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PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Calvin K. Koch	10/30/2012
Gongshin Qi	10/31/2012
Steven J. Schmieg	10/29/2012
Wei Li	10/30/2012

RECEIVING PARTY DATA

Name:	GM GLOBAL TECHNOLOGY OPERATIONS LLC
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13664749

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ATTORNEY DOCKET NUMBER:	P020642-RD-SDJ
NAME OF SUBMITTER:	George A. Grove

Total Attachments: 3

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> **PATENT** REEL: 029222 FRAME: 0886

ASSIGNMENT

Pursuant to an agreement with my employer, I formally assign to GM GLOBAL TECHNOLOGY OPERATIONS LLC, the entire right, title and interest, in all countries and application types, in the improvements set forth in the United States patent application P020642-RD-SDJ entitled

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practitioner associate	a declaration. If the patent appled with Customer No. 60770 to i ere in parentheses (13/664,749)	nsert the application number	and filing date
	ion has been filed provisionally, ication(s) assigned herein are as		filing date of
US Provisional Serial No Filed 61/644510 09-MAY-2012		US Provisional Serial No Filed 61/643472 07-MAY-201	
Inventor's signature Full name:	CALVIN K. KOCH	Date <u>/0/3</u>	0/12
Residence:	BLOOMFIELD HILLS, MICH	IGAN	
Inventor's signature		Date	
Full name:	GONGSHIN QI		
Residence:	TROY, MICHIGAN		
Inventor's signature		Date	
Full name:	STEVEN J. SCHMIEG		
Residence:	TROY MICHIGAN		

PATENT REEL: 029222 FRAME: 0887

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US Provisional Seria 61/644510	al No Filed 09-MAY-2012	US Provisional Serial No 61/643472	Filed 07-MAY-2012
Inventor's signature		Date	
Full name:	CALVIN K. KOCH		
Residence:	BLOOMFIELD HILLS, MICHIGAN		
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Full name:	GONGSHIN QI		
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Inventor's signature Full name :	STEVEN J. SCHMIEG	Date 10/29/17	2
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PATENT REEL: 029222 FRAME: 0888

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Inventor's signature

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PATENT REEL: 029222 FRAME: 0889

RECORDED: 11/01/2012