

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HANS-JÜRGEN MAASS	07/06/2018
VOLKER GÖKE	07/12/2018
OTTO MACHHAMMER	10/24/2018
ANDREAS BODE	07/25/2018
GRIGORIOS KOLIOS	09/05/2018
KARSTEN BÜKER	06/13/2018
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City:	ESSEN
State/Country:	GERMANY
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Name:	THYSSENKRUPP AG
Street Address:	THYSSENKRUPP ALLEE 1
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State/Country:	GERMANY
Postal Code:	45143
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15779596
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<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>	
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Address Line 2:	SUITE 2400
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PATENT

ATTORNEY DOCKET NUMBER:	151012P30US
NAME OF SUBMITTER:	WILLIAM J CASSIN
SIGNATURE:	/William J. Cassin Reg. No. 65192/
DATE SIGNED:	11/13/2018
Total Attachments: 4 source=151012P30US_Assignment#page1.tif source=151012P30US_Assignment#page2.tif source=151012P30US_Assignment#page3.tif source=151012P30US_Assignment#page4.tif	

ASSIGNMENT

WHEREAS, we, the undersigned inventors, having our residences as set forth below, hereinafter referred to as "ASSIGNORS," have invented a certain new invention for:

METHOD FOR PRODUCING SYNTHESIS GAS

as described and set forth in U.S. National Stage Patent Application No. 15/779,596 filed on May 29, 2018, and related PCT International Patent Application No. PCT/EP2016/025155 filed on November 28, 2016, preparatory to obtaining Letters Patent of the United States therefor; and

WHEREAS, THYSSENKRUPP INDUSTRIAL SOLUTIONS AG, a company organized under the laws of Germany, with its principal place of business at ThyssenKrupp Allee 1, 45143 Essen, Germany and THYSSENKRUPP AG, a company organized under the laws of Germany, with its principal place of business at ThyssenKrupp Allee 1, 45143 Essen, Germany, hereinafter collectively referred to as "ASSIGNEES", are together desirous of jointly acquiring ASSIGNORS' entire right, title and interest in and to said invention, improvements, application and any Letters Patents which may be granted therefor or thereupon in any country, together with any and all non-provisional applications, divisions, continuations, continuations-in-part, reissues and extensions thereof in all countries throughout the world;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration by ASSIGNEES to ASSIGNORS, the receipt and sufficiency of which is hereby acknowledged, ASSIGNORS hereby sell, assign, transfer and set over unto ASSIGNEES, their respective successors and assigns, the entire right, title and interest in and to said invention, improvements, and in and to said application and any Letters Patents which may be granted therefor or thereupon, together with any and all non-provisional applications, divisions, continuations, continuations-in-part, reissues and extensions thereof, and ASSIGNORS authorize and request the Commissioner of Patents and Trademarks to issue any Letters Patent which may be granted for or upon said invention or applications, or patents resulting therefrom, insofar as my interest is concerned, unto ASSIGNEES in accordance with this Assignment. To the extent applicable, ASSIGNORS also hereby assign to ASSIGNEES, their respective successors and assigns, all right, title and interest to sue third parties for any past, present or future infringement, and to collect all damages relating thereto, of all Letters Patents assigned herein.

ASSIGNORS also assign to ASSIGNEES, all right, title and interest in and to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs throughout the world, including all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and ASSIGNORS further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in ASSIGNEES.

ASSIGNORS will communicate to ASSIGNEES, their respective successors and assigns or their representatives, any facts known to us respecting said invention and improvements; and,

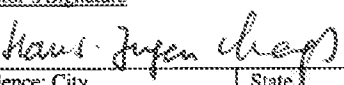
JOINT ASSIGNMENT

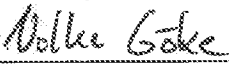
Attorney Docket No. 151012P30US

at the expense of ASSIGNEES, ASSIGNORS will fully cooperate in any legal proceedings, including any proceeding within the United States Patent and Trademark Office or other Patent Office anywhere in the world, relating thereto, sign all lawful papers, execute all non-provisional, divisional, continuing, continuations-in-part, reissue and substitute applications, make all rightful oaths and declarations, and, in addition, execute any and all documents required to vest title in ASSIGNEES and to aid ASSIGNEES to obtain and enforce proper protection for said invention in all countries.

ASSIGNORS covenant that ASSIGNORS have the full right to convey the interest assigned by this Assignment, and that ASSIGNORS have not executed and will not execute any agreement in conflict with this Assignment.

This Assignment shall be binding on the parties' successors, assigns and legal representatives.

NAME OF SOLE OR FIRST INVENTOR:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
<u>Given Name (first and middle if any)</u> Hans-Jürgen		<u>Family Name or Surname</u> MAASS	
<u>Inventor's Signature</u> 		<u>Date (mm/dd/yyyy)</u> 06.07.2018	
<u>Residence: City</u> Dresden	<u>State</u>	<u>Country</u> DE	
<u>Mailing Address</u> Am Sportplatz 14			
<u>City</u> Dresden	<u>State</u>	<u>Postal (Zip) Code</u> 01328	<u>Country</u> DE

NAME OF ADDITIONAL JOINT INVENTOR, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
<u>Given Name (first and middle if any)</u> Volker		<u>Family Name or Surname</u> GÖKE	
<u>Inventor's Signature</u> 		<u>Date (mm/dd/yyyy)</u> 12.07.2018	
<u>Residence: City</u> Geretsried	<u>State</u>	<u>Country</u> DE	
<u>Mailing Address</u> St. Hubertusstr. 13b			
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NAME OF ADDITIONAL JOINT INVENTOR, if any:	<input type="checkbox"/> A petition has been filed for this unsigned inventor
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Assignment – page 2 of 4

Given Name (first and middle if any)		Family Name or Surname	
Otto		MACHHAMMER	
Inventor's Signature <i>Otto Machhammer</i>		Date (mm/dd/yyyy) 24.10.2018	
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NAME OF ADDITIONAL JOINT INVENTOR, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle if any)		Family Name or Surname	
Andreas		BODE	
Inventor's Signature <i>Andreas Bode</i>		Date (mm/dd/yyyy) 07/25/2018	
Residence: City	State	Country	
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Mailing Address Rheindammstr. 46			
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NAME OF ADDITIONAL JOINT INVENTOR, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle if any)		Family Name or Surname	
Grigorios		KOLIOS	
Inventor's Signature <i>Grigorios Kolios</i>		Date (mm/dd/yyyy) 09/05/2018	
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NAME OF ADDITIONAL JOINT INVENTOR, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle if any)		Family Name or Surname	
Karsten		BÜKER	

JOINT ASSIGNMENT

Attorney Docket No. 151012P30US

<u>Inventor's Signature</u> <i>Karsten Biko</i>		<u>Date (mm/dd/yyyy)</u> <i>06/13/2018</i>	
<u>Residence: City</u> Dortmund	<u>State</u>	<u>Country</u> DE	
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