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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3102226

NVEYING PARTY DATA Name Execution D DMAS RENNER 10/06/2014 NNK CASTILLO-WELTER 10/23/2014 PHANE HAAG 10/23/2014 PHANE HAAG 10/22/2014 RTIN GORNY 10/01/2014 EIS OHLHAVER 10/23/2014 CEIVING PARTY DATA 10/23/2014 PARIS 12/400 tee/Country: FRANCE FRANCE France Poperty Type	SUBMISSION TYPE:		NEW ASSIGNMENT		
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Iress Line 1:TWO PRUDENTIAL PLAZA, SUITE 4900Iress Line 2:180 NORTH STETSON AVENUE	Email:	assignments@leydig.com			
Iress Line 2: 180 NORTH STETSON AVENUE	Correspondent Name: LEYDIG, VOIT & MAY		EYDIG, VOIT & MAYER, LTD.		
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ORNEY DOCKET NUMBER: 814645	TTORNEY DOCKET N	UMBER:	814645		

ATTORNEY DOCKET NUMBER:	814645
NAME OF SUBMITTER:	ERIK R. SWANSON
SIGNATURE:	/Erik R. Swanson/
DATE SIGNED:	11/11/2014
Total Attachments: 18	

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I, Thomas Renner, a citizen of Germany, residing at Nordendstrasse 55; 60318 Frankfurt am Main; GERMANY; and

I, Frank Castillo-Welter, a citizen of Germany, residing at Obere Roemerhofstrasse 154; 61381 Friedrichsdorf; GERMANY; and

I, Stephane Haag, a citizen of France, residing at Darmstaedter Landstrasse 186; 60598 Frankfurt am Main; GERMANY; and

I, Martin Gorny, a citizen of Germany, residing at Brunnenstrasse 26; 65760 Eschborn; GERMANY; and

I, Theis Ohlhaver, a citizen of Germany, residing at Droysenstrasse 16; 60385 Frankfurt am Main; GERMANY; and

I, Roberta Olindo, a citizen of Italy, residing at Berger Marktplatz 8; 60388 Frankfurt am Main; GERMANY;

and each of us, if more than one person is identified above, have invented and own a certain invention entitled:

PROCESS FOR PRODUCING SHORT-CHAIN OLEFINS WITH PROLONGED CYCLE TIME

for which invention International Application No. PCT/EP2013/059336 was filed on May 6, 2013, designating the U.S. and

WHEREAS, L'Air Liquide, Societe Anonyme Pour l'Etude et l'Exploitation des Procedes Georges Claude, having an address at 75, quai d'Orsay; F-75007 Paris; France,

hereinafter referred to as Assignee, is desirous of acquiring the entire domestic and foreign right, title, and interest in and under the invention described in the above patent application.

Now, THEREFORE, for good and valuable considerations, the receipt and sufficiency of which are hereby acknowledged, I/we assign and transfer to the Assignee and the Assignee's legal representatives, successors and assigns my/our full and exclusive rights in

Page 1 of 3

and to the invention in the U.S. and every foreign country and my/our entire right, title, and interest in and to the patent application and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications, and utility model applications) that may be filed in the United States and every foreign country on the invention, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon, and I/we do hereby authorize and request the Commissioner of Patents to issue U.S. patents to the above-mentioned Assignee agreeably with the terms of this assignment document.

UPON SAID CONSIDERATION, I/we convey to the Assignee the right to make application in its own behalf for protection of the invention in the U.S. and countries foreign to the U.S. and to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of the U.S. application (or any other application on the invention) to gain priority with respect to other applications.

L/WE DO HEREBY COVENANT and agree with the Assignee that I/we will not execute any writing or do any act whatsoever conflicting with the terms of this assignment document set forth herein, and that I/we will at any time upon request, without further or additional consideration, but at the expense of the Assignee, execute such additional assignments and other writings and do such additional acts as the Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the U.S. or of any and all foreign countries on the invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of all parties hereto.

