PA ZIP: 15219-1818

6. Total number of applications and patents involved: 1

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

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Russell D. Orkin Name of Person Signing Reg. No. 25,363

Signature

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PATENT REEL: 011649 FRAME: 0989

ASSIGNMENT DEED

This assignment is applicable to an invention entitled (Invention Title) A Separator of a Low-Temperature Fuel Cell and Manufacturing Method Thereof.

The PATENT RIGHTS referred to in this agreement are:

(check one) a patent application for this invention, executed by the ASSIGNOR(S) concurrently with this agreement.

U.S. Patent application Serial No. _____, issued _____.

a U.S. Patent application based on PCT International Application No. PCT/JP98/04607 filed on (date) 13.10.1998 (U.S. patent application serial No. _____, if known).

The PATENT RIGHTS also include all divisions, reissues, continuations and extensions of the patents and patent applications identified above.

The PATENT RIGHTS assigned under this agreement are:

(check one) U.S. patent rights only.

worldwide patent rights. In this case, the assignee shall have the right to claim the benefit of the filing date of any U.S. patent application identified above.

The ASSIGNOR(S) referred to in this agreement is (or are):

(Full name of sole or first inventor) Yasushi FUKUI

(Address) c/o Steel & Technology Development Laboratories, Nisshin Steel Co., Ltd., 5, Ishizu-Nishimachi, Sakai-shi, Osaka 592-8332 Japan

(Full name of second joint inventor, if any) Masanori MATSUNO

(Address) c/o Steel & Technology Development Laboratories, Nisshin Steel Co., Ltd., 5, Ishizu-Nishimachi, Sakai-shi, Osaka 592-8332 Japan

(Full name of third joint inventor, if any) Minoru SAITO

(Address) c/o Steel & Technology Development Laboratories, Nisshin Steel Co., Ltd., 5, Ishizu-Nishimachi, Sakai-shi, Osaka 592-8332 Japan

The ASSIGNEES referred to in this agreement are:

I. (Name of First Assignee) Nisshin Steel Co., Ltd.

(Address of Assignee) 4-1, Marunouchi 3-chome, Chiyoda-ku, Tokyo 100-8366 Japan

The first ASSIGNEE is:

(check one) An individual.

A Partnership.

A Corporation of Japan.

(state or country)

II. (Name of Second Assignee) Toyota Jidosha Kabushiki Kaisha

(Address of Assignee) 1, Toyota-cho, Toyota-shi, Aichi-ken 471-8571 Japan

The second ASSIGNEE is:

(check one) An individual.

A Partnership.

A Corporation of Japan.

(state or country)

The ASSIGNOR(S), in consideration of \$1.00 paid by the ASSIGNEE, and other good and

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valuable consideration, receipt of which is acknowledged, have and do hereby assign the following rights to the ASSIGNEE, its successors and assigns:

the full and exclusive right to the invention;

the entire right, title and interest in and to the PATENT RIGHTS;

the right to sue and recover for any past infringement; and

the right to claim priority under 35 USC 119, based on any earlier foreign applications for this invention.

As to all U.S. patent applications assigned under this agreement, the ASSIGNOR(S) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue all Letters Patent to the ASSIGNEE as the assignee of the entire right, title and interest, for the sole use and enjoyment of said ASSIGNEE, its successors and assigns.

Further, the ASSIGNOR(S) agree(s) to communicate to said ASSIGNEE, or its representatives, any facts known to the ASSIGNOR(S) respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be issued to said ASSIGNEE, make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention.

J. Fujii

(Signature of sole or first inventor)

7 12 1999

(Date)

Masanori Matsuno

(Signature of second inventor)

7 12 1999

(Date)

Kinoru Saito

(Signature of third inventor)

7 12 1999

(Date)

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