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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Attorney Docket No. 110389

To the Director of the U.S. Patent and Trademark Office: Please record the attached original document or copy thereof.

1. A. Name of conveying parties:

- (1) Takashi SHIMAZU
(2) Satoshi IGUCHI
(3) Satoshi AOYAMA
(4) Koichi NUMATA
(5) Kazuhisa KUNITAKE
(6) Takeshi NISHIKAWA
(7) Shuichi KUBO
(8) Satoshi YAMAZAKI

B. Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. A. Name and address of receiving party:

TOYOTA JIDOSHA KABUSHIKI KAISHA
1, TOYOTA-CHO, TOYOTA-SHI,
AICHI-KEN, 471-8571 JAPAN

B. Additional name(s) & address(es) attached?

☐ Yes ☒ No

3. A. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

B. Execution Date: (1-4 & 6) July 31, 2001

(5) August 10, 2001 (7-8) August 30, 2001

4. A. If this document is being filed together with a new application, the execution date of the application is: _____

B. Patent Application No.(s) 09/930,989

C. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

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

Name: James A. Oliff

Address: **OLIFF & BERRIDGE, PLC**
P.O. Box 19928
Alexandria, VA 22320

6. Total number of applications and patents involved: 1

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

B. Enclosed (Check No. 124698)

8. Credit any overpayment or charge any underpayment to deposit account number 15-0461.

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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.

Date: November 9, 2001

James A. Oliff Registration No. 27,075
Joel S. Armstrong Registration No. 36,430

Total number of pages including cover sheet, attachments, and document: 3

PATENT APPLICATION ASSIGNMENT
SOLE OR JOINT INVENTORS
EXECUTED OUTSIDE U.S.A.

WHEREAS, I (We) Takashi Shimazu, Satoshi Iguchi, Satoshi Aoyama, Koichi Numata, Kazuhisa Kunitake, Takeshi Nishikawa, Shuichi Kubo and Satoshi Yamazaki as assignor(s), have invented certain improvements in "FUEL REFORMING APPARATUS" for which an application for United States Letters patent has been executed by me (us) of even date herewith; and

WHEREAS, TOYOTA JIDOSHA KABUSHIKI KAISHA of 1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571 Japan as assignee, is desirous of acquiring all right, title and interest in and to said invention and any Patent that may be granted therefor.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, I (We), as assignor(s), hereby sell, assign and set over to said assignee the entire right, title and interest for the United States and all other countries in and to said invention and the aforesaid application for Patent, all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States and all other countries, including all rights of priority from the filing of said application, and all rights for past infringement, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said inventions or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for myself (ourselves) and my (our) legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, reissue and other applications for Patent on said inventions and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said inventions, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to assist assignee, its successors, assigns and nominees to obtain patent protection for said invention in the United States and all other countries, the expenses incident to said applications to be borne and paid by said assignee.

The undersigned hereby grant(s) the law firm of OLIFF & BERRIDGE, the power to insert here in parentheses (Application No. _____, filed _____) the filing date and application number of said application when known.

Date: '01.31 July

Takashi Shimazu
Takashi Shimazu

Date: '01.31 July

Satoshi Iguchi
Satoshi Iguchi

Date: 01.31 July

Satoshi Aoyama
Satoshi Aoyama

Date: 01.31. July

Koichi Numata
Koichi Numata

01.10 August

Kazuhisa Kunitake

Date: ~~01.31. July~~

~~Koichi Numata~~
Kazuhisa Kunitake

01.31 July

Date: ~~01.31 July~~

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Takeshi Nishikawa
Takeshi Nishikawa

Date: August 30, 2001

Shuichi Kubo
Shuichi Kubo

Date: August 30, 2001

Satoshi Yamazaki
Satoshi Yamazaki