# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7715016

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	PATENT CONFIRMATORY GRANT

# **CONVEYING PARTY DATA**

Name	Execution Date
CHART INC.	12/22/2022

# **RECEIVING PARTY DATA**

Name:	U.S. BANK TRUST COMPANY, NATIONAL ASSOCIATION, AS THE NOTES COLLATERAL AGENT
Street Address:	13737 NOEL ROAD, 8TH FLOOR
City:	DALLAS
State/Country:	TEXAS
Postal Code:	75240

# **PROPERTY NUMBERS Total: 41**

Property Type	Number
Patent Number:	7144228
Patent Number:	7137651
Patent Number:	6944570
Patent Number:	10288367
Patent Number:	10125751
Patent Number:	9939109
Patent Number:	9903534
Patent Number:	9885447
Patent Number:	9829156
Patent Number:	9752727
Patent Number:	9746132
Patent Number:	9581295
Patent Number:	9551330
Patent Number:	9441877
Patent Number:	9388943
Patent Number:	8075645
Patent Number:	11248747
Patent Number:	10451221
Patent Number:	11346504
Patent Number:	11118736

**PATENT** 

REEL: 062793 FRAME: 0692

507667877

Property Type	Number
Patent Number:	11371654
Patent Number:	10890293
Patent Number:	11174991
Patent Number:	11262026
Patent Number:	11473729
Patent Number:	11402067
Patent Number:	11435034
Patent Number:	11300345
Patent Number:	6758060
Application Number:	15794291
Application Number:	16725590
Application Number:	17229972
Application Number:	17856287
Application Number:	16951115
Application Number:	17908996
Application Number:	17186069
Application Number:	17731337
Application Number:	17686842
Application Number:	17529470
Application Number:	17524458
Application Number:	18063306

#### **CORRESPONDENCE DATA**

### Fax Number:

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.

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Correspondent Name: STEWART WALSH

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Address Line 2: COGENCY GLOBAL INC.

Address Line 4: WASHINGTON, D.C. 20036

ATTORNEY DOCKET NUMBER:	1866275 PAT 3
NAME OF SUBMITTER:	DAHLIA GOTTLIEB
SIGNATURE:	/Dahlia Gottlieb/
DATE SIGNED:	12/28/2022

#### **Total Attachments: 7**

source=3. Chart - Patent Confirmatory Grant (CHART INC) [Executed]#page2.tif source=3. Chart - Patent Confirmatory Grant (CHART INC) [Executed]#page3.tif source=3. Chart - Patent Confirmatory Grant (CHART INC) [Executed]#page4.tif

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#### CONFIRMATORY GRANT OF SECURITY INTEREST IN UNITED STATES PATENTS

THIS CONFIRMATORY GRANT OF SECURITY INTEREST IN UNITED STATES PATENTS (this "<u>Confirmatory Grant</u>") is made effective as of December 22, 2022, by and from Chart Inc., a Delaware corporation (the "<u>Grantor</u>"), to and in favor of U.S. Bank Trust Company, National Association (the "<u>Grantee</u>"), for itself and as Notes Collateral Agent for the benefit of the Notes Secured Parties (each as defined in the Indenture referenced below).

WHEREAS, Chart Industries, Inc., a Delaware corporation (the "<u>Issuer</u>"), the Guarantors party thereto from time to time, U.S. Bank Trust Company, National Association, as trustee (the "<u>Trustee</u>") and U.S. Bank Trust Company, National Association, as collateral agent (the "<u>Notes Collateral Agent</u>") have entered into that certain Indenture, dated as of December 22, 2022 (the "<u>Indenture</u>").

WHEREAS, the Grantor and certain other Subsidiaries of the Issuer have guaranteed and secured the performance and payment of the Guaranteed Obligations pursuant to the Indenture and that certain Collateral Agreement, dated as of December 22, 2022 (the "Collateral Agreement").

WHEREAS, the Grantor owns 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 Notes 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 Notes 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 Indenture or Collateral Agreement, as applicable.

