

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5963103

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
WEI ZENG	07/24/2019
SHARON XIAOBIN LI	07/23/2019
LEI HAO	07/08/2019
CHANDRA NAMUDURI	07/08/2019
MICHAEL C. ZUMBAUGH	07/16/2019
RECEIVING PARTY DATA	
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City:	DETROIT
State/Country:	MICHIGAN
Postal Code:	48265-3000
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16520905
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ATTORNEY DOCKET NUMBER:	P048640-US-NP
NAME OF SUBMITTER:	STEVEN L. CRANE
SIGNATURE:	/STEVENLCRANE/
DATE SIGNED:	02/13/2020
Total Attachments: 3	

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source=2019-07-24 Assignment P048640-US-NP#page3.tif

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 P048640-US-NP entitled

SYSTEM AND METHOD FOR REDUCING COLD START EMISSIONS OF A MOTOR
VEHICLE

for which I executed a declaration. If the patent application has been filed, I authorize any practitioner associated with Customer No. 76438 to insert the application number and filing date of said application here in parentheses (16/520,905) filed (07/24/2019) when known.

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

Inventor's signature _____ Date _____

Full name : Lei Hao
Residence : Troy, MI

Inventor's signature _____

Date 7/24/2019

Full name : Wei Zeng
Residence : Oakland Township, MI

Inventor's signature _____

Date _____

Full name : Chandra Namuduri
Residence : Troy, MI

Inventor's signature _____

Date 7/23/2019

Full name : Sharon Xiaobin Li
Residence : Bloomfield Hills, MI

Inventor's signature _____

Date _____

Full name : Michael C. Zumbaugh
Residence : Troy, MI

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

Inventor's signature [Signature] Date 07/08/19

Full name : Lei Hao
Residence : Troy, MI

Inventor's signature _____ Date _____

Full name : Wei Zeng
Residence : Oakland Township, MI

Inventor's signature [Signature] Date 08 July 2019

Full name : Chandra Namuduri
Residence : Troy, MI

Inventor's signature _____ Date _____

Full name : Sharon Xiaobin Li
Residence : Bloomfield Hills, MI

Inventor's signature _____ Date _____

Full name : Michael C. Zumbaugh
Residence : Troy, MI

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Full name : Lei Hao
Residence : Troy, MI

Inventor's signature _____ Date _____

Full name : Wei Zeng
Residence : Oakland Township, MI

Inventor's signature _____ Date _____

Full name : Chandra Namuduri
Residence : Troy, MI

Inventor's signature _____ Date _____

Full name : Sharon Xiaobin Li
Residence : Bloomfield Hills, MI

Inventor's signature Michael C. Zumbaugh Date July 16, 2019

Full name : Michael C. Zumbaugh
Residence : Troy, MI