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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

- 1) Toshifumi HIRATSUKA
- 2) Norihiro SHINOTSUKA
- 3) Osamu KURODA
- 4) Yuichi KITAHARA
- 5) Takeshi INOUE
- 6) Ryouta DOI
- 7) Hidehiro IIZUKA

01/21/03

2. Name and address of receiving party(ies)

Name: **Hitachi, Ltd.**
6, Kanda Surugadai 4-chome
Chiyoda-ku, Tokyo, Japan

Hitachi Car Engineering Co., Ltd.
2477, Takaba
Hitachinaka-shi, Ibaraki, Japan

1000 U.S. PTO
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Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

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

☐ Yes ☒ No

3. Nature of Conveyance:

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

Execution Date: **January 8, 2003**

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)

==

B. Patent No(s).

Additional numbers attached?

☐ Yes ☒ No

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

CROWELL & MORING, L.L.P.
Intellectual Property Group
P.O. Box 14300
Washington, D.C. 20044-4300

6. Total number of applications and patents involved: **one**

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.

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 Kening Li, Ph.D.
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January 21, 2003
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PATENT
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ASSIGNMENT

(譲渡証)

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to Toshifumi HIRATSUKA, Norihiro SHINOTSUKA, Osamu KURODA, Yuichi KITAHARA, Takeshi INOUE, Ryouta DOI and Hidehiro IIZUKA,

citizens of Japan by Hitachi, Ltd. and Hitachi Car Engineering Co., Ltd., corporations organized under the laws of Japan, located at 8, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan, and 2477, Takaba, Hitachinaka-shi, Ibaraki, Japan, respectively,

receipt of which is hereby acknowledged, we, the said Toshifumi HIRATSUKA, Norihiro SHINOTSUKA, Osamu KURODA, Yuichi KITAHARA, Takeshi INOUE, Ryouta DOI and Hidehiro IIZUKA, do hereby sell and assign to said Hitachi, Ltd. and Hitachi Car Engineering Co., Ltd.,

their successors and assigns, all our right, title and interest, in and for the United States of America, in and to

MOISTURE REMOVAL DEVICE AND METHOD THEREOF FOR INTERNAL COMBUSTION ENGINE USE EXHAUST GAS CLEANING DEVICE

invented by us and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said Hitachi, Ltd. and Hitachi Car Engineering Co., Ltd.,

their successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made;

And we hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of said above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And we do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said Hitachi, Ltd. and Hitachi Car Engineering Co., Ltd.

Signed on the date(s) indicated aside signatures:

INVENTOR(S) (発明者フルネームサイン)		Date Signed (署名日)
1) Toshifumi HIRATSUKA	<i>Toshifumi Hiratsuka</i>	<i>1 / 8 / 2003</i>
2) Norihiro SHINOTSUKA	<i>Norihiro Shinotsuka</i>	<i>1 / 8 / 2003</i>
3) Osamu KURODA	<i>Osamu Kuroda</i>	<i>1 / 8 / 2003</i>
4) Yuichi KITAHARA	<i>Yuichi Kitahara</i>	<i>1 / 8 / 2003</i>
5) Takeshi INOUE	<i>Takeshi Inoue</i>	<i>1 / 8 / 2003</i>
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7) Hidehiro IIZUKA	<i>Hidehiro Iizuka</i>	<i>1 / 8 / 2003</i>
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9)		
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