#### 2) The Security Interest.

- (a) This Confirmatory Grant is made to secure the satisfactory performance and payment of all the Guaranteed Obligations. Upon the performance and payment in full of all Guaranteed Obligations (other than contingent indemnification obligations), the Grantee shall promptly, upon such satisfaction, execute, acknowledge, and deliver to the Grantor all reasonably requested instruments in writing releasing the security interest in the Patents acquired under this Confirmatory Grant.
- (b) The Grantor hereby grants to the Grantee a security interest in (1) all of the 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 the 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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CHARTANC.

By:

Name: Jillian C. Evanko
Title: Chief Executive Officer

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
Consequence fluid delivers	Issue Date	Filing Date	Chart Inc.
Cryogenic fluid delivery system	7,144,228	10/601,458 June 23, 2003	Chart Inc.
Fluid piping systems and	December 5, 2006 7,137,651	10/817,710	Chart Inc.
pipe spools suitable for	November 21, 2006	April 2, 2004	Chart Inc.
sub sea use		April 2, 2004	
Differential pressure	6,944,570	10/879,7731	Chart Inc.
gauge for cryogenic	September 13, 2005	June 29, 2004	Chart Inc.
fluids which selects a	September 13, 2003	June 27, 2004	
density value based on			
pressure measurement			
pressure measurement			
Cooling of cryogenic	10,288,367	14/208,128	Chart Inc.
meters sensing reverse	May 14, 2019	Mar 13, 2014	
flow		•	
Multimode Gas Delivery	10125751	14/553,967	Chart Inc.
for Rail Tender	Nov 13, 2018	Nov 25, 2014	
Bulk liquid cooling and	9,939,109	13/216,666	Chart Inc.
pressurized dispensing	Apr 10, 2018	Aug 24, 2011	
system and method	,	<b>0</b> ,	
Cryogenic liquid delivery	9,903,534	14/044,622	Chart Inc.
system and method with	Feb 27, 2018	Oct 2, 2013	
active pressure building	,	,	
capabilities			
Metering system and	9,885,447	14/089,096	Chart Inc.
method for cryogenic	Feb 6, 2018	Nov 25, 2013	
liquids	,	,	
Integrated cryogenic	9,829,156	14/177,781	Chart Inc.
fluid delivery device with	Nov 28, 2017	Feb 11, 2014	
vaporizer having a	,	ŕ	
conformal geometry			
Heat management	9,752,727	14/092,329	Chart Inc.
system and method for	Sep 5, 2017	Nov 27, 2013	
cryogenic liquid	' '	•	
dispensing systems			

<sup>1</sup> Missing inventor assignment.

