PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7855228

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	CONFIRMATORY GRANT OF SECURITY INTEREST IN UNITED STATES PATENTS

CONVEYING PARTY DATA

Name	Execution Date
COMPRESSOR PRODUCTS INTERNATIONAL LLC	03/17/2023
HOWDEN ROOTS LLC	03/17/2023
CHART INC.	03/17/2023
CHART ENERGY & CHEMICALS, INC.	03/17/2023
BLUEINGREEN, LLC	03/17/2023

RECEIVING PARTY DATA

Name:	JPMORGAN CHASE BANK, N.A.
Street Address:	IL1-1145/54/63, P.O. BOX 6026
City:	CHICAGO
State/Country:	ILLINOIS
Postal Code:	60680-6026

PROPERTY NUMBERS Total: 52

Property Type	Number
Patent Number:	8997936
Patent Number:	9206796
Patent Number:	9212781
Patent Number:	9506602
Patent Number:	9709219
Patent Number:	9938969
Patent Number:	10208868
Patent Number:	10876685
Patent Number:	7096889
Patent Number:	7461670
Patent Number:	8720648
Patent Number:	8069950
Patent Number:	7806235
Patent Number:	8622082
Patent Number:	8555927
Patent Number:	8561477

PATENT

REEL: 063119 FRAME: 0571

507808098

Patent Number: D570236 Patent Number: D591627 Patent Number: D597630 Patent Number: D615619 Patent Number: D639193 Patent Number: D656224 Patent Number: 9790825 Patent Number: 10465687 Patent Number: 10465687 Patent Number: 11435034 Application Number: 17690363 Application Number: 17463334 Application Number: 17338816 Application Number: 17318323 Application Number: 17318323 Application Number: 17331681 Application Number: 17731337 Application Number: 17856287 Application Number: 17856287 Application Number: 17881117 Application Number: 17881117 Application Number: 17881117 Application Number: 1786842 Application Number: 17686842 Application Number: 17638489 Application Number:	Property Type	Number
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Patent Number: D639193 Patent Number: D656224 Patent Number: 9790825 Patent Number: 9790994 Patent Number: 10465687 Patent Number: 7318350 Patent Number: 17690363 Application Number: 17338816 Application Number: 17375756 Application Number: 17318323 Application Number: 17318323 Application Number: 17731337 Application Number: 17856287 Application Number: 17881776 Application Number: 17881177 Application Number: 17686842 Application Number: 17686842 Application Number: 17686842 Application Number: 17835489 Application Number: 17743811 Application Number: 17743811 Application Number: 18051583 Application Number: 18048947 Application Number: 18053044 Application Number: 17943451	Patent Number:	D597630
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Patent Number: 7318350 Patent Number: 11435034 Application Number: 17690363 Application Number: 17338816 Application Number: 17338816 Application Number: 17348972 Application Number: 17318323 Application Number: 17331681 Application Number: 17731337 Application Number: 17856287 Application Number: 17856287 Application Number: 17881776 Application Number: 17881117 Application Number: 17715711 Application Number: 17686842 Application Number: 17686842 Application Number: 17524458 Application Number: 17743811 Application Number: 17743811 Application Number: 17743811 Application Number: 18051583 Application Number: 18053044 Application Number: 18053044 Application Number: 17943451	Patent Number:	9790994
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Application Number: 17881776 Application Number: 17881117 Application Number: 17715711 Application Number: 17686842 Application Number: 17908996 Application Number: 17524458 Application Number: 17835489 Application Number: 17743811 Application Number: 18051583 Application Number: 18048947 Application Number: 18053044 Application Number: 17943451	Application Number:	17856287
Application Number: 17881117 Application Number: 17715711 Application Number: 17842021 Application Number: 17908996 Application Number: 17524458 Application Number: 17835489 Application Number: 17743811 Application Number: 18051583 Application Number: 18048947 Application Number: 18053044 Application Number: 17943451	Application Number:	17529470
Application Number: 17715711 Application Number: 17842021 Application Number: 17686842 Application Number: 17908996 Application Number: 17524458 Application Number: 17835489 Application Number: 17743811 Application Number: 18051583 Application Number: 18048947 Application Number: 18053044 Application Number: 17943451	Application Number:	17881776
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Application Number: 17908996 Application Number: 17524458 Application Number: 17835489 Application Number: 17743811 Application Number: 18051583 Application Number: 18048947 Application Number: 18053044 Application Number: 17943451	Application Number:	17842021
Application Number: 17524458 Application Number: 17835489 Application Number: 17743811 Application Number: 18051583 Application Number: 18048947 Application Number: 18053044 Application Number: 17943451	Application Number:	17686842
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Application Number: 17743811 Application Number: 18051583 Application Number: 18048947 Application Number: 18053044 Application Number: 17943451	Application Number:	17524458
Application Number:18051583Application Number:18048947Application Number:18053044Application Number:17943451	Application Number:	17835489
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Application Number:18053044Application Number:17943451	Application Number:	18051583
Application Number: 17943451	Application Number:	18048947
	Application Number:	18053044
Application Number: 18063306	Application Number:	17943451
	Application Number:	18063306

