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

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10-JUL-02

FINANCE SECTION

Box Assignments  
Commissioner for Patents  
Washington DC 20231

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

Serial No. 10/147,658 filed May 16, 2002

Attorney Docket No.

GP-301086

7-16-02

(1) Assignor/Inventors:

KERFEGAR KHURSHED KATRAK, PAUL ALAN BAUERLE,  
BRUCE A. ROGERS, JAMES L. WORTHING, MARK HENRY COSTIN,  
ROBERT J. SCHALLER, JAMES T. PURCELL,  
TIMOTHY JOHN HARTREY, PATRICK J. O'LEARY

(2) Assignee:

GENERAL MOTORS CORPORATION  
DETROIT, MICHIGAN

(3) Assignment of patent application

(4) Application number:

10/147,658

If blank, this documentation is filed together with the patent application.

(5) Address correspondence to:

CHRISTOPHER DEVRIES  
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:

May 2, 3 and 8, 2002

(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:

CROSS-CHECKING PROCESSORS FOR POWERTRAIN CONTROL  
SYSTEMS USING A DEDICATED SERIAL DATA LINK

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

07/18/2002 DBYRNE 00000133 070960 10147658  
01 FC:581 40.00 CH

CHRISTOPHER DEVRIES  
313/665-4969

Total number of pages including cover sheet, attachments and document: 9

Enclosures

**PATENT**  
**REEL: 013091 FRAME: 0302**

### 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-301086 entitled

#### CROSS-CHECKING PROCESSORS FOR POWERTRAIN CONTROL SYSTEMS USING A DEDICATED SERIAL DATA LINK

for which I executed a declaration dated as indicated below. If the patent application has been filed, I authorize attorney CHRISTOPHER DEVRIES to insert the application number and filing date of said application here in parentheses ( 10/147,658 filed May 16, 2002 ) when known.

Inventor's signature *KKKatak* Date May 2, 2002

Full name: KERFEGAR KHURSHED KATRAK Declaration dated :

Residence: FENTON, MI May 2, 2002

Inventor's signature *Paul A. Bauerle* Date May 2, 2002

Full name: PAUL ALAN BAUERLE Declaration dated :

Residence: FENTON, MI May 2, 2002

Inventor's signature *B R* Date May 2, 2002

Full name: BRUCE A. ROGERS Declaration dated :

Residence: NOVI, MI May 2, 2002

Inventor's signature *James L. Worthing* Date May 2, 2002

Full name: JAMES L. WORTHING Declaration dated :

Residence: MUNITH, MI May 2, 2002

PATENT

REEL: 013091 FRAME: 0303

Inventor's signature Mark H. Costin

Date MAY 2, 2002

Full name: MARK HENRY COSTIN

Declaration dated :

Residence: BLOOMFIELD TOWNSHIP, MI

MAY 2, 2002

Inventor's signature Robert J. Schaller

Date 5/2/02

Full name: ROBERT J. SCHALLER

Declaration dated :

Residence: BRIGHTON, MI

5/2/02

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

Date \_\_\_\_\_

Full name: JAMES T. PURCELL

Declaration dated :

Residence: GOLETA, CA

\_\_\_\_\_

Inventor's signature Timothy John Hartrey

Date 5/2/02

Full name: TIMOTHY JOHN HARTREY

Declaration dated :

Residence: BRIGHTON, MI

5/2/02

Inventor's signature Patrick J. O'Leary

Date 5/8/02

Full name: PATRICK J. O'LEARY

Declaration dated :

Residence: CLINTON TOWNSHIP, MI

5/8/02

On this 2<sup>ND</sup> day of MAY, 2002, before me personally appeared KERFEGAR KHURSHED KATRAK, known to me to be the person who executed the foregoing instrument, and acknowledged that he/she executed the same.

Stephen R. Kornblum  
Notary Public

My commission expires:  
County of Authorization:

(SEAL)

STEPHEN R. KORNBUM  
Notary Public, Oakland County, MI  
My Commission Expires Apr. 4, 2003

On this 2<sup>ND</sup> day of MAY, 2002, before me personally appeared PAUL ALAN BAUERLE, known to me to be the person who executed the foregoing instrument, and acknowledged that he/she executed the same.

