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United States Patent and Trademark Office

Attorney Docket No.: 056208.57993US

103270959  
PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

## 1. Name of conveying party(ies)/Execution Date(s):

- (1) Yoshiyuki AKIYAMA  
(2) Kenji NAKABAYASHI  
(3) Hiroshi ONUKI  
(4) Takatoshi YAMAMOTO  
(5) Katsuhiko KIKUCHI  
(6) Kazuya ISHIHARA

Execution Date(s) (1) 6/22/2006; (2) 6/22/2006;  
(3) 6/22/2006; (4) 6/22/2006; (5) 6/23/2006; (6) 6/23/2006

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

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

Name: Hitachi, Ltd.

Street Address: 6-6, Marunouch 1-chome  
Chiyoda-ku, Tokyo  
100-8280 Japan

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

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_

4. Application number(s) or patent number(s): ☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent Registration No.(s)

Additional number(s) attached? ☐ Yes ☒ No

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

Name: Crowell &amp; Moring LLP

Street Address: Intellectual Property Group  
PO Box 14300  
Washington, DC 20044-4300

Phone Number: 202-624-2500  
Fax Number: 202-628-8844

6. Total number of applications and patents involved 1

## 7. Total fee (37 CFR 1.21(h) &amp; 3.41) \$40.00

- ☒ Authorized to be charged by credit card  
☐ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

## 8. Payment Information

a. Credit Card Last 4 Numbers 1009  
Expiration Date 10/10

b. Deposit Account Number 05-1323Authorized User Name 23911

## 9. Signature:

Signature

June 30, 2006

Date

Richard R. Diefendorf, Reg. No. 32,390

Name of Person Signing

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

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

PATENT  
REEL: 018070 FRAME: 0610

## ASSIGNMENT

( 譲 渡 証 )

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by HITACHI, LTD., a corporation organized under the laws of Japan, located at 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo, Japan, receipt of which is hereby acknowledged I do hereby sell and assign to said HITACHI, LTD., its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

**NONCONTACT ROTATION ANGLE SENSOR, MANUFACTURING METHOD FOR THE SAME, AND THROTTLE VALVE CONTROL DEVICE FOR INTERNAL COMBUSTION ENGINE HAVING THE SAME**

invented by me (if only one is named below ) or us (if plural inventors are named below ) 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., 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.

Signed on the date(s) indicated aside signatures:

| INVENTOR(S)<br>(発明者フルネームサイン)                           | Date Signed<br>(署名日) |
|--|----------------------|
| 1) <u>Yoshiyuki AKIYAMA</u> <i>Yoshiyuki Akiyama</i>   | <u>6/22/2006</u>     |
| 2) <u>Kenji NAKABAYASHI</u> <i>Kenji Nakabayashi</i>   | <u>6/22/2006</u>     |
| 3) <u>Hiroshi ONUKI</u> <i>Hiroshi Onuki</i>           | <u>6/22/2006</u>     |
| 4) <u>Takatoshi YAMAMOTO</u> <i>Takatashi Yamamoto</i> | <u>6/22/2006</u>     |
| 5) <u>Katsuhiko KIKUCHI</u> <i>Katsuhiko Kikuchi</i>   | <u>6/23/2006</u>     |
| 6) <u>Kazuya ISHIHARA</u> <i>Kazuya Ishihara</i>       | <u>6/23/2006</u>     |
| 7) _____   | _____                |
| 8) _____   | _____                |
| 9) _____   | _____                |
| 10) _____  | _____                |