

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT4448001

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DAVID A. MOGAN	03/20/2014
WILLIAM J. MCDANIEL	02/11/2014
JAMES A. SCOBAY	05/27/2014
PATRICK J. FEIN	05/27/2014
WILLIAM J. AKERS	01/31/2014
BRENT H. SEBRIGHT	05/27/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HERITAGE ENVIRONMENTAL SERVICES, INC.
<b>Street Address:</b>	7901 WEST MORRIS STREET
<b>City:</b>	INDIANAPOLIS
<b>State/Country:</b>	INDIANA
<b>Postal Code:</b>	46231
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	13998525
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(317)231-7433
<i>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.</i>	
<b>Phone:</b>	(317) 231-7426
<b>Email:</b>	DARLA.HOFHEINS@BTLAW.COM
<b>Correspondent Name:</b>	BARNES & THORNBURG LLP
<b>Address Line 1:</b>	11 S MERIDIAN STREET
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<b>ATTORNEY DOCKET NUMBER:</b>	68131-227284
<b>NAME OF SUBMITTER:</b>	SCOTT M. SIMMONDS
<b>SIGNATURE:</b>	/Scott M. Simmonds/
<b>DATE SIGNED:</b>	06/07/2017
<b>Total Attachments: 7</b>	

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**ASSIGNMENT**

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged,

Name(s) of Inventor(s) David A. MOGAN, Patrick J. FEIN  
William J. McDANIEL, William J. AKERS, and  
James A. SCOBAY, Brent H. SEBRIGHT

Check applicable boxes and enter serial number and date if available maker(s) of an invention which is the subject of a ☒ United States Provisional Patent Application identified as Serial No. 61/723,532 with a filing date of November 7, 2012 and/or a ☒ PCT International Application Serial No. PCT/US2013/000252 with a filing date of November 7 2013, entitled

Title of Application VERTICAL SHAFT IMPACTOR  
hereinafter (the "Application(s)")  
the undersigned hereby sell(s), assign(s), and set(s) over to

Name of Assignee HERITAGE ENVIRONMENTAL SERVICES, INC.

Address of principal place of business 7901 West Morris Street  
Indianapolis, IN 46231

Insert State of Incorporation (if applicable) or "Not Applicable" a corporation of Indiana

(hereinafter designated as the Assignee) their entire right, title and interest in, to and under the Application(s), including all priority rights for the United States and other countries arising therefrom, all inventions therein disclosed, and any and all Letters Patent of the United States and of all other countries, including Canada and Mexico, which may be granted for such inventions, or any of them, all such inventions and all rights in such Application(s) and Letters Patent to be held and enjoyed by Assignee for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by them had this assignment and sale not been made.

The undersigned agree(s) to execute all papers necessary in connection with the Application(s) in the United States and counterpart applications in foreign countries and any continuing, divisional, or reissue applications thereof, and any reexamination of any of such Applications, and also to execute separate assignments in connection with such Applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared or litigation concerning the Application(s), U.S. national counterparts thereof, or continuation(s), division(s), reissue(s), reexamination(s) thereof, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or litigation.

PROVISIONAL/PCT PATENT APPLICATION  
ASSIGNMENT TO BUSINESS CONCERN

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to do all other acts which, in the opinion of Assignee, may be necessary or desirable to secure the grant of Letters Patent to Assignee or its nominees, in the United States and in all other countries where Assignee may desire to have such inventions, or any of them, patented, with specifications and claims in such form as shall be approved by Assignee and to vest and confirm in Assignee or its nominees the full and complete legal and equitable title to all such Letters Patent.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting or following from said Application(s) or any division or divisions or continuing or reissue applications thereof, and any reexamination of any of such applications, to the said Assignee, as Assignee of the entire interest, and hereby covenants that the undersigned has full right to convey the interest herein assigned, and that the undersigned has not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the attorney of record the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, I have executed this assignment at Indianapolis, IN U.S.A.  
his 20<sup>th</sup> day of March, 2014.

Outside the USA:

Witnesses are  
required when  
acknowledgment  
before a Notary  
Public is not  
feasible.

Witness

Witness

David A. Mogan  
Inventor (Signature)

David A. MOGAN

Inventor (Printed Name)

ACKNOWLEDGMENT

STATE OF }  
COUNTY OF } SS:

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal

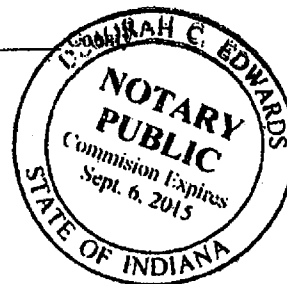
this 20<sup>th</sup> day of March, 2014.

