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Assistant Commissioner for Patents
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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

100865138

Attorney Docket No. 101864

MRO 10-22-98

To the Assistant Commissioner for Patents: Please record the attached original document or copy thereof.

1. A. Name of conveying party(ies):
Hiroshi HIRAYAMA
Takaaki KANAZAWA
Kazuhiro SAKURAI

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

2. A. Name and address of receiving party(ies):
TOYOTA JIDOSHA KABUSHIKI KAISHA
1, TOYOTA-CHO, TOYOTA-SHI
AICHI-KEN, 471-8571 JAPAN

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

j-c-523 U.S. PTO
09/177128
10/22/98

3. A. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

B. Execution Date: October 16, 1998

4. A. If this document is being filed together with a new application, the execution date of the application is: October 16, 1998.

B. Patent Application No.(s)
09/177128

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 ^E
B. Enclosed (Check No. 9192)

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

10/30/1998 INVOYEN 00000014 09177128
01 FC:581 40.00 EP

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.

[Signature] Date: October 22, 1998
James A. Oliff Registration No. 27,075
Stuart I. Smith Registration No. 42,159

Total number of pages including cover sheet, attachments, and document: 2

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PATENT
REEL: 9542 FRAME: 0634

ASSIGNMENT

(1-8) Insert Name(s) of Inventor(s) (1) Hiroshi HIRAYAMA (5) (2) Takaaki KANAZAWA (6) (3) Kazuhiro SAKURAI (7) and (4) (8)

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(9) Insert Name of Assignee (9) TOYOTA JIDOSHA KABUSHIKI KAISHA (10) Insert Address of Assignee (10) 1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571, Japan

(hereinafter designated as the Assignee) the entire right, title and interest for the United States, its territories, dependencies and possessions, in the invention, and all applications for patent and any Letters Patent which may be granted therefor, known as

(11) Insert Identification, such as Title, Case Number or Foreign Application Number (11) HYDROCARBON-ADSORBENT (Case No. 101864)

for which the undersigned has (have) executed an application for patent in the United States of America

(12) Insert Date of Signing of Application (12) on October 16, 1998

(13) Alternative Identification for filed applications (13) U.S. application Serial Number filed October 22, 1998

1) The undersigned agree(s) to execute all papers necessary in connection with the application and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreements in conflict herewith.

6) The undersigned hereby grant(s) the firm of OLIFF & BERRIDGE 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 United States Patent and Trademark Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date October 16, 1998 Name of Inventor Hiroshi Hirayama Hiroshi HIRAYAMA (SEAL) Date October 16, 1998 Name of Inventor Takaaki Kanazawa Takaaki KANAZAWA (SEAL) Date October 16, 1998 Name of Inventor Kazuhiro Sakurai Kazuhiro SAKURAI (SEAL) Date Name of Inventor (SEAL) Date Name of Inventor (SEAL) Date Name of Inventor (SEAL) Date Name of Inventor (SEAL) Date Name of Inventor (SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date October 16, 1998 Witness Naoto Miyoshi Date October 16, 1998 Witness Junio Sanji