Self-saturating liquefied natural gas delivery system utilizing hydraulic pressure   13/623,048   Sep 19, 2012   Sep 19, 2014   Sep 19, 2014   Sep 19, 2014   Sep 19, 2014   Sep 19, 2015   Sep 19, 2015   Sep 19, 2016   Sep 19, 2017   Sep 19, 2016   Sep 19, 2016   Sep 19, 2017   Sep 19, 2016   Sep 19, 2017   Sep 19, 2018   Sep 19, 2017   Sep 19, 2018   Sep 19, 2017   Sep 19, 2018   Sep 19, 201				
System utilizing hydraulic pressure   Feb 28, 2017	Self-saturating liquefied	9,746,132	13/623,048	Chart Inc.
Pressure   Pressure	natural gas delivery	Aug 29, 2017	Sep 19, 2012	
Economizer biasing valve for cryogenic fluids	system utilizing hydraulic			
Feb 28, 2017   Mar 6, 2012	pressure			
Frangible closure	Economizer biasing valve	9,581,295	13/413,104	Chart Inc.
Coupling for liquid natural gas tank   Integrated pre-cooled mixed refrigerant system and method   Sep 13, 2006   Mar 17, 2010   Mar 17, 2010	for cryogenic fluids	Feb 28, 2017	Mar 6, 2012	
Integrated pre-cooled   mixed refrigerant system   and method   and method for hydrogen   and method   and method for hydrogen   and	Frangible closure	9,551,330	14/553,933	Chart Inc.
Integrated pre-cooled mixed refrigerant system and method   Sep 13, 2006   Mar 17, 2010   Mar 17, 2010	coupling for liquid	Jan 24, 2017	Nov 25, 2014	
Mar 17, 2010   Mar 17, 2010   Mar 17, 2010	natural gas tank			
And method   Space Conserving   Integrated Cryogenic Container With Reserve Pressure Building Chamber   Space Conserving Integrated Cryogenic Fluid Delivery System Pressure Building Chamber   Space Conserving Cryogenic Fluid Transfer System And Method   Space Conserving Cryogenic Fluid Transfer System And Method   Space Conserving Cryogenic Fluid Transfer System And Method   Space Conserving Integrated Cryogenic Fluid Transfer System And Method   Space Conserving Integrated Cryogenic Fluid Transfer System And Method   Space Conserving Integrated Cryogenic Fluid Transfer System And Method   Space Conserving Integrated Cryogenic Fluid Transfer System And Method   Space Conserving Integrated Cryogenic Fluid Transfer System And Method   Space Conserving Integrated Cryogenic Fluid Transfer System And Method   Space Conserving Integrated Cryogenic Fluid Transfer System And Method   Space Conserving Integrated Cryogenic Fluid Transfer System And Method   Space Conserving Integrated Cryogenic Fluid Transfer System Integrated Cryogenic Fluid Integrated Cryogenic Fluid Transfer System Integrated Cryogenic Fluid Integrated Cryogenic Fluid Integrated Cryogenic Fluid Transfer System Integrated Cryogenic Fluid Integrated Cry	Integrated pre-cooled	9,441,877	12,726,142	Chart Inc.
Ullage tank for vertical storage tank	mixed refrigerant system	Sep 13, 2006	Mar 17, 2010	
Storage tank   Jul 12, 2016   Dec 3, 2012	and method			
Catalysts, system and method for hydrogen production         8,075,645 Dec 13, 2011         12/384,796 Apr 8, 2009         Chart Inc.           LNG Delivery System With Saturated Fuel Reserve         11,248,747 Feb 15, 2022         15/314875 Nov 29, 2016         Chart Inc.           Interchangeable Dosing Arm Device, System And Method         10,451,221 Oct 22, 2019         0ct 19, 2017         Chart Inc.           Differential Pressure Filling System And Method For A Dosing Vessel         15/794,291 Oct 26, 2017         Chart Inc.           Cryogenic Container With Reserve Pressure Building Chamber         11,346,504 May 31, 2022         15/873,182 Jan 17, 2018         Chart Inc.           Space Conserving Integrated Cryogenic Fluid Delivery System         11,118,736 Sep 14, 2021 Mar 19, 2018         15,924,779 Mar 19, 2018         Chart Inc.           Pressure Building Cryogenic Fluid Delivery System         11,371,654 Sep 14, 2021 Mar 19, 2018         15/962,107 Chart Inc.         Chart Inc.           Cryogenic Fluid Transfer System And Method         10,890,293 Jan 12, 2021 Mar 6, 2019         16/293,985 Mar 6, 2019         Chart Inc.           Cryogenic Fluid         11,174,991         16/395,758         Chart Inc.	Ullage tank for vertical	9,388,943	13/693,005	Chart Inc.