CORRESPONDENCE DATA

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Email: ipteam@cogencyglobal.com

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Address Line 1: 1025 CONNECTICUT AVE NW, SUITE 712

Address Line 2: COGENCY GLOBAL INC.

Address Line 4: WASHINGTON, D.C. 20036

ATTORNEY DOCKET NUMBER:	1938873 PAT 1
NAME OF SUBMITTER:	DAHLIA GOTTLIEB
SIGNATURE:	/Dahlia Gottlieb/
DATE SIGNED:	03/20/2023

Total Attachments: 9

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CONFIRMATORY GRANT OF SECURITY INTEREST IN UNITED STATES PATENTS

THIS CONFIRMATORY GRANT OF SECURITY INTEREST IN UNITED STATES PATENTS (this "Confirmatory Grant") is made effective as of March 17, 2023, by and from Compressor Products International LLC, a Delaware limited liability company, Howden Roots LLC, a Delaware limited liability company, Chart Inc., a Delaware corporation, Chart Energy & Chemicals, Inc., a Delaware corporation, and BlueinGreen, LLC, an Arkansas limited liability company (the "Grantors" and each, a "Grantor"), to and in favor of JPMorgan Chase Bank, N.A. (the "Grantee"), for itself and as Administrative Agent for the benefit of the Secured Parties (each as defined in the Credit Agreement referenced below).

Reference is made to that certain Credit Agreement, dated as of October 18, 2021, by and among Chart Industries, Inc., a Delaware corporation (the "Company"), Chart Industries Luxembourg S.à r.l., a private limited liability company (société à responsabilité limitée), incorporated under the laws of Luxembourg, having its registered office at 2, rue des Dahlias, L-1411 Luxembourg and registered with the Luxembourg Trade and Companies Register under number B 148.907 ("Chart Luxembourg"), Chart Asia Investment Company Limited, a private limited company incorporated under the laws of Hong Kong with company number 1174361 and having its registered office address at 31/F., Tower Two, Times Square, 1 Matheson Street, Causeway Bay, Hong Kong ("Chart Hong Kong" and, together with the Company and Chart Luxembourg, the "Borrowers"), the financial institution listed on the signature pages thereof as Lenders and JPMorgan Chase Bank, N.A., as Administrative Agent (the "Administrative Agent") (as amended by Amendment No. 1 dated as of November 21, 2022, Amendment No. 2, dated as of 16, 2023, Amendment No. 3 and as further amended, restated, supplemented or otherwise modified from time to time prior to the date hereof, the "Credit Agreement").

WHEREAS, each Grantor and certain other Subsidiaries of the Company have guaranteed and secured the performance and payment of the Secured Obligations pursuant to the Credit Agreement and that certain Fifth Amended and Restated Guarantee and Collateral Agreement, dated as of October 18, 2021 (as amended by Amendment No. 1, dated as of December 22, 2022, and as further amended, restated, supplemented or otherwise modified from time to time prior to the date hereof, the "Collateral Agreement").

