PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
AZEEM SARWAR	05/18/2018
MADI ZHOLBARYSSOV	05/23/2018
WESLEY G. ZANARDELLI	05/18/2018
YO CHAN SON	05/18/2018
ETHAN M. BLAKLEY	05/21/2018

RECEIVING PARTY DATA

Name:	GM GLOBAL TECHNOLOGY OPERATIONS LLC
Street Address:	300 RENAISSANCE CENTER
Internal Address:	M/C 482-C22-A68
City:	DETROIT
State/Country:	MICHIGAN
Postal Code:	48265-3000

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15978720

CORRESPONDENCE DATA

Fax Number: (248)524-2700

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ATTORNEY DOCKET NUMBER:	P044710-US-NP
NAME OF SUBMITTER:	KARL F. BARR, JR.
SIGNATURE:	/KarlFBarrJr/
DATE SIGNED:	06/29/2018

Total Attachments: 3

PATENT REEL: 046235 FRAME: 0465

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> PATENT REEL: 046235 FRAME: 0466

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 P044710-US-NP entitled

EARLY DETECTION OF MOTOR STATOR WINDING FAULTS

for which I executed a declaration. If the patent application has been filed, I authorize any practitioner associated with Customer No. 80748 to insert the application number and filing date of said application here in parentheses (15/978,720 filed 14-MAY-2018) when known.

Inventor's signature	Morrill.	Date_ 05 18 20 18.
Full name:	AZEEM SARWAR	
Residence:	ROCHESTER HILLS, MICHIGAN	
Inventor's signature		Date
Full name:	MADI ZHOLBARYSSOV	
Residence:	CHAMPAIGN, ILLINOIS	
Inventor's signature		Date
Full name:	WESLEY G. ZANARDELLI	
Residence:	ROCHESTER, MICHIGAN	
Inventor's signature		Date
Full name:	YO CHAN SON	
Residence:	ROCHESTER HILLS, MICHIGAN	
Inventor's signature		Date
Full name:	ETHAN M. BLAKLEY	
Residence:	WATERFORD, MICHIGAN	

PATENT REEL: 046235 FRAME: 0467

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Inventor's signature		Date
Full name:	AZEEM SARWAR	
Residence:	ROCHESTER HILLS, MICHIGAN	
Inventor's signature	434	Date 15/23/2018
Full name:	MADI ZHOLBARÝSSOV	
Residence:	CHAMPAIGN, ILLINOIS	
Inventor's signature		Date
Full-name :	WESLEY G. ZANARDELLI	
Residence:	ROCHESTER, MICHIGAN	
Inventor's signature		Date
Full name 2	YO CHAN SON	
Residence	ROCHESTER HILLS, MICHIGAN	
Inventor's signature		Date
Full name:	ETHANM: BLAKLEY	
Residence:		

PATENT REEL: 046235 FRAME: 0468

ASSIGNMENT

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Inventor's signature	40 00 PM 50	Date
Full name:	AZEEM SARWAR	
Residence:	ROCHESTER HILLS, MICHIGAN	
Inventor's signature		Date
Full name:	MADI ZHOLBARYSSOV	
Residence:	CHAMPAIGN, ILLINOIS	
Inventor's signature	-232gra-	Date 5-18-2018
Full name:	WESLEY G. ZANARDELLI	
Residence:	ROCHESTER, MICHIGAN	
Inventor's signature	Yochan Son	Date 5/18/2018.
Full name:	YO CHAN SON	
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Inventor's signature	Let I	Date 5-21-18
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PATENT REEL: 046235 FRAME: 0469

RECORDED: 06/29/2018