Date 06.10.2014

Champy Roma

Thomas Renner, Inventor

Page 2 of 3

Date	
	Frank Castillo-Welter, Inventor
Date	
	Stephane Haag, Inventor
Date	
	Martin Gorny, Inventor
Date	
	Theis Ohlhaver, Inventor
Date	
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Thomas Renner, a citizen of Germany, residing at Nordendstrasse 55; 60318
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Date

Thomas Renner, Inventor

Date <u>23/10/20</u>	19 Janl Carl Holle
Date	Stephane Haag, Inventor
Date	Martin Gorny, Inventor
Date	Theis Ohlhaver, Inventor
Date	Roberta Olindo, Inventor

I, Thomas Renner, a citizen of Germany, residing at Nordendstrasse 55; 60318 Frankfurt am Main; GERMANY; and

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Date _____

Thomas Renner, Inventor

Page 2 of 3

Date	
	Frank Castillo-Welter, Inventor
Date 22 10 2014	<u>Has</u>
	Stephane Hazg, Inventor
Date	
	Martin Gorny, Inventor
Date	
	Theis Ohlhaver, Inventor
Date	
	Roberta Olindo, Inventor

...

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hereinafter referred to as Assignee, is desirous of acquiring the entire domestic and foreign right, title, and interest in and under the invention described in the above patent application.

NOW, THEREFORE, for good and valuable considerations, the receipt and sufficiency of which are hereby acknowledged, I/we assign and transfer to the Assignee and the Assignee's legal representatives, successors and assigns my/our full and exclusive rights in

Page 1 of 3

and to the invention in the U.S. and every foreign country and my/our entire right, title, and interest in and to the patent application and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications, and utility model applications) that may be filed in the United States and every foreign country on the invention, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon, and I/we do hereby authorize and request the Commissioner of Patents to issue U.S. patents to the above-mentioned Assignee agreeably with the terms of this assignment document.

UPON SAID CONSIDERATION, I/we convey to the Assignee the right to make application in its own behalf for protection of the invention in the U.S. and countries foreign to the U.S. and to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of the U.S. application (or any other application on the invention) to gain priority with respect to other applications.

I/WE DO HEREBY COVENANT and agree with the Assignee that I/we will not execute any writing or do any act whatsoever conflicting with the terms of this assignment document set forth herein, and that I/we will at any time upon request, without further or additional consideration, but at the expense of the Assignee, execute such additional assignments and other writings and do such additional acts as the Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the U.S. or of any and all foreign countries on the invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of all parties hereto.

Date _____

Thomas Renner, Inventor

Date	Frank Castillo-Weiter, Inventor
Date	
	Stephane Haag, Inventor
Date 01. 10. 2019	<u></u>
	Martin Gorny, Inventor
Date	
	Theis Ohlhaver, Inventor
Date	
	Roberta Olindo, Inventor

I, Thomas Renner, a citizen of Germany, residing at Nordendstrasse 55; 60318 Frankfurt am Main; GERMANY; and

I, Frank Castillo-Welter, a citizen of Germany, residing at Obere Roemerhofstrasse 154; 61381 Friedrichsdorf; GERMANY; and

Stephane Haag, a citizen of France, residing at Darmstaedter Landstrasse 186;
 60598 Frankfurt am Main; GERMANY; and

I, Martin Gorny, a citizen of Germany, residing at Brunnenstrasse 26; 65760 Eschborn; GERMANY; and

I, Theis Ohlhaver, a citizen of Germany, residing at Droysenstrasse 16; 60385 Frankfurt am Main; GERMANY; and

I, Roberta Olindo, a citizen of Italy, residing at Berger Marktplatz 8; 60388 Frankfurt am Main; GERMANY;

and each of us, if more than one person is identified above, have invented and own a certain invention entitled:

PROCESS FOR PRODUCING SHORT-CHAIN OLEFINS WITH PROLONGED CYCLE TIME

for which invention International Application No. PCT/EP2013/059336 was filed on May 6, 2013, designating the U.S. and

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Date	Frank Castillo-Welter, Inventor
Date	Stephane Haag, Inventor
Date	Martin Gorny, Inventor
Date 4/10/2014	Areis Munarel-
Date	Theis Ohlhaver, Inventor Roberta Olindo, Inventor

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Date	
	Frank Castillo-Welter, Inventor
Date	Stephane Haag, Inventor
Date	Martin Gorny, Inventor
Date	Theis Ohlhaver, Inventor
Date 23 10.2014	Roberta Olindo, Inventor

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RECORDED: 11/11/2014