Stephen R. Kornblum

Notary Public

My commission expires:

County of Authorization:

**STEPHEN R. KORNBUM**  
Notary Public, Oakland County, MI  
My Commission Expires Apr. 4, 2003

(SEAL)

On this 2<sup>ND</sup> day of MAY, 2002, before me personally appeared BRUCE A. ROGERS, known to me to be the person who executed the foregoing instrument, and acknowledged that he/she executed the same.

Stephen R. Kornblum

Notary Public

My commission expires:

County of Authorization:

**STEPHEN R. KORNBUM**  
Notary Public, Oakland County, MI  
My Commission Expires Apr. 4, 2003

(SEAL)

On this 2<sup>ND</sup> day of MAY, 2002, before me personally appeared JAMES L. WORTHING, known to me to be the person who executed the foregoing instrument, and acknowledged that he/she executed the same.

Stephen R. Kornblum

Notary Public

My commission expires:

County of Authorization:

**STEPHEN R. KORNBUM**  
Notary Public, Oakland County, MI  
My Commission Expires Apr. 4, 2003

(SEAL)

On this 2<sup>ND</sup> day of MAY, 2002, before me personally appeared MARK HENRY COSTIN, known to me to be the person who executed the foregoing instrument, and acknowledged that he/she executed the same.

Stephen R. Kornblum

Notary Public

My commission expires:

County of Authorization:

**STEPHEN R. KORNBUM**  
Notary Public, Oakland County, MI  
My Commission Expires Apr. 4, 2003

(SEAL)

**PATENT**

**REEL: 013091 FRAME: 0305**

On this 2<sup>ND</sup> day of MAY, 2002, before me personally appeared ROBERT J. SCHALLER, known to me to be the person who executed the foregoing instrument, and acknowledged that he/she executed the same.

Stephen R. Kornblum

Notary Public

(SEAL)

My commission expires:

County of Authorization:

**STEPHEN R. KORNBLUM**  
Notary Public, Oakland County, MI  
My Commission Expires Apr. 4, 2003

On this \_\_\_\_\_ day of \_\_\_\_\_, 2002, before me personally appeared JAMES T. PURCELL, known to me to be the person who executed the foregoing instrument, and acknowledged that he/she executed the same.

\_\_\_\_\_  
Notary Public

(SEAL)

My commission expires:

County of Authorization:

On this 2<sup>ND</sup> day of MAY, 2002, before me personally appeared TIMOTHY JOHN HARTREY, known to me to be the person who executed the foregoing instrument, and acknowledged that he/she executed the same.

Stephen R. Kornblum

Notary Public

(SEAL)

My commission expires:

County of Authorization:

**STEPHEN R. KORNBLUM**  
Notary Public, Oakland County, MI  
My Commission Expires Apr. 4, 2003

On this 8<sup>TH</sup> day of MAY, 2002, before me personally appeared PATRICK J. O'LEARY, known to me to be the person who executed the foregoing instrument, and acknowledged that he/she executed the same.

Stephen R. Kornblum

Notary Public

(SEAL)

My commission expires:

County of Authorization:

**STEPHEN R. KORNBLUM**  
Notary Public, Oakland County, MI  
My Commission Expires Apr. 4, 2003

**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-301086 entitled

**CROSS-CHECKING PROCESSORS FOR POWERTRAIN CONTROL SYSTEMS  
USING A DEDICATED SERIAL DATA LINK**

for which I executed a declaration dated as indicated below. If the patent application has been filed, I authorize attorney CHRISTOPHER DEVRIES to insert the application number and filing date of said application here in parentheses ( 10/147,658 filed May 16, 2002 ) when known.

