# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	<b>Execution Date</b>
FRANZ-JOSEF ULM	12/06/2021

# **RECEIVING PARTY DATA**

Name:	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
Street Address:	77 MASSACHUSETTS AVENUE	
City:	CAMBRIDGE	
State/Country:	MASSACHUSETTS	
Postal Code:	02139	

# **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	16769040	

# **CORRESPONDENCE DATA**

Fax Number:

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.

Email: kimeli@rennerotto.com
Correspondent Name: KATHRYN J IMELI
Address Line 1: 1621 EUCLID AVE

Address Line 4: CLEVELAND, OHIO 44115

ATTORNEY DOCKET NUMBER:	UMDSP0107US01
NAME OF SUBMITTER:	KATHRYN J. IMELI
SIGNATURE:	/Kathryn J. Imeli/
DATE SIGNED:	12/09/2021

**Total Attachments: 1** 

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PATENT REEL: 058344 FRAME: 0490

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#### ASSIGNMENT OF PATENT APPLICATION

#### WHEREAS:

NAME, STATE OF INCORPORATION AND ADDRESS OF ASSIGNOR

Franz-Josef Ulm

c/o Massachusetts Institute of Technology

77 Massachusetts Avenue Cambridge, MA 02139

(hereinafter referred to as ASSIGNOR), is the joint inventor of International Patent Application

No. PCT/US2018/063783 entitled:

TITLE OF INVENTION

METHOD TO MEASURE ROAD ROUGHNESS CHARACTERISTICS AND PAVEMENT

INDUCED VEHICLE FUEL CONSUMPTION

PARTICULARS OF APPLICATION

which patent application was filed on December 4, 2018, and

WHEREAS:

NAME, STATE OF INCORPORATION AND ADDRESS OF ASSIGNEE

Massachusetts Institute of Technology 77 Massachusetts Avenue Cambridge, MA 02139

(hereinafter referred to as ASSIGNEE), is desirous of acquiring ASSIGNOR's entire interest in, to and under said above-identified application and the invention covered thereby.

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, I, the undersigned joint inventor (herein referred to "ASSIGNOR"), hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, ASSIGNOR's entire worldwide right, title, and interest in and to the above-identified invention (hereinafter referred to as "INVENTION"), the above-identified application (hereinafter referred to as "APPLICATION"), and any and all other patent applications and patents for the INVENTION which may be applied for or granted therefor in any and all countries and jurisdictions. including all divisions, continuations, continuations-in-part, reissues, reexaminations, renewals. extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents, and further including any right to sue for past infringement. In addition, I hereby authorize and request any official whose duty it is to issue patents, to issue any patent on said improvements or resulting therefrom to said ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and I agree to execute any and all documents, oaths and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the INVENTION, the APPLICATION, and all related patents and applications. in ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by ASSIGNEE, its successors, legal representatives, and assigns.

ASSIGNOR hereby covenants that no assignment, sale, agreement, or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

NAME OF ASSIGNOR	Franz-Josef Ulm			
	Signature: Franz Ulan	Date:	12/06/2021	
	0			
NAME OF WITNESS				
	Signature:	Date:_		

PATENT REEL: 058344 FRAME: 0491

**RECORDED: 12/09/2021**