WHEREAS, the Grantors own the patents listed on <u>Exhibit A</u> attached hereto (the "Patents"), which Patents are issued or pending with the United States Patent and Trademark Office.

WHEREAS, this Confirmatory Grant has been granted in conjunction with the security interest granted under the Collateral Agreement to the Grantee for itself and the benefit of the Secured Parties. The rights and remedies of the Grantee with respect to the security interest granted herein are without prejudice to and are in addition to those set forth in the Collateral Agreement and the other Security Documents, all terms and provisions of which are incorporated herein by reference. In the event that any provisions of this Confirmatory Grant are deemed to conflict with the Collateral Agreement, the provisions of the Collateral Agreement shall govern.

NOW, THEREFORE, in consideration of the mutual covenants and agreements set forth herein and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, it is hereby agreed that:

- 1) <u>Definitions</u>. All capitalized terms not defined herein shall have the respective meaning given to them in the Credit Agreement or Collateral Agreement, as applicable.
 - 2) The Security Interest.

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- (a) This Confirmatory Grant is made to secure the satisfactory performance and payment of all the Secured Obligations. Upon the performance and payment in full of all Secured Obligations (other than contingent indemnification obligations), the Grantee shall promptly, upon such satisfaction, execute, acknowledge, and deliver to each Grantor all reasonably requested instruments in writing releasing the security interest in the Patents acquired under this Confirmatory Grant.
- (b) Each Grantor hereby grants to the Grantee a security interest in (1) all of such Grantor's right, title and interest in and to the Patents now owned or from time to time after the date hereof owned or acquired by such Grantor, together with (2) all proceeds and products of the Patents, and (3) all causes of action arising prior to or after the date hereof for infringement of the Patents or unfair competition regarding the same.
- 3) <u>Counterparts</u>. This Confirmatory Grant may be executed in any number of counterparts and by different parties in separate counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute one and the same agreement. Signature pages may be detached from multiple separate counterparts and attached to a single counterpart.
- 4) <u>Governing Law</u>. This Confirmatory Grant and the rights and obligations of the parties hereto shall be governed by, and construed and interpreted in accordance with, the law of the State of New York.

[Signature Page Follows]

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IN WITNESS WHEREOF, the Grantors have executed this Confirmatory Grant effective as of the date first written above.

COMPRESSOR PRODUCTS INTERNATIONAL
LLC ,
////
/ <i>/////</i> //
By: 4/////
Kaffe: Jillian C. Evanko
/ Title: President
·

HOWDEN ROOTS LLC

Ву: Name: Marinella Vigouroux

Title: Treasurer

Signature Page to Confirmatory Grant of Security Interest in United States Patents IN WITNESS WHEREOF, the Grantors have executed this Confirmatory Grant effective as of the date first written above.

COMPRESSOR PRODUCTS INTERNATIONAL LLC

By: _____

Name: Jillian C. Evanko

Title: President

HOWDEN ROOTS LLC

By:

Name: Marinella Vigouroux

Title: Treasurer

Signature Page to Confirmatory Grant of Security Interest in United States Patents

CHART INC.

CHART ENERGY & CHEMICALS,

INC.

By: _

Name: Herbert G. Hotchkiss

Title: Secretary

Signature Page to Confirmatory Grant of Security Interest in United States Patents

BLUEINGREEN, LLC

Name: Herbert G. Hotchkiss

Title: Secretary

Signature Page to Confirmatory Grant of Security Interest in United States Patents

