# PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Michael J. Rutsch	04/29/2011
Craig Clerkin	04/01/2011
Bernard F. Duesel Jr.	04/16/2011

# RECEIVING PARTY DATA

Name:	HEARTLAND TECHNOLOGY PARTNERS LLC
Street Address:	9870 Big Bend Blvd.
Internal Address:	P.O. Box 220842
City:	Kirkwood
State/Country:	MISSOURI
Postal Code:	63122

### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12043786

# CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	31628/30007A
NAME OF SUBMITTER:	Michael A. Chinlund

#### Total Attachments: 4

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**REEL: 026222 FRAME: 0169** 

**PATENT** 501520075

#### ASSIGNMENT

Serial No:

12/043,786

Filed:

March 6, 2008

Title:

Methods of Reducing Greenhouse Gases in Landfills and Coal Mines

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assign to HEARTLAND TECHNOLOGY PARTNERS LLC, 9870 Big Bend Blvd., P.O. Box 220842, Kirkwood, Missouri 63122 (hereinafter "Assignee"), its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for letters patent of the United States and in said application and any and all other applications, both in the United States and in other countries, which the undersigned may file or be named as an inventor, either solely or jointly with others, on said invention or improvements, and in any and all letters patent of the United States and other countries, which may be obtained on any of said applications, and in any reissue or extension thereof.

The undersigned hereby authorize and request the Commissioner for Patents to issue said letters patent to said Assignee.

The undersigned warrant themselves to be the owners of the interest herein assigned and to have the right to make this assignment and further warrant that there are no outstanding prior assignments, licenses, or other rights in the interest herein assigned except in favor of Assignee.

For said consideration the undersigned hereby agree, upon the request and at the expense of said Assignee, its successors and assigns, to execute any and all applications on said invention or improvements, and any necessary oath or affidavit relating thereto, and any application for the reissue or extension of any letters patent that may be granted upon any and all of said applications, and any and all applications and other documents for letters patent in other countries on said invention or improvements, that said Assignee, its successors or assigns, may deem necessary or expedient, and for said consideration the undersigned further agree upon the request of said Assignee, its successors or assigns, in the event of any application or letters patent assigned herein becoming involved in Interference or Opposition, to cooperate to the best of the ability of the undersigned with said Assignee, its successors or assigns, in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, the undersigned hereby agreeing to perform, upon request, any and all affirmative acts to obtain said letters patent, both in the United States and in other countries, and vest all rights therein hereby conveyed in said Assignee, its successors and assigns, whereby said letters patent will be held and enjoyed by said Assignee, its 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 and enjoyed by the undersigned if this assignment and sale had not been made.

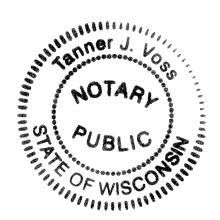
WIT	TNESS our hands this	****	29	day of	APRIL,	2011.
State of County of	PennsyLvar Allegher	via	M	Yuha ichael J. Rut	S Aft	J
Notary Public persons whose instrument as	On this  in and for the County e names are subscribed their free and voluntar TNESS my hand and se	I to the foregoing act and for the	g instrument, a e uses and purp	and acknowl ooses therein	ledged that they exec n expressed.	ie same
My Commiss	ion Expires:	02-09	2012	Sa,	Messel Delic Notary Public	medetto

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal

Darlene DeBenedetto, Notary Public
City of Pittsburgh, Allegheny County
My Commission Expires Feb. 9, 2012

WITNESS our hands this	day of $\frac{Qpn}{}$ , $\frac{ZQ}{}$ .
State of Wirwinsin County of Mane	- Cruz alele
	Craig Clerkin
Notary Public in and for the County and Sta persons whose names are subscribed to the instrument as their free and voluntary act an	ay of
My Commission Expires:	/8/15 Notary Public



WITNESS our hands this	16th day of April, 2011.
State of New YMC County of Ovange	Bernard F. Duesel, Jr.
Notary Public in and for the County and State afo	resaid, appeared, to me personally known to be the same bing instrument, and acknowledged that they executed said the uses and purposes therein expressed. ay and year last above given.
My Commission Expires:	8,2014 Male F. Sanuli Notary Public
	MARLA F. BARNIK Notary Public, State of New York No. 01BA4911656 Qualified in Orange County Commission Expires February 8.

PATENT REEL: 026222 FRAME: 0173

**RECORDED: 05/04/2011**