

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | |
|---|---------------------------------------|---------------|----------------|----------------------|------------|------------|------------|----------------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Raymond Claude Turin</td> <td>06/19/2007</td> </tr> <tr> <td>Rong Zhang</td> <td>06/21/2007</td> </tr> <tr> <td>Man-Feng Chang</td> <td>06/19/2007</td> </tr> </tbody> </table> | | Name | Execution Date | Raymond Claude Turin | 06/19/2007 | Rong Zhang | 06/21/2007 | Man-Feng Chang | 06/19/2007 |
| Name | Execution Date | | | | | | | | |
| Raymond Claude Turin | 06/19/2007 | | | | | | | | |
| Rong Zhang | 06/21/2007 | | | | | | | | |
| Man-Feng Chang | 06/19/2007 | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | |
| Name: | GM Global Technology Operations, Inc. | | | | | | | | |
| Street Address: | 300 Renaissance Center | | | | | | | | |
| Internal Address: | MC 482-C23-B21 | | | | | | | | |
| City: | Detroit | | | | | | | | |
| State/Country: | MICHIGAN | | | | | | | | |
| Postal Code: | 48265-3000 | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11780508</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 11780508 | | | | |
| Property Type | Number | | | | | | | | |
| Application Number: | 11780508 | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | |
| Fax Number: | (248)267-4455 | | | | | | | | |
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| ATTORNEY DOCKET NUMBER: | GP-309042-RD-JMC | | | | | | | | |
| NAME OF SUBMITTER: | Eleanor J. Halik | | | | | | | | |

CH \$40.00 11780508

Total Attachments: 2

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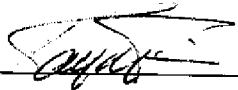
ASSIGNMENT

Pursuant to an agreement with my employer, I formally assign to GM GLOBAL TECHNOLOGY OPERATIONS, INC., the entire right, title and interest, in all countries and application types, in the improvements set forth in the United States patent application GP-309042-US-NP/R&D/JMC entitled

AIRFLOW ESTIMATION METHOD AND APPARATUS FOR INTERNAL COMBUSTION ENGINE

for which I executed a declaration dated as indicated below. If the patent application has been filed, I authorize attorney JOHN M. CARD to insert the application number and filing date of said application here in parentheses (11780508 filed 20-JULY-2007) when known.

Inventor's signature



Date 6-19-07

Full name :

RAYMOND CLAUDE TURIN

Declaration dated :

Residence :

GROSSE POINTE PARK, MI

6-19-07

Inventor's signature

Date _____

Full name :

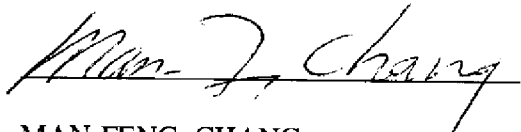
RONG ZHANG

Declaration dated :

Residence :

TROY, MICHIGAN

Inventor's signature



Date 6-19-2007

Full name :

MAN-FENG CHANG

Declaration dated :

Residence :

TROY, MICHIGAN

June 19, 2007

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Inventor's signature _____ Date _____

Full name : RAYMOND CLAUDE TURIN Declaration dated :

Residence : GROSSE POINTE PARK, MI _____

Inventor's signature  Date 06/21/2007

Full name : RONG ZHANG Declaration dated :

Residence : TROY, MICHIGAN 06/21/2007

Inventor's signature _____ Date _____

Full name : MAN-FENG CHANG Declaration dated :

Residence : TROY, MICHIGAN _____