CONFIRMATORY GRANT OF SECURITY INTEREST IN UNITED STATES PATENTS

Exhibit A - SCHEDULE OF PATENTS

Title	Patent No.	App No.	Record Owner
	Issue Date	Filing Date	
Environmental compressor	8997936	12/06/2011	Compressor Products
protection assembly	04/07/2015	12,00,2011	International LLC
Check valve and method and	9206796	09/04/2013	Compressor Products
apparatus for extending life of	12/08/2015		International LLC
check valve			
Fluid divider block suitable	9212781	10/15/2013	Compressor Products
for use at high pressures	12/15/2015		International LLC
Lubricator pump adjuster	9506602	06/29/2012	Compressor Products
	11/29/2016		International LLC
Environmental compressor	9709219	02/05/2016	Compressor Products
protection assembly	07/18/2017		International LLC
Check valve and method and	9938969	11/23/2015	Compressor Products
apparatus for extending life of	04/10/2018		International LLC
check valve			
Fluid divider block suitable	10208868	11/18/2015	Compressor Products
for use at high pressures	02/19/2019		International LLC
Lubricator pump adjuster	10876685	10/26/2016	Compressor Products
	12/29/2020		International LLC
FLUID DIVIDER BLOCK	7096889	04/01/2004	Compressor Products
SUITABLE FOR USE AT	8/29/2006		International LLC
HIGH PRESSURES			
CYCLE INDICATOR FOR	7461670	7/21/2005	Compressor Products
FLUID DISTRIBUTION	12/09/2008		International LLC
SYSTEMS			
CHECK VALVE AND	8720648	4/26/2006	Compressor Products
METHOD AND	5/13/2004		International LLC
APPARATUS FOR			
EXTENDING LIFE OF			
CHECK VALVES			
ENVIRONMENTAL	8069950	10/4/2007	Compressor Products
COMPRESSOR	12/06/2011		International LLC
PROTECTION ASSEMBLY	5 00.6225	10/4/2005	
ENVIRONMENTAL	7806235	10/4/2007	Compressor Products
COMPRESSOR	10/5/2010		International LLC
PROTECTION ASSEMBLY	0.622002	4/14/2000	
Check Valve and Method and	8622082	4/14/2009	Compressor Products
Apparatus for Extending Life	1/7/2014		International LLC
of Check Valves	9555007	10/20/2000	Communication
FLUID DIVIDER BLOCK	8555927	10/20/2009	Compressor Products
SUITABLE FOR USE AT	10/15/2013		International LLC
HIGH PRESSURES FLUID FLOW MONITOR	8561477	5/25/2011	Compressor Products
AND CONTROL SYSTEM	10/22/2013	3/23/2011	Compressor Products International LLC
CYCLE INDICATOR FOR	D570236	3/3/2008	Compressor Products
FLUID DISTRIBUTION	6/3/2008	3/3/2006	International LLC
SYSTEMS	0/3/2000		International LLC
PIBIEMB	l		

