

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5817204

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	RELEASE OF SECURITY INTEREST
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CITIBANK, N.A. AS COLLATERAL AGENT	11/12/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HARSCO TECHNOLOGIES LLC
<b>Street Address:</b>	415 NORTH MAIN STREET
<b>City:</b>	FAIRMONT
<b>State/Country:</b>	MINNESOTA
<b>Postal Code:</b>	56031
<b>Name:</b>	HARSCO MINERAL TECHNOLOGIES LLC
<b>Street Address:</b>	350 POPLAR CHURCH ROAD
<b>City:</b>	CAMP HILL
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	17011
<b>Name:</b>	HARSCO CORPORATION
<b>Street Address:</b>	350 POPLAR CHURCH ROAD
<b>City:</b>	CAMP HILL
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	17011
<b>PROPERTY NUMBERS Total: 6</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14559267
<b>Application Number:</b>	29524500
<b>Application Number:</b>	13034738
<b>Application Number:</b>	15728889
<b>Application Number:</b>	29606616
<b>Application Number:</b>	14976999
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	

PATENT

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<b>ATTORNEY DOCKET NUMBER:</b>	33750-8
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<b>NAME OF SUBMITTER:</b>	KIMBERLY BARR
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<b>SIGNATURE:</b>	/Kimberly Barr/
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<b>DATE SIGNED:</b>	11/13/2019
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	This document serves as an Oath/Declaration (37 CFR 1.63).
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**Total Attachments: 3**

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**PARTIAL TERMINATION AND RELEASE OF  
SECURITY INTEREST IN PATENT RIGHTS**

This **PARTIAL TERMINATION AND RELEASE OF SECURITY INTEREST IN PATENT RIGHTS**, dated as of November 12, 2019 (“Release”), is made by Citibank, N.A., as collateral agent for the Secured Parties (the “Agent”) in favor of Harsco Technologies LLC (the “Grantor”), Harsco Corporation and Harsco Minerals Technologies LLC.

**WHEREAS**, pursuant to that certain Grant of Security Interest in Patent Rights dated as of December 2, 2015 (the “First Security Agreement”) and that certain Grant of Security Interest in Patent Rights dated as of November 2, 2016 (the “Second Security Agreement”) (each as amended, restated, supplemented, modified, extended, renewed or replaced from time to time, the “Security Agreements”) among the Grantor, Harsco Corporation, Harsco Minerals Technologies LLC, and Citibank, N.A., as the collateral agent for the Lenders, the Grantor granted to the Agent, for the benefit of the Secured Parties, a security interest in, among other property, certain Intellectual Property, including but not limited to, the Patents listed on Schedule A;

**WHEREAS**, pursuant to the First Security Agreement, the Grantor executed and delivered to the Collateral Agent, for the benefit of the Secured Parties, the Grant of Security Interest in Patent Rights recorded at the United States Patent and Trademark Office (“USPTO”) on December 4, 2015 at reel/frame number 37212/0508; and

**WHEREAS**, pursuant to the Second Security Agreement, the Grantor executed and delivered to the Collateral Agent, for the benefit of the Secured Parties, the Grant of Security Interest in Patent Rights recorded at the USPTO on November 4, 2016 at reel/frame number 40567/0832.

**NOW THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Agent, on behalf of the Secured Parties, and the Grantor hereby agree as follows:

**SECTION 1. Defined Terms.** All capitalized terms used herein but not otherwise defined herein have the meanings given to them in the Security Agreements.

**SECTION 2. Termination and Release.** The Agent, on behalf of the Secured Parties, hereby:

(a) terminates, cancels, discharges, and releases the continuing security interest in all of the Grantor’s rights, title and interest in, to and under the Patents listed on Exhibit A; and

(b) authorizes the recordation, without further notice, of this Release with the USPTO at the Grantor’s expense.

**SECTION 3. Further Assurances.** The Agent, at the request and sole expense of the Company, agrees to deliver to the Grantor any additional releases or other documents reasonably necessary to terminate, cancel, discharge and release any security interest granted in favor of the Agent pursuant to the Security Agreements in the Grantor’s right, title and interest in, to and under the Patents listed on Exhibit A.

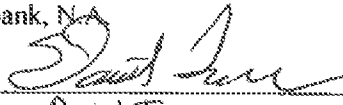
**SECTION 4. Choice of Law.** This Release shall be governed by and construed in accordance with the laws of the State of New York.

[Signature Page Follows]

IN WITNESS WHEREOF, the Agent, on behalf of the Secured Parties, has caused this Termination of Security Interest in Patent Rights to be duly executed as of the date first set forth above.

Collateral Agent:

Citibank, N.A.

By: 

Name: David Tucker

Title: Vice President

**Exhibit A  
Patents**

**Reel/Frame 37212/0508**

<b>Title:</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Registration No.</b>	<b>Issue Date</b>
Boiler Control System	14/559267	Dec. 3, 2015	9,822,986	Nov. 21, 2017
Boiler User Interface	29/524,500	Apr. 21, 2015	D806,728	Jan. 2, 2018

**Reel/Frame 40567/0832**

<b>Title:</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Registration No.</b>	<b>Issue Date</b>
Boiler Control System	14/559267	Dec. 3, 2015	9,822,986	Nov. 21, 2017
Boiler User Interface	29/524,500	Apr. 21, 2015	D806,728	Jan. 2, 2018
Multiple Ring Heat Exchanger	13/034,738	Feb. 25, 2011	9,074,792	Jul. 7, 2015

**Patents hereafter acquired and arising:**

<b>Title:</b>	<b>Application No.</b>	<b>Filing Date</b>	<b>Registration No.</b>	<b>Issue Date</b>
Boiler Control System	15/728,889	Oct. 10, 2017		
Boiler User Interface	29/606,616	Jun. 6, 2017	D820,299	Jul. 12, 2018
Hinge Apparatus	14/976,999	Dec. 21, 2015	10030890	Jul. 24, 2018