

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Lucien Koopmans | 06/08/2006 |
| Jonas Elfstrand | 06/08/2006 |
| RECEIVING PARTY DATA | |
| Name: | Volvo Car Corporation |
| Street Address: | SE-405 31 |
| City: | Gothenburg |
| State/Country: | SWEDEN |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 12730514 |
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| NAME OF SUBMITTER: | Katherine D. Gardner |
| Total Attachments: 1 source=Signed Assignment Volvo (from parent)#page1.tif | |

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PATENT
REEL: 024136 FRAME: 0485

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ASSIGNMENT

WHEREAS, THE UNDERSIGNED,

has/have invented certain new and useful improvements in:

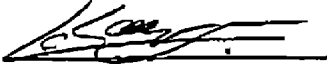
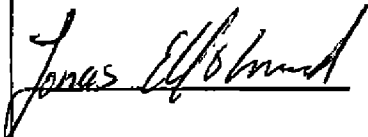
Attorney Docket No: 81136923 entitled: **SYSTEM AND METHOD FOR FACILITATING
HOMOGENEOUS CHARGE COMPRESSION IGNITION**

for which I/we intend to make application for Letters Patent of the United States listing the following as
inventors:

WHEREAS, VOLVO CAR CORPORATION, a corporation organized and existing by virtue of the
laws of Sweden, having its principal place of business at SE-405 91 Gothenburg, Sweden, is desirous of
acquiring an interest therein;

NOW, THEREFORE, pursuant to my employment agreement heretofore made with VOLVO CAR
CORPORATION, or by my contractual obligation, I do sell, assign and transfer unto VOLVO CAR
CORPORATION the full and exclusive right for the United States of America and for all foreign countries to the
said invention, as described in the specification executed by me on the date listed below, preparatory to
obtaining Letters Patent of the United States therefor (and I hereby authorize my attorneys to insert the serial
number and filing date herein:

Serial No. _____, Filing Date _____), and I hereby request the Commissioner of
Patents and Trademarks to issue said Letters Patent to VOLVO CAR CORPORATION as the assignee.
Executed by:

| NAME | SIGNATURE | DATE |
|---|--|--------|
| Lucien Koopmans Hovas brackavag 22 Hovas 436 54 SWEDEN |  | 060806 |
| Jonas Elfstrand Byamansvagen 5 433 46 Partille SWEDEN |  | 060806 |

Attorney Docket No: 81136923 Please call 313-322-7762 if this paper becomes separated from the file.