

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
VICTOR VARGAS	11/21/2016
CHRIS LARSEN	11/21/2016
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15276076
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<b>SIGNATURE:</b>	/Scarlett Pereida/
<b>DATE SIGNED:</b>	12/02/2016
<b>Total Attachments: 3</b>	
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ASSIGNMENT

WHEREAS, I the undersigned inventor of residence as listed, have invented certain new and useful improvements as below entitled, for which an application for United States Letters Patent is made, said application having been designated as set forth below and filed on or about the date set forth below; and

WHEREAS, **HARSCO TECHNOLOGIES LLC** (hereinafter referred to as "Assignee"),

with an address of:

415 North Main Street  
Fairmont, MN 56031  
United States of America

desires to acquire the entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent(s) that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I assign to Assignee, all right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, continuations, continuations-in-part and extensions thereof; and I authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as my interest is concerned, to Assignee.

I also assign to Assignee, all right, title and interest in and to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world, including all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and we further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee.


I will communicate to Assignee any facts known to us respecting any improvements; and, at the expense of Assignee, we will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make lawful oaths and declarations, and generally do everything possible to vest title in Assignee and to aid Assignee to obtain and enforce proper protection for said invention in all countries.

This Assignment shall be binding on the parties' successors, assigns and legal representatives.

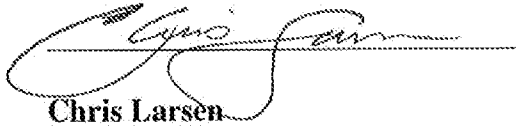
**Invention Name:** STONEBLOWER FOR RAIL APPLICATIONS  
**Serial No.:** 15/276,076  
**Date Filed:** September 26, 2016

We hereby grant KEVIN O'BRIEN, Registration No. 30,578; JOHN G. FLAIM, Registration No. 37,323; BRIAN C. McCORMACK, Registration No. 36,601; WILLIAM D. McSPADDEN, Registration No. 44,234; GUY F. BIRKENMEIER, Ph.D. J.D., Registration No. 52,622; RICHARD V. WELLS, Registration No. 53,757; MATTHEW S. DUSHEK, Registration No. 61,921, SREENIVAS VEDANTAM, Registration No. 66,876, CHARLES LIU, Registration No. L0910, VICTOR WANG, Registration No. 64,626 and all practitioners with the firm of Baker & McKenzie LLP (Customer Number 23562) with an office at 2001 Ross Avenue, Suite 2300, Dallas, TX 75201, 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.

The undersigned further declares that all statements made herein of his/her own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful and false statements may jeopardize the validity of the application or any patent issued thereon.

**Signature of Inventor:**   
**Inventor(s) Name:** Victor Vargas  
**Residence:** 109 Hickory Knob Ct. West Columbia, SC 29170  
**Date:** 11/21/16

Signature of Inventor:



Inventor(s) Name:

Chris Larsen

Residence:

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Date:

11/21/16

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