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

Full name: KERFEGAR KHURSHED KATRAK Declaration dated :

Residence: FENTON, MI \_\_\_\_\_

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

Full name: PAUL ALAN BAUERLE Declaration dated :

Residence: FENTON, MI \_\_\_\_\_

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

Full name: BRUCE A. ROGERS Declaration dated :

Residence: NOVI, MI \_\_\_\_\_

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

Full name: JAMES L. WORTHING Declaration dated :

Residence: MUNITH, MI \_\_\_\_\_

**PATENT**

**REEL: 013091 FRAME: 0307**

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

Date \_\_\_\_\_

Full name: MARK HENRY COSTIN

Declaration dated :

Residence: BLOOMFIELD TOWNSHIP, MI

\_\_\_\_\_

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

Date \_\_\_\_\_

Full name: ROBERT J. SCHALLER

Declaration dated :

Residence: BRIGHTON, MI

\_\_\_\_\_

Inventor's signature *James T. Purcell*

Date MAY 3, 2002

Full name: JAMES T. PURCELL

Declaration dated :

Residence: GOLETA, CA

APRIL 25, 2002

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

Date \_\_\_\_\_

Full name: TIMOTHY JOHN HARTREY

Declaration dated :

Residence: BRIGHTON, MI

\_\_\_\_\_

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

Date \_\_\_\_\_

Full name: PATRICK J. O'LEARY

Declaration dated :

Residence: CLINTON TOWNSHIP, MI

\_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, 2002, before me personally appeared KERFEGAR KHURSHED KATRAK, known to me to be the person who executed the foregoing instrument, and acknowledged that he/she executed the same.

(SEAL)

\_\_\_\_\_  
Notary Public  
My commission expires:  
County of Authorization:

On this \_\_\_\_\_ day of \_\_\_\_\_, 2002, before me personally appeared ROBERT J. SCHALLER, known to me to be the person who executed the foregoing instrument, and acknowledged that he/she executed the same.

(SEAL)

\_\_\_\_\_  
Notary Public  
My commission expires:  
County of Authorization:

On this 03 day of 05, 2002, before me personally appeared JAMES T. PURCELL, known to me to be the person who executed the foregoing instrument, and acknowledged that he/she executed the same.

*see attachment for seal*

(SEAL)

*[Signature]*  
\_\_\_\_\_  
Notary Public  
My commission expires: Oct - 7, 2003  
County of Authorization: Santa Barbara

On this \_\_\_\_\_ day of \_\_\_\_\_, 2002, before me personally appeared TIMOTHY JOHN HARTREY, known to me to be the person who executed the foregoing instrument, and acknowledged that he/she executed the same.

(SEAL)

\_\_\_\_\_  
Notary Public  
My commission expires:  
County of Authorization:

On this \_\_\_\_\_ day of \_\_\_\_\_, 2002, before me personally appeared PATRICK J. O'LEARY, known to me to be the person who executed the foregoing instrument, and acknowledged that he/she executed the same.

(SEAL)

\_\_\_\_\_  
Notary Public  
My commission expires:  
County of Authorization:



**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California

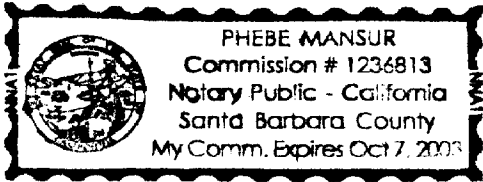
County of Santa Barbara } ss.

On 05/03/02, before me, Phebe Mansur, notary public,  
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared James Thomas Purcell,  
Name(s) of Signer(s)

- personally known to me
- proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



Place Notary Seal Above

WITNESS my hand and official seal.

Phebe Mansur  
Signature of Notary Public

**OPTIONAL**

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

**Description of Attached Document**

Title or Type of Document: Assignment GP 301086

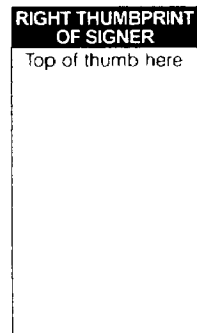
Document Date: 05/03/02 Number of Pages: \_\_\_\_\_

Signer(s) Other Than Named Above: \_\_\_\_\_

**Capacity(ies) Claimed by Signer**

Signer's Name: James Thomas Purcell

- Individual
- Corporate Officer — Title(s): \_\_\_\_\_
- Partner —  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: \_\_\_\_\_



Signer Is Representing: \_\_\_\_\_