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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ORHAN BULAN	07/24/2019
SHEETAL MAHESH	07/23/2019
YEHENEW G. MENGISTU	07/18/2019
MASON D. GEMAR	07/29/2019
DAVID H. CLIFFORD	07/24/2019

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16533274

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ATTORNEY DOCKET NUMBER:	P049810-US-NP
NAME OF SUBMITTER:	USHA MUNUKUTLA-PARKER
SIGNATURE:	/Usha Munukutla-Parker/
DATE SIGNED:	08/06/2019

Total Attachments: 3

PATENT REEL: 049978 FRAME: 0233

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> PATENT REEL: 049978 FRAME: 0234

ASSIGNMENT

Pursuant to an agreement with my employer, I formally assign to GENERAL MOTORS LLC, the entire right, title and interest, in all countries and application types, in the improvements set forth in the United States patent application P049810-US-NP entitled

ESTIMATION OF ROAD CENTERLINE BASED ON VEHICLE TELEMETRY

practitioner associate	a declaration. If the patent application hat a declaration of the ed with Customer No. 80748 to insert the ere in parentheses (16/533,274fi	application number and filing date
	<u> </u>	
Inventor's signature		Date 7/24/19
Full name :	ORHAN BULAN	
Residence:	NOVI, MICHIGAN	
Inventor's signature		Date
Full name ;	SHEETAL MAHÈSH	
Residence:	PFLUGERVILLE, TEXAS	
Inventor ⁱ s signature	- Yehenew	Date
Full name :	YEHENEW G. MENGISTU	
Residence:	STERLING HEIGHTS, MICHIGAN	
Inventor's signature		Date
Full name :	MASON D. GEMAR	
Residence :	AUSTIN, TEXAS	
Inventor's signature	9	Date 7/24/19
Full name :	DAVID.H. CLIFFORD	
Residence :	ROYAL OAK, MICHIGAN	

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Inventor's signature		Date
Full name :	ORHAN BULAN	
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Inventor's signature		Date
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Inventor's signature		Date
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PATENT REEL: 049978 FRAME: 0236

ASSIGNMENT

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ESTIMATION OF ROAD CENTERLINE BASED ON VEHICLE TELEMETRY

practifioner associate	a declaration. If the patent application has been distributed with Customer No. 80748 to insert the apprecia parentheses (16/533,274 filed)	plication number and filing date
Inventor's signature		Date
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PATENT REEL: 049978 FRAME: 0237

RECORDED: 08/06/2019