

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Jonathan Borg	11/13/2007
Harsha Badarinarayan	11/19/2007
Donald J. McCune	11/19/2007
Atsushi Watanabe	11/19/2007
Takuya Shiraishi	11/19/2007
George Saikalis	11/19/2007
RECEIVING PARTY DATA	
Name:	Hitachi, Ltd.
Street Address:	6-1, Marunouchi 1-chome
Internal Address:	Marunouchi Center Building, Chiyoda-Ku
City:	Tokyo
State/Country:	JAPAN
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	11943087
CORRESPONDENCE DATA	
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<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
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ATTORNEY DOCKET NUMBER:	HAM-12302/04
NAME OF SUBMITTER:	Douglas W. Sprinkle

OP \$40.00 11943087

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PATENT
REEL: 020142 FRAME: 0496

Total Attachments: 3

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ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by Jonathan Borg; Harsha Badarinarayan; Donald J. McCune; Atsushi Watanabe; Takuya Shiraishi; and George Saikalis (hereinafter referred to as Assignors), residing at Franz-Xaver-Stahl Str. 27, 85435 Erding, Germany; 44710 Gwinnett Loop, Novi, Michigan 48377; 21369 Tulane Avenue, Apartment 103, Farmington Hills, Michigan 48336; 26703 Empire Drive, Novi, Michigan 48374; 7845 Brandywine Boulevard, West Bloomfield, Michigan 48322; and Somerville Drive, West Bloomfield, Michigan 48323, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in FUEL PUMP CONTROL FOR A DIRECT INJECTION INTERNAL COMBUSTION ENGINE, set forth in a Patent application for Letters Patent of the United States, filed herewith; and

WHEREAS, Hitachi, Ltd, a Corporation organized under and pursuant to the laws of Japan having its principal place of business at 6-1, Marunouchi 1-chome, Marunouchi Center Building, Chiyoda-Ku, Tokyo, JAPAN (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or

terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

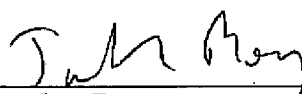
AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply


with the rules of the United States Patent and Trademark Office for recordation of this document:

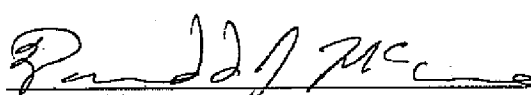
GIFFORD, KRASS, SPRINKLE, ANDERSON & CITKOWSKI, P.C.


All practitioners at Customer Number 25006

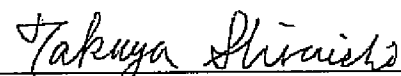
AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

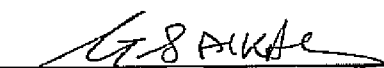
Date: 11/13/07 Signature: 
Jonathan Borg

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