Deborah C Edwards  
Notary Public

Deborah C Edwards  
Printed Name

My Commission Expires: 09-06-2015

Resident of Marion



IN WITNESS WHEREOF, I have executed this assignment at Indianapolis IN U.S.A.  
this 11<sup>th</sup> day of February, 2014.

Outside the USA:

Witnesses are

required when  
acknowledgment  
before a Notary

Public is not  
feasible.

Witness

W. J. McDaniel  
Inventor (Signature)

William J. McDANIEL

Inventor (Printed Name)

#### ACKNOWLEDGMENT

STATE OF Indiana }  
COUNTY OF marion }

SS:

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal

this 11<sup>th</sup> day of February, 2014.

Linda A. Staley  
Notary Public

LINDA A. STALEY  
Printed Name

My Commission Expires: 3-25-15

Resident of marion County

IN WITNESS WHEREOF, I have executed this assignment at Hopkins, Michigan U.S.A.  
his 27th day of May, 2014.

Outside the USA:

Witnesses are

required when

acknowledgment

before a Notary

Public is not

feasible.

Witness

Inventor (Signature)

James A. SCOBRY

Inventor (Printed Name)

ACKNOWLEDGMENT

STATE OF Michigan }  
COUNTY OF Allegan }

SS:

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal

this 27th day of May, 2014.

**E. JANE SIMPSON**  
**NOTARY PUBLIC**  
**ALLEGAN CO., MI**  
**MY COMM. EXP. 7-08-2017**

E. Jane Simpson  
Notary Public

E. Jane Simpson  
Printed Name

My Commission Expires: 07-06-2017

Resident of Allegan County

PATENT

REEL: 042630 FRAME: 0575

IN WITNESS WHEREOF, I have executed this assignment at Hopkins Michigan, U.S.A.

his 27th day of May, 2014

Outside the USA: \_\_\_\_\_  
Witnesses are required when acknowledgment before a Notary Public is not feasible.  
\_\_\_\_\_ Witness

Patrick Fein  
Inventor (Signature)

Patrick John FEIN  
Inventor (Printed Name)

ACKNOWLEDGMENT

STATE OF Michigan }  
COUNTY OF Allegan } SS:

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal

this 27th day of May, 2014

**E. JANE SIMPSON**  
**NOTARY PUBLIC**  
**ALLEGAN CO., MI**  
**MY COMM. EXP. 7-06-2017**

E. Jane Simpson  
Notary Public

E. Jane Simpson  
Printed Name

My Commission Expires: 7-06-2017

Resident of Allegan County

IN WITNESS WHEREOF, I have executed this assignment at Kansas City, MO, U.S.A.

This 31<sup>st</sup> day of January, 2014.

Outside the USA: \_\_\_\_\_  
Witnesses are required when acknowledgment before a Notary Public is not feasible.  
\_\_\_\_\_ Witness

William Jeffery AKERS  
Inventor (Signature)

William Jeffery AKERS  
Inventor (Printed Name)

ACKNOWLEDGMENT

STATE OF Missouri }  
COUNTY OF Jackson } SS:

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal

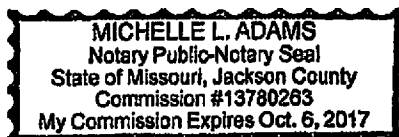
this 31<sup>st</sup> day of January, 2014.

Michelle L. Adams  
Notary Public

Michelle L. Adams  
Printed Name

My Commission Expires: 10/6/2017

Resident of Jackson County





IN WITNESS WHEREOF, I have executed this assignment at Hopk. 275 Michigan U.S.A.  
his 27th day of MAY 2014

Outside the USA:

Witnesses are

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acknowledgment

before a Notary

Public is not

feasible.

Witness

Inventor (Signature)

Brent H. Sebright

Inventor (Printed Name)

#### ACKNOWLEDGMENT

STATE OF Michigan }

SS:

COUNTY OF Allegan }

Acknowledged before me, a Notary Public, within and for said County and State. Witness my hand and Notarial Seal

this 27th day of May 2014

**E. JANE SIMPSON**  
**NOTARY PUBLIC**  
**ALLEGAN CO., MI**  
**MY COMM. EXP. 7-06-2017**

Notary Public

Printed Name

My Commission Expires: 7-06-2017

Resident of Allegan County

INDS02 1304241v1

RECORDED: 06/07/2017

PATENT  
REEL: 042630 FRAME: 0578