
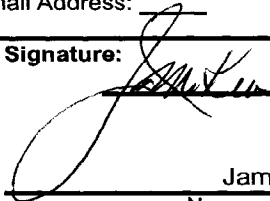


02-09-2006

DEPARTMENT OF COMMERCE
Patent and Trademark Office

218/6 PA1		 103176128
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents and address(es) below.		
1. Name of conveying party(ies)/Execution Date(s): 1. Noriyuki MAEKAWA 6. Toshiyuki INAMI 2. Motoyuki ABE 7. Kazuhiko HANAWA 3. Kenichiro TOKUO 8. Satoshi SHIMADA 4. Takehiko KOWATARI 5. Tohru ISHIKAWA Execution Date(s) 1.) and 2.) 11/8/2005; 3.) 11/24/2005; 4.) and 5.) 11/9/2005; 6.) 11/30/2005; 7.) 12/9/2005 and 8.) 12/14/2005 Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies) Name: <u>HITACHI, LTD</u> <u>6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo, Japan</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____		4. Application number(s) or patent number(s): <input type="checkbox"/> This document is being filed together with a new application. A. Patent Application No.(s) <u>11/288,196</u> Additional number(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No B. Patent Registration No.(s)
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Crowell & Moring LLP</u> Internal Address: _____ Street Address: <u>PO Box 14300</u> City: Washington State: <u>D.C.</u> Zip: 20044 Phone Number: <u>202-624-2500</u> Fax Number: <u>202-628-8844</u> Email Address: _____		
6. Total number of applications and patents involved <u>1</u>		7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00 <input checked="" type="checkbox"/> Authorized to be charged by credit card <input type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)
8. Payment Information a. Credit Card Last 4 Numbers <u>1000</u> Expiration Date <u>10/2010</u> b. Deposit Account Number <u>05-1323</u> Authorized User Name _____		
9. Signature:  _____ Signature James F. McKeown, Reg. 25,406 Name of Person Signing Date <u>02/08/2006</u> Date Total number of pages including cover sheet, attachments, and documents: <u>2</u>		

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, V.A. 22313-1450

02/09/2006 HALI11 00000164 11288196

01 FC:8021

40.00 DP

PATENT
REEL: 017536 FRAME: 0346

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

SENSOR OR ELECTROMAGNETIC ACTUATOR AND FUEL INJECTION VALVE AND ITS CONTROL METHOD OR DRIVING METHOD

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) (発明者フルネームサイン)	Date Signed (署名日)
1) <u>Horiyuki Mackawa</u>	<u>Nov. 8. 2005</u>
2) <u>Motoyuki' Abe</u>	<u>Nov. 8. 2005</u>
3) <u>Kenichiro Tokuo</u>	<u>Nov. 24. 2005</u>
4) <u>Takeshi Kato</u>	<u>Nov. 8, 2005</u>
5) <u>John Ishikawa</u>	<u>Nov. 9. 2005</u>
6) <u>Toshiyuki Inami</u>	<u>Nov. 30. 2005</u>
7) <u>Kazuhiko Hanawa</u>	<u>Dec. 9. 2005</u>
8) <u>Satoshi Shimada</u>	<u>Dec. 14. 2005</u>
9) _____	_____
10) _____	_____