504556866 09/20/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DAVID R. SIGLER	09/05/2017
BLAIR E. CARLSON	09/11/2017
MICHAEL J. KARAGOULIS	09/05/2017

RECEIVING PARTY DATA

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

Property Type	Number	
Application Number:	15492482	

CORRESPONDENCE DATA

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GENERAL MOTORS CORPORATION C/O REISING E **Correspondent Name:**

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ATTORNEY DOCKET NUMBER: P026254-US-NP	
NAME OF SUBMITTER:	MICHAEL J. DRUZINSKI
SIGNATURE:	/Michael J. Druzinski/
DATE SIGNED:	09/20/2017

Total Attachments: 1

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PATENT REEL: 043641 FRAME: 0479 504556866

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 P026254-US-NP entitled

ALTERNATELY DIRECT RESISTANCE SPOT WELDING OF AL-TO-AL, AL-TO-STEEL, AND STEEL-TO-STEEL WITH WELDING ELECTRODE HAVING OXIDE-DISRUPTING STRUCTURAL FEATURES

which has serial number 15/492,482 and a filing date of April 20, 2017.

RECORDED: 09/20/2017

If the patent application has been filed provisionally, the application number and filing date of said provisional application(s) are as follows:

US Provisional Serial 62/326,089 62/326,092	l No.: Filed: 22-APR-2016 22-APR-2016		
Inventor's signature	Duil R Light	Date	9/5/12
Full name :	David R. Sigler		
Residence:	SHELBY TOWNSHIP, MICHIGAN		
Inventor's signature Full name:	Blair E, Carlson	Date	9/11/17
Residence:	ANN ARBOR, MICHIGAN		
Inventor's signature Full name:	Michael J. Karagoulis Michael J. Karagoulis	Date	9/5/17
Residence :	OKEMOS MICHIGAN		

PATENT REEL: 043641 FRAME: 0480