

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

Assignment ID: PATI786455

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	Clean Energy Systems, Inc.	01/24/2025
<b>RECEIVING PARTY DATA</b>		
<b>Company Name:</b>	Metal One Corporation	
<b>Street Address:</b>	7-2, Marunouchi 2-chome	
<b>City:</b>	Chiyoda-ku, Tokyo	
<b>State/Country:</b>	JAPAN	
<b>Postal Code:</b>	100-7032	
<b>PROPERTY NUMBERS Total: 5</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Patent Number:</b>	8522871	
<b>Patent Number:</b>	8936080	
<b>Patent Number:</b>	11488467	
<b>Application Number:</b>	18237057	
<b>PCT Number:</b>	US2330941	
<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>		
<b>Phone:</b>	(703)770-7900	
<b>Email:</b>	docket_ip@pillsburylaw.com,stephanie.goodson@pillsburylaw.com	
<b>Correspondent Name:</b>	Pillsbury Winthrop Shaw Pittman LLP	
<b>Address Line 1:</b>	PO Box 10500	
<b>Address Line 4:</b>	McLean, VIRGINIA 22102	
<b>ATTORNEY DOCKET NUMBER:</b>	046030-0000005	
<b>NAME OF SUBMITTER:</b>	Stephanie Goodson	
<b>SIGNATURE:</b>	/Stephanie Goodson/	
<b>DATE SIGNED:</b>	01/28/2025	
<b>Total Attachments: 4</b>		
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**PATENT**

**REEL: 070032 FRAME: 0645**

NOTICE  
OF  
GRANT OF SECURITY INTEREST  
IN  
PATENTS AND TRADEMARKS

United States Patent and Trademark Office

Ladies and Gentlemen:

Please be advised that pursuant to the Convertible Promissory Note dated as of December 5, 2022 (as the same may be amended, amended and restated, supplemented, extended or otherwise modified from time to time, the “Agreement”) by and among the Loan Parties party thereto (each, an “Obligor” and collectively, the “Obligors”) and Metal One Corporation (the “Secured Party”), the undersigned Obligor has granted, pledged and assigned to the Secured Party a continuing security interest in, and a right to set off against, any and all right, title and interest of such Obligor in and to (i) the patents and patent applications set forth on Schedule 1 hereto and (ii) the trademarks and trademark applications set forth on Schedule II hereto.

The undersigned Obligor and the Secured Party hereby acknowledge and agree that the security interest in the patents and patent applications set forth on Schedule 1 hereto the trademarks and trademark applications set forth on Schedule II hereto (a) may only be terminated in accordance with the terms of the Agreement and (b) is not to be construed as an assignment of any patent, patent application, trademark or trademark application.

*[Signature Pages Follow]*

Very truly yours,

**Clean Energy Systems, Inc.,**  
a Delaware corporation

By: Keith Pronske

Name: Keith L. Pronske

Title: Chief Executive Officer

Acknowledged and Accepted:

**Metal One Corporation,**  
as Secured Party

By: \_\_\_\_\_

Name:

Title:

NOTICE OF GRANT OF SECURITY INTEREST IN IP

**PATENT**  
**REEL: 070032 FRAME: 0647**

Very truly yours,

**Clean Energy Systems, Inc.,**  
a Delaware corporation

By: \_\_\_\_\_  
Name: Keith L. Pronske  
Title: Chief Executive Officer

Acknowledged and Accepted:

**Metal One Corporation,**  
as Secured Party

By: Atsuo U.  
Name: Atsuo Uchiyama  
Title: General Manager, Energy Project Business Unit

NOTICE OF GRANT OF SECURITY INTEREST IN IP

**PATENT**  
**REEL: 070032 FRAME: 0648**

**Schedule 1**

**U.S. Patents**

**Issued Patents**

Patent No.	Issue Date	Expiration Date	Status	Title
8,522,871	09/03/2013	03/04/2029	Active	Method of Direct Steam Generation Using an Oxyfuel Combuster
8,936,080	01/20/2015	03/04/2030	Active	Method of Direct Steam Generation Using an Oxyfuel Combuster
11,488,467	09/20/2022	09/27/2039	Active	Micro-Tube Metal Matrix Heat Exchanger and Method of Manufacture

**Patent Applications**

Application No.	Filing Date	Status	Title
18/237,057	08/23/2023	Pending	Lithium Extraction with an Oxy-Fuel Combuster
PCT/US23/30941	08/23/2023	Pending	Lithium Extraction with an Oxy-Fuel Combuster

**Schedule 1**

**U.S. Trademarks**

**Trademarks**

Registration No.	Registration Date	Status	Mark
2,728,294	06/17/2003	Active	CLEAN ENERGY SYSTEMS

**Trademark Applications**

Application No.	Filing Date	Status	Mark
97/808,667	02/23/2023	Pending, Allowed	WE DECARBONIZE EVERYTHING