method for hydrogen production         Dec 13, 2011         Apr 8, 2009           LNG Delivery System With Saturated Fuel Reserve         11,248,747 Feb 15, 2022         15/314875 Nov 29, 2016         Chart Inc.           Reserve Interchangeable Dosing Arm Device, System And Method         10,451,221 Oct 22, 2019         0ct 19, 2017         Chart Inc.           Differential Pressure Filling System And Method For A Dosing Vessel         15/794,291 Oct 26, 2017 20180112824         Chart Inc.           Cryogenic Container With Reserve Pressure Building Chamber         11,346,504 May 31, 2022         15/873,182 Jan 17, 2018         Chart Inc.           Space Conserving Integrated Cryogenic Fluid Delivery System         11,118,736 Sep 14, 2021 Mar 19, 2018         15,924,779 Mar 19, 2018         Chart Inc.           Pressure Building Cryogenic Fluid Delivery System         11,371,654 (6/28/2022 Apr 25, 2018 System And Method         15/962,107 Apr 25, 2018 System And Method         Chart Inc.           Cryogenic Fluid Transfer System And Method         10,890,293 Jan 12, 2021 Mar 6, 2019         16/293,985 Mar 6, 2019         Chart Inc.           Cryogenic Fluid         11,174,991         16/395,758         Chart Inc.	storage tank	Jul 12, 2016	Dec 3, 2012	
Differential Pressure   Cryogenic Container With Reserve Pressure Building Chamber   Space Conserving Integrated Cryogenic Fluid Delivery System   Pressure Building Cryogenic Fluid Transfer System And Method   Cryogenic Fluid Transfer System   Cryogenic Fluid Transfer System   Chart Inc.   Chart Inc.   Chart Inc.   Cryogenic Fluid Transfer System And Method   Cryogenic Fluid Transfer System And Method   Cryogenic Fluid Transfer System   Chart Inc.   Chart Inc.   Cryogenic Fluid Transfer System And Method   Cryogenic Fluid Transfer System And Method   Cryogenic Fluid Transfer System   Chart Inc.   Chart Inc.   Cryogenic Fluid Transfer System   Chart Inc.   Cryogenic Fluid Transfer System   Chart Inc.   Chart Inc.   Cryogenic Fluid Transfer System   Chart Inc.   Chart Inc.   Chart Inc.   Cryogenic Fluid Transfer System   Chart Inc.   Chart	Catalysts, system and	8,075,645	12/384,796	Chart Inc.
LNG Delivery System With Saturated Fuel Reserve   I1,248,747   Feb 15, 2022   Nov 29, 2016   Reserve   Interchangeable Dosing Arm Device, System And Method   Oct 22, 2019   Oct 19, 2017   Oct 19, 2017   Oct 22, 2019   Oct 26, 2017   20180112824   Oct 26, 2017   20180112824   Oct 26, 2017   Oct 27, 20180112824   Oct 28, 2019   Oct 26, 2017   Oct 26	method for hydrogen	Dec 13, 2011	Apr 8, 2009	
With Saturated Fuel Reserve         Feb 15, 2022         Nov 29, 2016           Interchangeable Dosing Arm Device, System And Method         10,451,221 Oct 22, 2019         15/787,859 Oct 19, 2017         Chart Inc.           Differential Pressure Filling System And Method For A Dosing Vessel         15/794,291 Oct 26, 2017 20180112824         Chart Inc.           Cryogenic Container With Reserve Pressure Building Chamber         11,346,504 May 31, 2022         15/873,182 Jan 17, 2018         Chart Inc.           Space Conserving Integrated Cryogenic Fluid Delivery System         11,118,736 Sep 14, 2021         15,924,779 Mar 19, 2018         Chart Inc.           Pressure Building Cryogenic Fluid Delivery System         11,371,654 Sep 14, 2021         15/962,107 Apr 25, 2018         Chart Inc.           Cryogenic Fluid Transfer System And Method         10,890,293 Jan 12, 2021         16/293,985 Mar 6, 2019         Chart Inc.           Cryogenic Fluid         11,174,991         16/395,758         Chart Inc.	production			
Reserve	LNG Delivery System	11,248,747	15/314875	Chart Inc.
Interchangeable Dosing Arm Device, System And Method	With Saturated Fuel	Feb 15, 2022	Nov 29, 2016	
Arm Device, System And Method         Oct 22, 2019         Oct 19, 2017         Chart Inc.           Differential Pressure Filling System And Method For A Dosing Vessel         15/794,291 Oct 26, 2017 20180112824         Chart Inc.           Cryogenic Container With Reserve Pressure Building Chamber         11,346,504 May 31, 2022         15/873,182 Jan 17, 2018         Chart Inc.           Space Conserving Integrated Cryogenic Fluid Delivery System         11,118,736 Sep 14, 2021         15,924,779 Mar 19, 2018         Chart Inc.           Pressure Building Cryogenic Fluid Delivery System         11,371,654 Sep 14, 2021         15/962,107 Apr 25, 2018         Chart Inc.           Cryogenic Fluid Transfer System And Method         10,890,293 Jan 12, 2021         16/293,985 Mar 6, 2019         Chart Inc.           Cryogenic Fluid         11,174,991         16/395,758         Chart Inc.	Reserve			
