

**PATENT ASSIGNMENT**

Electronic Version v1.1  
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|                       |                |
|-----------------------|----------------|
| SUBMISSION TYPE:      | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT     |

**CONVEYING PARTY DATA**

| Name            | Execution Date |
|-----------------|----------------|
| Chen-Fang Chang | 01/20/2010     |
| Jun-Mo Kang     | 01/20/2010     |
| Man-Feng Chang  | 01/20/2010     |

**RECEIVING PARTY DATA**

|                   |                                       |
|-------------------|---------------------------------------|
| Name:             | GM Global Technology Operations, Inc. |
| Street Address:   | 300 Renaissance Center                |
| Internal Address: | Mail Code 482-C23-B21, P.O. Box 300   |
| City:             | Detroit                               |
| State/Country:    | MICHIGAN                              |
| Postal Code:      | 48265-3000                            |

**PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 12691056 |

**CORRESPONDENCE DATA**

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| ATTORNEY DOCKET NUMBER: | P007643/RD/MJL(GMC9130) |
| NAME OF SUBMITTER:      | Mona-Lisa Cichosz       |

Total Attachments: 2  
 source=Assignment P007643#page1.tif

**CH \$40.00 12691056**

**501071409**

**PATENT  
 REEL: 023823 FRAME: 0674**



Customer No. 70465  
P007643/RD/MJL, Page 1

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 P007643/RD/MJL entitled

METHOD AND APPARATUS TO MONITOR A MASS AIRFLOW METERING DEVICE IN AN INTERNAL COMBUSTION ENGINE

for which I executed a declaration dated as indicated below. If the patent application has been filed, I authorize any patent practitioner associated with Customer No. 70465 to insert the application number and filing date of said application here in parentheses ( 12/691,056 filed 21-JAN-2010 ) when known.

|                      |                               |                     |                  |
|----------------------|-------------------------------|---------------------|------------------|
| Inventor's signature | <u><i>Chen-Fang Chang</i></u> | Date                | <u>1/20/2010</u> |
| Full name :          | CHEN-FANG CHANG               | Declaration dated : |                  |
| Residence :          | TROY, MICHIGAN                |                     | <u>1/20/2010</u> |

|                      |                           |                     |                  |
|----------------------|---------------------------|---------------------|------------------|
| Inventor's signature | <u><i>Jun-Mo Kang</i></u> | Date                | <u>1/20/2010</u> |
| Full name :          | JUN-MO KANG               | Declaration dated : |                  |
| Residence :          | ANN ARBOR, MICHIGAN       |                     | <u>1/20/2010</u> |

|                      |                |                     |       |
|----------------------|----------------|---------------------|-------|
| Inventor's signature | _____          | Date                | _____ |
| Full name :          | MAN-FENG CHANG | Declaration dated : |       |
| Residence :          | TROY, MICHIGAN |                     | _____ |

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 P007643/RD/MJL entitled

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Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Full name: CHEN-FANG CHANG Declaration dated: \_\_\_\_\_  
Residence: TROY, MICHIGAN \_\_\_\_\_

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Full name: JUN-MO KANG Declaration dated: \_\_\_\_\_  
Residence: ANN ARBOR, MICHIGAN \_\_\_\_\_

Inventor's signature: Man-Feng Chang Date: Jan. 20, 2010  
Full name: MAN-FENG CHANG Declaration dated: \_\_\_\_\_  
Residence: TROY, MICHIGAN Jan. 20, 2010