

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT2618806

SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>DEBO SUN</td> <td>11/11/2013</td> </tr> <tr> <td>CURTIS L. HAY</td> <td>10/22/2013</td> </tr> </tbody> </table>		Name	Execution Date	DEBO SUN	11/11/2013	CURTIS L. HAY	10/22/2013
Name	Execution Date						
DEBO SUN	11/11/2013						
CURTIS L. HAY	10/22/2013						
RECEIVING PARTY DATA							
Name:	GENERAL MOTORS LLC						
Street Address:	P.O. BOX 300						
Internal Address:	MAIL CODE 482-C23-B21						
City:	DETROIT						
State/Country:	MICHIGAN						
Postal Code:	48265-3000						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14082764</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14082764		
Property Type	Number						
Application Number:	14082764						
CORRESPONDENCE DATA							
Fax Number:	(312)616-5700						
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NAME OF SUBMITTER:	MARK JOY						
Signature:	/Mark Joy/						

Date:

11/18/2013

Total Attachments: 2

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ASSIGNMENT

Pursuant to an agreement with my employer, I formally assign to GENERAL MOTORS LLC, the entire right, title and interest, in all countries and application types, in the improvements set forth in the United States patent application P023391-OST-ALS/713638 entitled

Vehicular GPS/DR Navigation with Environmental-Adaptive Kalman Filter Gain

for which I executed a declaration. If the patent application has been filed, I authorize any practitioner associated with Customer No. 73811 to insert the application number and filing date of said application here in parentheses ( 14/082,764 filed November 18, 2013 18, 2013 when known.

Inventor's signature Debo S Date Nov 11, 2013

Full name : DEBO SUN

Residence : West Covina, California

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

Full name : CURTIS L. HAY

Residence : WEST BLOOMFIELD, MICHIGAN

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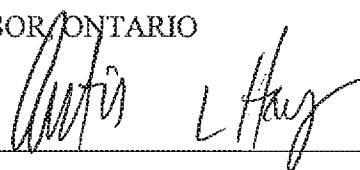
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Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Full name : DEBO SUN

Residence : WINDSOR, ONTARIO

Inventor's signature  \_\_\_\_\_ Date 22 OCT 2013

Full name : CURTIS L. HAY

Residence : WEST BLOOMFIELD, MICHIGAN