Differential Pressure   Filling System And   Method For A Dosing Vessel   Cryogenic Container   With Reserve Pressure Building Chamber   Space Conserving Integrated Cryogenic Fluid Delivery System   Pressure Building Chamber   11,371,654   15/962,107   Chart Inc.   Cryogenic Fluid Transfer System And Method   10,890,293   Jan 12, 2021   Cryogenic Fluid Transfer System And Method   11,174,991   16/395,758   Chart Inc.   Chart Inc.   Chart Inc.   Cryogenic Fluid Transfer System And Method   11,174,991   16/395,758   Chart Inc.   Chart Inc.   Chart Inc.   Cryogenic Fluid Transfer System And Method   11,174,991   16/395,758   Chart Inc.   Chart Inc.   Cryogenic Fluid Transfer System And Method   11,174,991   16/395,758   Chart Inc.   Chart Inc.   Cryogenic Fluid Transfer System And Method   11,174,991   16/395,758   Chart Inc.   Chart Inc.   Cryogenic Fluid Transfer System And Method   11,174,991   16/395,758   Chart Inc.   Chart Inc.   Cryogenic Fluid Transfer System And Method   11,174,991   16/395,758   Chart Inc.   Chart Inc.   Cryogenic Fluid Transfer System And Method   11,174,991   16/395,758   Chart Inc.   Chart Inc.   Cryogenic Fluid Transfer System And Method   Cryogenic Fluid Transfer System System System System System System System System System Syste			· · · · · · · · · · · · · · · · · · ·	Chart Inc.
Differential Pressure   Filling System And   Method For A Dosing   Vessel		Oct 22, 2019	Oct 19, 2017	
Filling System And Method For A Dosing Vessel         Oct 26, 2017 20180112824           Cryogenic Container With Reserve Pressure Building Chamber         11,346,504 May 31, 2022         15/873,182 Jan 17, 2018         Chart Inc.           Space Conserving Integrated Cryogenic Fluid Delivery System         11,118,736 Sep 14, 2021         15,924,779 Mar 19, 2018         Chart Inc.           Pressure Building Cryogenic Fluid Delivery System         11,371,654 6/28/2022         15/962,107 Apr 25, 2018         Chart Inc.           Cryogenic Fluid Transfer System And Method         10,890,293 Jan 12, 2021         16/293,985 Mar 6, 2019         Chart Inc.           Cryogenic Fluid         11,174,991         16/395,758         Chart Inc.	And Method			
Filling System And Method For A Dosing Vessel         Oct 26, 2017 20180112824           Cryogenic Container With Reserve Pressure Building Chamber         11,346,504 May 31, 2022         15/873,182 Jan 17, 2018         Chart Inc.           Space Conserving Integrated Cryogenic Fluid Delivery System         11,118,736 Sep 14, 2021         15,924,779 Mar 19, 2018         Chart Inc.           Pressure Building Cryogenic Fluid Delivery System         11,371,654 6/28/2022         15/962,107 Apr 25, 2018         Chart Inc.           Cryogenic Fluid Transfer System And Method         10,890,293 Jan 12, 2021         16/293,985 Mar 6, 2019         Chart Inc.           Cryogenic Fluid         11,174,991         16/395,758         Chart Inc.	Differential Pressure		15/704 201	Chart Inc
Method For A Dosing Vessel         20180112824           Cryogenic Container With Reserve Pressure Building Chamber         11,346,504 May 31, 2022         15/873,182 Jan 17, 2018         Chart Inc.           Space Conserving Integrated Cryogenic Fluid Delivery System         11,118,736 Sep 14, 2021         15,924,779 Mar 19, 2018         Chart Inc.           Pressure Building Cryogenic Fluid Delivery System         11,371,654 15/962,107 Apr 25, 2018         Chart Inc.         Chart Inc.           Cryogenic Fluid Transfer System And Method         10,890,293 Jan 12, 2021         16/293,985 Mar 6, 2019         Chart Inc.           Cryogenic Fluid         11,174,991         16/395,758         Chart Inc.			·	Chart Inc.
Vessel         11,346,504         15/873,182         Chart Inc.           With Reserve Pressure Building Chamber         May 31, 2022         Jan 17, 2018         Chart Inc.           Space Conserving Integrated Cryogenic Fluid Delivery System         11,118,736         15,924,779         Chart Inc.           Pressure Building Cryogenic Fluid Delivery System         11,371,654         15/962,107         Chart Inc.           Cryogenic Fluid Delivery System         6/28/2022         Apr 25, 2018         Chart Inc.           Cryogenic Fluid Transfer System And Method         Jan 12, 2021         Mar 6, 2019         Chart Inc.           Cryogenic Fluid         11,174,991         16/395,758         Chart Inc.			1	
Cryogenic Container         11,346,504         15/873,182         Chart Inc.           With Reserve Pressure         May 31, 2022         Jan 17, 2018         Chart Inc.           Space Conserving         11,118,736         15,924,779         Chart Inc.           Integrated Cryogenic         Sep 14, 2021         Mar 19, 2018         Chart Inc.           Fluid Delivery System         11,371,654         15/962,107         Chart Inc.           Cryogenic Fluid Delivery System         6/28/2022         Apr 25, 2018         Chart Inc.           Cryogenic Fluid Transfer System And Method         10,890,293         16/293,985         Chart Inc.           Cryogenic Fluid         11,174,991         16/395,758         Chart Inc.			20100112021	
