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Attorney Docket No. 381NP/48317

101199602

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

1. Name of conveying party(ies):

- (1) Katsuaki **FUKATSU**
(2) Ryoichi **KOBAYASHI**
(3) Takashi **ITO**

Additional name(s) of conveying party(ies) attached?
___ yes ___ X no

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

Name: **Hitachi, Ltd. and Hitachi Car Engineering, Co., Ltd.**

Street Address: **6, Kanda Surugadai 4-chome Chiyoda-ku, Tokyo 101-8010, JAPAN**

and

2477, Takaba, Hitachinaka-shi Ibaraki 312 0062, JAPAN

Additional name(s) & address(es) attached?
___ yes ___ X no

3. Nature of Conveyance:

- X Assignment ___ Merger
___ Security Agreement ___ Change of Name
___ Other:

Execution Date: **October 12, 1999**
(as to all)

4. Application number(s) or patent number(s): **09/431161**

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).

PENDING

Additional numbers attached? ___ Yes ___ X No

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

**Gary R. Edwards
Evenson, McKeown, Edwards
& Lenahan, P.L.L.C.
1200 G Street, N.W., Suite 700
Washington, D.C. 20005**

6. Total number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41): \$ 40.00 **E**
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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.

Name **Gary R. Edwards**

Reg. No. 31,824

October 29, 1999
Date

TOTAL NUMBER OF PAGES INCLUDING COVER SHEET, ATTACHMENTS, AND DOCUMENT: 2

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ASSIGNMENT

For good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, as a below named inventor, I hereby sell and assign to Hitachi, Ltd. & Hitachi Car Engineering Co., Ltd.
6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo 101-8010, Japan &
of ~~2477, Takaba, Hitachinaka-shi, Ibaraki 312-0062, Japan~~
 its successors and assigns or other legal representatives all my rights, title and interest, in and for the United States of America, in and to

AN IGNITION APPARATUS AND AN IGNITION CONTROL SYSTEM OF AN INTERNAL
 COMBUSTION ENGINE AND IGBT OF AN INTERNAL COMBUSTION ENGINE

invented by me (if only one is named below) or us (if plural inventors are named below) and described in the applica-
 executed by us even date herewith
 tion for United States Letters Patent therefor, ~~Said No. xxx~~, 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. & Hitachi Car Engineering Co., Ltd., its 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 me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful,
 and proper in the prosecution of the 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 I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said _____
Hitachi, Ltd. & Hitachi Car Engineering Co., Ltd.

(Full Name)

(Signature)

- 1) Date October 12, 1999 Inventor Katsuaki Fukatsu Katsuaki Fukatsu
 Residence Same as Post Office Address Citizenship Japan
1800-260, Hirano, Urizura-machi, Naka-gun,
 Post Office Address Ibaraki 319-2104, Japan
- 2) Date October 12, 1999 Inventor Ryoichi Kobayashi Ryoichi Kobayashi
 Residence Same as Post Office Address Citizenship Japan
1736-176, Shirakata, Tokai-mura, Naka-gun,
 Post Office Address Ibaraki 319-1106, Japan
- 3) Date October 12, 1999 Inventor Takashi Ito Takashi Ito
 Residence Same as Post Office Address Citizenship Japan
2577-11, Sugaya, Naka-machi, Naka-gun,
 Post Office Address Ibaraki 311-0105, Japan
- 4) Date _____ Inventor _____
 Residence _____ Citizenship _____
 Post Office Address _____
- 5) Date _____ Inventor _____
 Residence _____ Citizenship _____
 Post Office Address _____

Witness(es)

- All) Mari Yamagata 2) _____ 4) _____
 1) _____ 3) _____ 5) _____