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SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY D	ATA				
		Name		Execution Date	
DANIEL R. VANDENBEI	RGE			02/08/2019	
RECEIVING PARTY DA	ТА				
Name:	TENNESSEE TECHNOLOGICAL UNIVERSITY				
Street Address:	1 WILLIAM JONES DRIVE				
City:	COOKEVILLE				
State/Country:	TENNESSEE				
Postal Code:	38505				
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PROPERTY NUMBERS	Total: 2	Number			
Property Type Application Number:		Number			
Addition number:	162	2751419			
		3114376			
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Assignment of Patent Rights

WHEREAS I, Daniel R. VandenBerge, having an address of 709 West Little John LN Cookeville, TN 38501, am an inventor of certain new and useful improvements which can be described as 'In-Situ Stress Rock Fracture Sensing With High-Definition Fiber Optic Sensing (Hd-Fos) Technology' for which a so-entitled U.S. provisional patent application was filed in the United States Patent and Trademark Office on August 29, 2017 under Application No. 62/551,419 and for which a U.S. regular patent application entitled 'Distributed Measurement Of Minimum And Maximum In-Situ Stress In Substrates' is being concurrently executed herewith and;

WHEREAS my employer, Tennessee Technological University ("TTU"), having a place of business at 1 William L Jones Drive, Box 5036, Cookeville, TN 38505, desires to acquire the full and exclusive right in and to the invention and the entire right, title and interest in and to any Letters Patent which may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW THEREFORE, I hereby do sell, assign and transfer unto Tennessee Technological University, 1 William L Jones Drive Box 5036, Cookeville, TN 38505 the full and exclusive right in and to the invention in the United States and its territorial possessions and in any and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefore in the United States and its territorial possessions and in any and all foreign countries, substitutions, renewals and reissues related thereto.

I hereby authorize and request officials of the patent offices of the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to TTU as the assignee of my entire right, title and interest in and to the same, for the sole use and advantage of TTU and TTU's successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.

I agree that I will communicate to TTU or representatives of TTU any facts known to me respecting the invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to TTU, make all rightful oaths, and, generally, do what is necessary and proper to aid TTU and TTU's successors and assigns, to obtain and enforce proper protection for the invention in the United States and its territorial possessions and in any and all foreign countries.

Full name of inventor: Daniel Roy VandenBerge
Inventor's Signature Date: 2/8/19
Resident: <u>Captre ville, TN</u>
Post Office Address: 709 West Little John Ln, Cookeville TN 38501
Citizenship: United States
State of Tennessee County of Pathane

This the day of the branching of the branching of the county and State aforesaid, the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

Notary Public A Francial
My Commission Expires 9/21/20
SEAL
RECORDED: 11/04/2020 REEL:

PATENT REEL: 054271 FRAME: 0711