With Reserve Pressure Building Chamber         May 31, 2022         Jan 17, 2018           Space Conserving Integrated Cryogenic Fluid Delivery System         11,118,736 Sep 14, 2021         15,924,779 Mar 19, 2018         Chart Inc.           Pressure Building Cryogenic Fluid Delivery System         11,371,654 6/28/2022         15/962,107 Apr 25, 2018         Chart Inc.           Cryogenic Fluid Transfer System And Method         10,890,293 Jan 12, 2021         16/293,985 Mar 6, 2019         Chart Inc.           Cryogenic Fluid         11,174,991         16/395,758         Chart Inc.	7 55551			
With Reserve Pressure Building Chamber         May 31, 2022         Jan 17, 2018           Space Conserving Integrated Cryogenic Fluid Delivery System         11,118,736 Sep 14, 2021         15,924,779 Mar 19, 2018         Chart Inc.           Pressure Building Cryogenic Fluid Delivery System         11,371,654 6/28/2022         15/962,107 Apr 25, 2018         Chart Inc.           Cryogenic Fluid Transfer System And Method         10,890,293 Jan 12, 2021         16/293,985 Mar 6, 2019         Chart Inc.           Cryogenic Fluid         11,174,991         16/395,758         Chart Inc.	Cryogenic Container	11,346,504	15/873,182	Chart Inc.
Space Conserving         11,118,736         15,924,779         Chart Inc.           Integrated Cryogenic         Sep 14, 2021         Mar 19, 2018         Chart Inc.           Pressure Building         11,371,654         15/962,107         Chart Inc.           Cryogenic Fluid Delivery         6/28/2022         Apr 25, 2018         Chart Inc.           System         10,890,293         16/293,985         Chart Inc.           System And Method         Jan 12, 2021         Mar 6, 2019         Chart Inc.           Cryogenic Fluid         11,174,991         16/395,758         Chart Inc.		May 31, 2022	l I	
Integrated Cryogenic Fluid Delivery System         Sep 14, 2021         Mar 19, 2018           Pressure Building Cryogenic Fluid Delivery System         11,371,654         15/962,107         Chart Inc.           Cryogenic Fluid Transfer System And Method         10,890,293         16/293,985         Chart Inc.           Cryogenic Fluid         11,174,991         16/395,758         Chart Inc.	Building Chamber			
Integrated Cryogenic Fluid Delivery System         Sep 14, 2021         Mar 19, 2018           Pressure Building Cryogenic Fluid Delivery System         11,371,654         15/962,107         Chart Inc.           Cryogenic Fluid Transfer System And Method         10,890,293         16/293,985         Chart Inc.           Cryogenic Fluid         11,174,991         16/395,758         Chart Inc.				
Fluid Delivery System         Image: Control of the property System         Imag			1 ' '	Chart Inc.
Pressure Building         11,371,654         15/962,107         Chart Inc.           Cryogenic Fluid Delivery         6/28/2022         Apr 25, 2018         Chart Inc.           Cryogenic Fluid Transfer         10,890,293         16/293,985         Chart Inc.           System And Method         Jan 12, 2021         Mar 6, 2019           Cryogenic Fluid         11,174,991         16/395,758         Chart Inc.	, ,	Sep 14, 2021	Mar 19, 2018	
Cryogenic Fluid Delivery System         6/28/2022         Apr 25, 2018           Cryogenic Fluid Transfer System And Method         10,890,293 Jan 12, 2021         16/293,985 Mar 6, 2019           Cryogenic Fluid         11,174,991         16/395,758         Chart Inc.	· · ·	11 271 654	15/0/0 107	C1 I
System         10,890,293         16/293,985         Chart Inc.           System And Method         Jan 12, 2021         Mar 6, 2019         Chart Inc.           Cryogenic Fluid         11,174,991         16/395,758         Chart Inc.		1 ' '	· · · · · · · · · · · · · · · · · · ·	Cnart Inc.
Cryogenic Fluid Transfer         10,890,293         16/293,985         Chart Inc.           System And Method         Jan 12, 2021         Mar 6, 2019           Cryogenic Fluid         11,174,991         16/395,758         Chart Inc.		0/28/2022	Apr 23, 2018	
System And Method         Jan 12, 2021         Mar 6, 2019           Cryogenic Fluid         11,174,991         16/395,758         Chart Inc.	System			
System And Method         Jan 12, 2021         Mar 6, 2019           Cryogenic Fluid         11,174,991         16/395,758         Chart Inc.	Cryogenic Fluid Transfer	10,890.293	16/293.985	Chart Inc.
Cryogenic Fluid 11,174,991 16/395,758 Chart Inc.	, · ·	· '		Gridi t IIIc.
			111.01.0, 2013	
	Cryogenic Fluid	11,174,991	16/395.758	Chart Inc.
	, , ,	· '	I	

