505788080 11/22/2019 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5834908

NATURE OF CONVEYANG		NEW ASSIGNMENT					
CONVEYING PARTY DA	NATURE OF CONVEYANCE:		EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE				
	ТА						
		Name	Execution Date				
MICHIGAN STATE UNIVE	ERSITY		08/07/2018				
RECEIVING PARTY DAT	A						
Name:	UNITED STATES DEPARTMENT OF ENERGY						
Street Address:	1000 INDEPENDENCE AVE. S.W.						
City:	WASHINGTON						
State/Country:	D.C.						
Postal Code:	20585						
Application Number:	1:	3835382					
	6) sent to t rovided; (6 C T 99 ال	630)252-2779 The e-mail address first; if that is if that is unsuccessful, it will be 630) 252-2137 onfirmatory.License@science.doe IMOTHY L HARNEY 800 S. CASS AVE PLD RGONNE, ILLINOIS 60439	e sent via US Mail.				
Fax Number: <i>Correspondence will be</i> <i>using a fax number, if pr</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	(6 <i>sent to t</i> rovided; (6 C T 9 IF A	the e-mail address first; if that is if that is unsuccessful, it will be 330) 252-2137 onfirmatory.License@science.doe IMOTHY L HARNEY 800 S. CASS AVE PLD	e sent via US Mail.				
Fax Number: <i>Correspondence will be</i> <i>using a fax number, if pr</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET NUM	(6 <i>sent to t</i> rovided; (6 C T 9 IF A	the e-mail address first; if that is if that is unsuccessful, it will be 330) 252-2137 onfirmatory.License@science.doe IMOTHY L HARNEY 800 S. CASS AVE PLD RGONNE, ILLINOIS 60439	e sent via US Mail.				
Fax Number: Correspondence will be using a fax number, if pr Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	(6 <i>sent to t</i> rovided; (6 C T 9 IF A	the e-mail address first; if that is if that is unsuccessful, it will be 530) 252-2137 onfirmatory.License@science.doe IMOTHY L HARNEY 800 S. CASS AVE PLD RGONNE, ILLINOIS 60439	e sent via US Mail.				

License to the United States Government

Sign and submit the executed document to the appropriate funding agency (e.g. upload in iEdison).

Invention Title: Densified Riomass Products Containing Pretreated Biomass Fibers

Invenior(s): Bruce E Dale, Bryan K Ritchie, Derek J Marshall

U.S. Filing/Issue Date: 03/15/2013

Patent or Application Serial No.: 13/835, 382

Grant/Contract Number(s): DE-FG36-08G088073, DE-FC02-07ER64494

Foreign Applications filed/intended in (countries):

The invention identified above is a Subject Invention under 35 U.S.C. 200, et seq., and the Standard Patent Rights clause at 37 CFR 401.14, FAR 52.227-11 or FAR 52.227-12 (if applicable) which are included among the terms of the above identified grant or contract award from the United States Government. This document is confirmatory of:

- The nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the invention described in any patent application and in any and all divisions, continuations, and continuations in part, and in any and all patents and re-issues granted thereon throughout the world; and
- All other rights acquired by the Government by reason of the above identified grant/contract award and the laws and regulations that are applicable to the award.

The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application.

Signed this	71	day of	August		. 20	18	
By <u>Richard W. Chyll</u>					urly	ali i	
(Institutiona	I Business Of	ficial)			(Signatur	(e)	
Title <u>Executive Direc</u>	tor, MSU Te	chnologies			~		
For MICHIGAN STATE	UNIVERSIT	i.					
(Grantee/	Contractor O	rganization)					
ALMSU Technologie:	325 East	Grand Riv	er East	Lansing,	MI 488;	2.3	

(Business Address)

RECORDED: 11/22/2019