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Title	Patent No.	App No.	Record Owner
	Issue Date	Filing Date	
CYCLE INDICATOR FOR	D591627	6/3/2008	Compressor Products
FLUID DISTRIBUTION SYSTEMS	5/5/2009		International LLC
ENVIRONMENTAL	D597630	8/1/2008	Compressor Products
COMPRESSOR PROTECTION ASSEMBLY	8/4/2009		International LLC
FLUID DIVIDER BLOCK	D615619 5/11/2010	1/30/2009	Compressor Products International LLC
CYCLE INDICATOR FOR	D613631	5/5/2009	Compressor Products
FLUID DISTRIBUTION SYSTEMS	4/13/2010		International LLC
CYCLE INDICATOR FOR	D639193	4/12/2010	Compressor Products
FLUID DISTRIBUTION SYSTEMS	6/7/2011		International LLC
FLUID DIVIDER BLOCK	D656224 3/20/2012	5/10/2010	Compressor Products International LLC
Device to direct lubricant in a	9790825 10/17/2017	11/30/2014	Howden Roots LLC
lubricating assembly and implementation thereof			
Device to retain lubricant in a	9790994	11/30/2014	Howden Roots LLC
lubricating assembly and implementation thereof	10/17/2017		
Device for conditioning flow of working fluids	10465687 11/05/2019	08/09/2017	Howden Roots LLC
AIR COMPRESSOR AND		17/690363	Howden Roots LLC
BLOWER		03/09/2022	
Rod packing		17/463,334	Compressor Products International, LLC
Valve Monitoring System and	7318350	8/31/2021 5/20/2005	Compressor Products
Method	1/15/2008	3/20/2003	International, LLC
CRYOGENIC FLUID	1,10,2000	17/338,816	Chart Inc.
DISPENSING SYSTEM		6/4/2021	
WITH HEAT			
MANAGEMENT		15/055 554	CI I
PUMP SEAL		17/375,756 7/14/2021	Chart Inc.
Cryogenic Fluid Dispensing		17/348,972	Chart Inc.
System and Method		06/16/2021	Chart mc.
Vaporizer with Defrosting		17/318,323	Chart Inc.
Function		05/12/2021	
SYSTEMS AND METHODS		17/331,681	BlueinGreen, LLC
FOR CONTROLLED		05/27/2021	
DEVELOPMENT AND			
DELIVERY OF GAS AND			
LIQUID MIXTURES TANK SYSTEMS WITH AN	11435034	16/029,116	Chart Inc.
INSULATION ASSEMBLY	09/06/2022	07/06/2018	Chart Inc.
CRYOGENIC FLUID		17/731,337	Chart Inc.
FUELING SYSTEM		4/28/2022	CI I
STORAGE TANK WITH PRESSURE ACTUATED		17/856,287 07/01/2022	Chart Inc.
FILL TERMINATION		07/01/2022	
ASSEMBLY			
Getter Material, Tanks		17/529,470	Chart Inc.
Containing the Same, and		11/18/2021	

Title	Patent No. Issue Date	App No. Filing Date	Record Owner
Methods of Making and Using			
Getter Material to Absorb			
Hydrogen			
Mixed Refrigerant System and		17/881,776	Chart Energy &
Method		08/05/2022	Chemicals, Inc.
Mixed Refrigerant System and		17/881,117	Chart Energy &
Method		08/04/2022	Chemicals, Inc.
Dehydrogenation Separation		17/715,711	Chart Energy &
Unit with Mixed Refrigerant		04/07/2022	Chemicals, Inc.
Cooling			
Carrier Gas Stream Processing		17/842,021	Chart Energy &
System and Method ¹		06/16/2022	Chemicals, Inc.
CRYOGENIC FLUID		17/686,842	Chart Inc.
COUPLING		03/04/2022	
Liquid Density Measurement		17/908,996	Chart Inc.
Device, System and Method		09/02/2022	
Device and Method for Filling		17/524,458	Chart Inc.
Cryogenic Tanks		11/11/2021	
Hydrogen Liquefaction		17/835,489	Chart Energy &
System and Method		06/08/2022	Chemicals, Inc.
SIDE DRAW REFLUX		17/743,811	Chart Energy &
HEAVY HYDROCARBON		05/13/2022	Chemicals, Inc.
REMOVAL SYSTEM AND			
METHOD			
Carbon Capture System and		18/051583	Chart Energy &
Method with Exhaust Gas		11/01/2022	Chemicals, Inc.
Recirculation ²			
Gas Purification and		18/048947	Chart Energy &
Liquefication System and		10/24/2022	Chemicals, Inc.
Method Using Liquid			
Nitrogen			
Hydrogen Liquefaction with		18/053044	Chart Energy &
Stored Hydrogen		11/07/2022	Chemicals, Inc.
Refrigeration Source			
Cryogenic Pump	<u> </u>	17/943451	Chart Energy &
		9/13/2022	Chemicals, Inc.
Cryogenic Fuel Tank Venting		18/063306	Chart Inc.
System and Method		12/08/2022	

RECORDED: 03/20/2023

 $^{^1}$ Note: Missing inventor assignment. Applies to below five marks as well. 2 Note: results not available on USPTO. Secured with U.S. Trust. Applies to below five marks as well.