Having a Chilling Reservoir			
Cryogenic Liquid Dispensing System Having a Raised Basin Jan Kubica, Martin Lansky	11,262,026 Mar 1, 2022	16/570,174 Sep 13, 2019	Chart Inc.
Vapor Pressure Regulator For Cryogenic Liquid Storage Tanks And Tanks Including The Same		16/725,590 Dec 23, 2019 20200208779	Chart Inc.
Gas Dispensing System with Tank Pressure and Heat Management		17/229,972 Apr 14, 2021 20210317953	Chart Inc.
Multiple Head Dosing Arm Device, System And Method	11,473,729 Oct 18, 2022	16/553963 Aug 28, 2019	Chart Inc.
Storage Tank With Pressure Actuated Fill Termination Assembly	11,402,067 Aug 2, 2022	16/728,301 Dec 27, 2019	Chart Inc.
Storage Tank With Pressure Actuated Fill Termination Assembly		17/856,287 Jul 1, 2022 20220341545	Chart Inc.
Ambient Air Vaporizer with Icephobic/Waterphobic Treatment <sup>2</sup>		16/951,115 Nov 18, 2020 20210164619	Chart Inc.
Liquid Density Measurement Device, System and Method		17/908,996 9/02/2022 <sup>3</sup>	Chart Inc.
Delivery Tank With Pressure Reduction, Saturation And Desaturation Features <sup>4</sup>		17/186,069 2021-02-26 20210270420	Chart Inc.
Cryogenic Fluid Fueling System		17/731,337 4/28/2022 20220349526	Chart Inc.

Missing inventor assignment.
 Application Dispatched from Preexam.
 Missing inventor assignment.

Cryogenic Fluid Coupling		17/686,842	Chart Inc.
		3/04/2022	
		20220282837	
Getter Material, Tanks		17/529,470	Chart, Inc.
Containing the Same,		11/18/2021	
and Methods of Making		20220163168	
and Using Getter			
Material to Absorb			
Hydrogen			
Device and Method for		17/524,458	Chart Inc.
Filling Cryogenic Tanks		11/11/2021	
		20220146046	
Cryogenic Fuel Tank		18/063,306	Chart Inc.
Venting System and		12/08/2022 <sup>5</sup>	
Method			
Tank Systems with an	11,435,034	16/029,116	Chart Inc.
Insulation Assembly	Sep 6, 2022	Jul 6, 2018	
	•	·	
Shock-Survivable Dewar	11,300,345 B2	15,852,224	Chart Inc.
	2022-04-12	2017-12-22	
Separating nitrogen from	6,758,060	10/367,148	Chart Inc.
methane in the	Jul 6, 2004	Feb 14, 2003	
production of LNG			

**RECORDED: 12/28/2022** 

<sup>&</sup>lt;sup>5</sup> Application not available yet.