504076792 11/01/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT4123459 Stylesheet Version v1.2

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
STEVEN J. HAASE	10/05/2016
DONAVAN L. DIBBLE	10/19/2016
ALLAN B. RAYL	10/05/2016

RECEIVING PARTY DATA

Name:	GM GLOBAL TECHNOLOGY OPERATIONS LLC	
Street Address:	300 RENAISSANCE CENTER	
City:	DETROIT	
State/Country:	MICHIGAN	
Postal Code:	48265	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15298542

CORRESPONDENCE DATA

Fax Number: (650)842-1301

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

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (650)842-1300

Email: kbartlett@beyerlaw.com
Correspondent Name: BEYER LAW GROUP LLP

Address Line 1: 2595 EAST BAYSHORE ROAD SUITE #100

Address Line 4: PALO ALTO, CALIFORNIA 94303

ATTORNEY DOCKET NUMBER: TULAP057A

NAME OF SUBMITTER: STEVE D BEYER

SIGNATURE: /Steve D Beyer/

DATE SIGNED: 11/01/2016

Total Attachments: 2

source=TULAP057A_GM_ASSIGN_DIBBLE_HAASE_RAYLE_SIGNED#page1.tif source=TULAP057A_GM_ASSIGN_DIBBLE_HAASE_RAYLE_SIGNED#page2.tif

PATENT 504076792 REEL: 040189 FRAME: 0679

ASSIGNMENT OF PATENT APPLICATION

Whereas I, an undersigned inventor, have invented cenain new and useful improvements as set forth in the patent application entitled:

COORDINATION OF VEHICLE ACTUATORS DURING FIRING FRACTION TRANSITIONS

(Arty, Docket No. TULAP057A), (check one)				
for which I have executed a U.S. patent application on even date herewith. (Accompanying) which bears U.S. Application No. 15/298,542. (Not accompanying) which is a U.S. provisional application. (Accompanying)				
For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, hereby:				
1) Sell, assign and transfer to <u>GM Global Technology Operations LLC</u> , a corporation having a place of business at 300 Renaissance Center, Detroit, Michigan 48265 ("ASSIGNEE"), the entire right, title and interest in any and all improvements and inventions disclosed in, applications based upon, and patents granted upon (including foreign patents and the right to claim priority), the above-referenced application.				
2) Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any division, continuation, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.				
3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.				
4) Agree that the terms, covenants and conditions of this Assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.				
5) Warrant and represent that I have not entered and will not enter into any assignment, contract or understanding that conflicts with this Assignment.				
6) Anthorize and request my attorney/agent to insert above the Application No. in order to assist with recordal of this assignment.				
Signed on the date indicated beside my signature.				
1) Signature: Date: Date:				
2) Signature: October CDU Date: 10-19-16 Typed Name: Donavan L. DIBBLE				
3) Signature: Date: Date: Typed Name: Allen B. RAYL				

Page 1 of 1

Attorney Docket No.: TULAP057A.

PATENT REEL: 040189 FRAME: 0680

ASSIGNMENT OF PATENT APPLICATION

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

COORDINATION OF VEHICLE ACTUATORS DURING FIRING FRACTION TRANSITIONS

(Atty.	Docket No. TULAP057A), (check one)			
	for which I have executed a U.S. patent application on which bears U.S. Application No. 15/298,542 (Not accompanying) which is a U.S. provisional application. (Accompanying)	even date herewith. (Accompanying) companying)		
For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, hereby:				
right, upon,	1) Sell, assign and transfer to <u>GM Global Technology Operations LLC</u> , a corporation having a place of business at 300 Renaissance Center, Detroit, Michigan 48265 ("ASSIGNEE"), the entire right, title and interest in any and all improvements and inventions disclosed in, applications based upon, and patents granted upon (including foreign patents and the right to claim priority), the above-referenced application.			
2) Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any division, continuation, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.				
3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.				
4) Agree that the terms, covenants and conditions of this Assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.				
5) Warrant and represent that I have not entered and will not enter into any assignment, contract, or understanding that conflicts with this Assignment.				
6) Authorize and request my attorney/agent to insert above the Application No. in order to assist with recordal of this assignment.				
Signe	d on the date indicated beside my signature.			
1)	Signature: Typed Name: Steven I. HAASE	Date: <u>050CT/6</u>		
2)	Signature: Typed Name: Donavan L. DIBBLE	Date:		
3)	Signature: A.A. B. P.	Date: OF DAT //		

Attorney Docket No.; TULAP057A

RECORDED: 11/01/2016

Typed Name: Allen B, RAYL

Page 1 of 1

PATENT REEL: 040189 FRAME: 0681