

General Motors Corporation  
Legal Staff  
Mail Code 482-C23-B21  
P.O. Box 300  
Detroit, MI 48265-3000

28-JUN-04

Mail Stop Assignment Recordation Services  
Director of the US Patent and Trademark Office  
PO Box 1450  
Alexandria VA 22313-1450

Fax No. 703-306-5995

Enclosed for recording is Assignment documentation for the following patent application:

Attorney Docket No. GP-303407

(1) Assignor/Inventors: JAMES FRANCIS COLLINS  
ROBERT LEE NISONGER  
CHRISTOPHER P MURPHY

(2) Assignee: GENERAL MOTORS CORPORATION  
DETROIT, MICHIGAN

(3) Assignment of patent application

(4) Application number: 10/815383  
If blank, this documentation is filed together with the patent application.

(5) Address correspondence to: LAURA C. HARGITT  
General Motors Corporation  
Legal Staff  
Mail Code 482-C23-B21  
P.O. Box 300  
Detroit, MI 48265-3000

(6) Number of applications: 1  
Total Fee: 40.00

(7) Date documentation executed: March 18, 19, 2004

(8) Not applicable

(9) To the best of my knowledge and belief, the information contained on this cover sheet is true and correct and any copy submitted is a true copy of the original document.

Title: BRAKE BOOSTER VACUUM PREDICTION ALGORITHM AND METHOD OF USE  
THEREFOR

Please charge the \$40.00 assignment recording fee to GENERAL MOTORS CORPORATION Deposit Account  
No. 07-0960.

*Laura C. Hargitt*  
LAURA C. HARGITT  
313/665-4710

Total number of pages including cover sheet, attachments and document: 4

Enclosures

CH \$40.00 070960 10815383

GP-303407, Page 1

**ASSIGNMENT**

Pursuant to an agreement with my employer, I formally assign to GENERAL MOTORS CORPORATION, the entire right, title and interest, in all countries, in the improvements set forth in the United States patent application GP-303407 entitled

**BRAKE BOOSTER VACUUM PREDICTION ALGORITHM AND METHOD OF USE  
THEREFOR**

for which I executed a declaration dated as indicated below. If the patent application has been filed, I authorize attorney LAURA C. HARGITT to insert the application number and filing date of said application here in parentheses ( 10/815,383 filed 01-APR-04 ) when known.

Inventor's signature x *James F. Collins* Date x 3/18/04

Full name : JAMES F. COLLINS

Declaration dated :

Residence : FARMINGTON HILLS, MI

x 3/18/04

Inventor's signature x \_\_\_\_\_

Date x \_\_\_\_\_

Full name : ROBERT L. NISONGER

Declaration dated :

Residence : MILFORD, MI

x \_\_\_\_\_

Inventor's signature x \_\_\_\_\_

Date x \_\_\_\_\_

Full name : CHRISTOPHER P. MURPHY

Declaration dated :

Residence : LINDEN, MI

x \_\_\_\_\_

GP-303407, Page 1

## ASSIGNMENT

Pursuant to an agreement with my employer, I formally assign to GENERAL MOTORS CORPORATION, the entire right, title and interest, in all countries, in the improvements set forth in the United States patent application GP-303407 entitled

BRAKE BOOSTER VACUUM PREDICTION ALGORITHM AND METHOD OF USE  
THEREFOR

for which I executed a declaration dated as indicated below. If the patent application has been filed, I authorize attorney LAURA C. HARGITT to insert the application number and filing date of said application here in parentheses ( 10/815,383 filed 01-APR-04 ) when known.

Inventor's signature x \_\_\_\_\_ Date x \_\_\_\_\_

Full name : JAMES F. COLLINS

Declaration dated :

Residence : FARMINGTON HILLS, MI

x \_\_\_\_\_

Inventor's signature x Robert L. NisongerDate x 3/19/04

Full name : ROBERT L. NISONGER

Declaration dated :

Residence : MILFORD, MI

x 3/19/04

Inventor's signature x \_\_\_\_\_

Date x \_\_\_\_\_

Full name : CHRISTOPHER P. MURPHY

Declaration dated :

Residence : LINDEN, MI

x \_\_\_\_\_

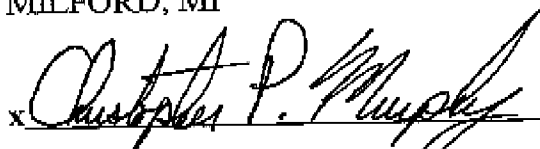
GP-303407, Page 1

ASSIGNMENT

Pursuant to an agreement with my employer, I formally assign to GENERAL MOTORS CORPORATION, the entire right, title and interest, in all countries, in the improvements set forth in the United States patent application GP-303407 entitled

BRAKE BOOSTER VACUUM PREDICTION ALGORITHM AND METHOD OF USE  
THEREFOR

for which I executed a declaration dated as indicated below. If the patent application has been filed, I authorize attorney LAURA C. HARGITT to insert the application number and filing date of said application here in parentheses ( 10/815,383 filed 01-APR-04 ) when known.

Inventor's signature	x _____	Date x _____
Full name :	JAMES F. COLLINS	Declaration dated :
Residence :	FARMINGTON HILLS, MI	x _____
Inventor's signature	x _____	Date x _____
Full name :	ROBERT L. NISONGER	Declaration dated :
Residence :	MILFORD, MI	x _____
Inventor's signature	x 	Date x <u>03/18/2004</u>
Full name :	CHRISTOPHER P. MURPHY	Declaration dated :
Residence :	LINDEN, MI	x <u>03/18/2004</u>