501929775 05/22/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Steven SCHULZ	05/18/2012
Michael GRIMMER	05/21/2012
Konstantin MAJAROV	05/18/2012
William CAWTHORNE	05/21/2012

RECEIVING PARTY DATA

Name:	GM GLOBAL TECHNOLOGY OPERATIONS 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

Property Type	Number
Application Number:	13477281

CORRESPONDENCE DATA

(480)385-5061 Fax Number: Phone: 4803855060 Email: docketing@ifllaw.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US

Mail.

INGRASSIA FISHER & LORENZ P.C. Correspondent Name:

Address Line 1: 7010 E. Cochsie Road Address Line 4: Scottsdale, ARIZONA 85253

ATTORNEY DOCKET NUMBER:	P017366-ATC-CD(003.0899)
NAME OF SUBMITTER:	Erin P. Madill

Total Attachments: 3

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REEL: 028251 FRAME: 0484

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 P017366-ATC-CD (003.0899) entitled:

METHODS, SYSTEMS AND APPARATUS FOR COMPUTING A VOLTAGE ADVANCE USED IN CONTROLLING OPERATION OF AN ELECTRIC MACHINE

5.7	cuted on even date h		
[] executed on [X] was filed on	; May 22, 2012	and assigned	U.S. Scrial No. <u>13/477,281</u> ;
successors and assig	ns, its legal represen	tatives, or anyone it ma	OGY OPERATIONS LLC, its ay properly designate, to insert in cation when ascertained.
Inventor's signature Full name : Residence :	STEVEN E. SCHIL TORRANCE, CAL	ILZ C	Date 5/18/12
Inventor's signature Full name ; Residence :	MICHAEL J. GRII TROY, MICHIGA		Date
Inventor's signature Full name : Residence :	COVISTANTIN S. TORRANCE, CAL		Date 5/18/12
Inventor's signature Full name : Residence :	WILLIAM R. CAV		Date
ILVANICING ,		INSCRIN	

PATENT REEL: 028251 FRAME: 0485

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	on for Letters Patent of the United States:	
	ecuted on even date herewith;	
[] executed on		
[X] was filed on	May 22, 2012 and assign	ied U.S. Serial No. 13/477,281
successors and assi-	y authorizes GM GLOBAL TECHNO gns, its legal representatives, or anyone it filing date and/or serial number of said ap	may properly designate, to insert in
Inventor's signature		Date
Full name:	STEVEN E. SCHULZ	
Residence:	TORRANCE, CALIFORNIA	
Inventor's signature		Date
Full name:	MICHAEL J. GRIMMER	
Residence:	TROY, MICHIGAN	
Invantado semátura		Date
Inventor's signature Full name :	KONSTANTIN S. MAJAROV	
Residence:	TORRANCE, CALIFORNIA	
Inventor's signature Full name:	/ 1 m = 0 / 545	Date <i>S/21/3042</i>

PATENT REEL: 028251 FRAME: 0486

ASSIGNMENT

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[] has been ex	on for Letters Patent of the United ecuted on even date herewith;	l States:
[X] was filed or	1 <u>May 22, 2012</u> ar	nd assigned U.S. Serial No. 13/477.281;
successors and assi	gns, its legal representatives, or a	TECHNOLOGY OPERATIONS LLC, its nyone it may properly designate, to insert in f said application when ascertained.
Inventor's signature		Date
Full name:	STEVEN E. SCHULZ	
Residence:	TORRANCE, CALIFORNIA	
Inventor's signature Full name : Residence :	Mobal & Aumon Michael J. Grimmer TROY, MICHIGAN	Date 5/21/2012
Inventor's signature Full name : Residence :	KONSTANTIN S. MAJAROV	Date
Inventor's signature Full name: Residence:	WILLIAM R. CAWTHORNE MILFORD, MICHIGAN	Date

PATENT REEL: 028251 FRAME: 0487

RECORDED: 05/22/2012