# 504950873 06/08/2018

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4997620

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
DAVID JOHNSEN	10/25/2016

### **RECEIVING PARTY DATA**

Name:	MARKWEST ENERGY PARTNERS, L.P.
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## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16003250

### **CORRESPONDENCE DATA**

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NAME OF SUBMITTER:	JEFFREY S. WHITTLE
SIGNATURE:	/Jeffrey S. Whittle/
DATE SIGNED:	06/08/2018

**Total Attachments: 3** 

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PATENT 504950873 REEL: 046024 FRAME: 0426

Docket No. 038078,000014

#### ASSIGNMENT

WHEREAS, I, David Johnsen (hereafter "Assignor"), a citizen of the United States of America, am the sole inventor of a SYSTEM, METHOD, AND APPARATUS FOR DETERMINING AIR EMISSIONS DURING PIG RECEIVER DEPRESSURIZATION for United States Letters Patent No. 62/351,852 which was filed on June 17, 2016, and for which a second application for United States Letters Patent under a similar title also is filed herewith; and

WHEREAS, MarkWest Energy Partners, L.P., with a business address of 1515 Arapahoe Street, Tower 1, Suite 1600, Denver, CO 80202 (hereafter "Assignee"), is desirous of acquiring the entire right, title, and interest in and to the aforesaid inventions throughout the world, and all right, title, and interest in, to and under any and all Letters Patent of the United States and all other countries throughout the world;

NOW, THEREFORE, be it known that, for good and valuable consideration, the adequacy, receipt, and legal sufficiency of which from Assignee are each hereby acknowledged, I, as Assignor, sell, assign, transfer, and set over to Assignee, all right, title, and interest in and to the said inventions throughout the world, and said application for U.S. Letters Patent, and any and all additional provisionals, non-provisionals, divisions, continuations, continuations-in-part, reissues, extensions, reexaminations, post-grant proceeding, derivations, or other inter-parties review proceedings thereof, and any and all Letters Patent of the United States and foreign countries which may be granted therefor, the same to be held and enjoyed by them for their own use and benefit, and for the use and benefit of their successors, assigns, or other legal representatives, to the end of the term or terms for which said Letters Patent of the United States or foreign countries are or may be granted, reexamined, or reissued, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made.

And I hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States and any foreign patent offices on said inventions or resulting from said applications and from any and all additional provisional, non-provisionals, divisions, continuations, continuations-in-part, reissues, extensions, reexaminations, post-grant proceeding, derivations, or other inter-parties review proceedings thereof, to Assignee, as assignee of my entire interest, and hereby covenant that I have the full right to convey the entire interest herein assigned, and that I have not executed and will not execute any agreement in conflict herewith.

> PATENT REEL: 046024 FRAME: 0427

### Docket No. 038078,000014

And I further hereby covenant and agree that I will, at any time, upon request, execute and deliver any and all papers that may be necessary or desirable to perfect the title of said inventions and to such Letters Patent as may be granted therefor, to Assignee or its successors, assigns, or other legal representatives and that if Assignee or its successors, assigns, or other legal representatives shall desire to file any additional provisional, non-provisional, divisional, continuation, continuation-in-part, or extension applications or to secure an ex parte or inter partes reexamination, reissue, post grant proceeding, or derivation proceeding of such Letters Patent, or to file a disclaimer relating thereto, will, upon request, sign all papers, make all rightful oaths, and do all lawful acts requisite for the filing of such divisional or continuation application, or such application for reissue and the procuring thereof, and for the filing of such disclaimer, without further compensation but at the expense of Assignee or its successors, assigns, or other legal representatives.

And I do further covenant and agree that I will, at any time upon request, communicate to Assignee or its successors, assigns, or other legal representatives, such facts relating to said inventions and Letters Patent or the file history thereof as may be known to us, and testify as to the same in any interference, litigation, or other proceeding when requested so to do, without further compensation but at the expense of Assignee or its successors, assigns, or other legal representatives.

	EXECUTED TH	HIS _ 18 day of	October	, 2016.	
			]	David Johnsen (Assignor)	
Date:	10/2 16</td <td></td> <td>Signature: Na</td> <td>and Johan</td> <td></td>		Signature: Na	and Johan	
satisfac hat he	tory evidence) to be t	the person whose name is: /ITNESS my hand and off	subscribed to the within ins	undersigned Notary Public, ne (or proved to me on the basis of strument, and acknowledged to me County of on	ę
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NOTARY PUBLIC - STATE OF ILLINOIS

MY COMMISSION EXPIRES:07:02:37

REEL: 046024 FRAME: 0428

OFFICIAL SEAL ELIZABETH J ZDYBEL NOTARY PUBLIC - STATE OF ILLINOIS

MY COMMISSION EXPIRES:07/02/17

Docket No. 038078.000014

Date: <u>00to ber 25, 2016</u>	MarkWest Energy Partners, L.P. (Assignee) Signature:
,	Title: MANAGING GRANSEL
On this 25 day of October before me, personally appeared October Deed Cinkus ASSIGNEE satisfactory evidence) to be the person whose name is subthat he executed the same. WITNESS my hand and official the date set forth in this certificate.  Notary Public	, personally known to me (or proved to me on the basis of scribed to the within instrument, and acknowledged to me

Page 3 of 3

PATENT REEL: 046024 FRAME: 0429