PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
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BRADLEY LEONARD HALLECK	03/10/2014
TOM KIRSCHENHEITER	03/05/2014
BENJAMIN HOSSA	03/05/2014
CLAY POTTEBAUM	03/05/2014
CLAUDIO MISKYS	03/06/2014

RECEIVING PARTY DATA

Name:	ASM IP Holding B.V.
Street Address:	Versterkerstraat 8, 1322 AP
City:	Almere
State/Country:	NETHERLANDS

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16213702

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DATE SIGNED:	12/11/2018

Total Attachments: 4

505229339

PATENT REEL: 047735 FRAME: 0256



PATENT REEL: 047735 FRAME: 0257

ASSIGNMENT

WHEREAS WE, the below-named inventors (hereinafter "Assignors"), have made an invention entitled: "GAS DISTRIBUTION SYSTEM" for which an application for United States Letters Patent is being or has been filed; and

WHEREAS, ASM IP Holding B.V., (hereinafter "Assignee"), having a principal place of business at Versterkerstraat 8, 1322 AP Almere, The Netherlands, is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention, as well as all applications related to this application now or hereafter filed anywhere in the world and all Letters Patents granted from any of the foregoing applications;

NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, we, as Assignors, have sold, assigned, and transferred unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, and this application, and all divisions, continuations, and continuations-in-part thereof, and all Letters Patent of the United States which may be granted thereon, and all reexaminations certificates and reissues thereof, as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent which may now or hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof in any country; and we hereby authorize and request the United States Patent and Trademark Office and any official of any foreign country whose duty it is to issue Letters Patent on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that we have the full right to convey the interest assigned by this Assignment, and we have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that we will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, continuation-in-part and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, we have hereunto set our hands.

INVENTOR'S NAME	HOME ADDRESS	SIGNATURE	DATE
Mark Hawkins	3440 E. University Drive	Man Hacks	Maper 5,2014
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INVENTOR'S NAME	HOME ADDRESS	SIGNATURE	DATE
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	Phoenix, AZ 85034		

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ASSIGNMENT

WHEREAS WE, the below-named inventors (hereinafter "Assignors"), have made an invention entitled: "GAS DISTRIBUTION SYSTEM" for which an application for United States Letters Patent is being or has been filed; and

WHEREAS, ASM IP Holding B.V., (hereinafter "Assignee"), having a principal place of business at Versterkerstraat 8, 1322 AP Almere, The Netherlands, is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention, as well as all applications related to this application now or hereafter filed anywhere in the world and all Letters Patents granted from any of the foregoing applications;

NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, we, as Assignors, have sold, assigned, and transferred unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, and this application, and all divisions, continuations, and continuations-in-part thereof, and all Letters Patent of the United States which may be granted thereon, and all reexaminations certificates and reissues thereof, as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent which may now or hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof in any country; and we hereby authorize and request the United States Patent and Trademark Office and any official of any foreign country whose duty it is to issue Letters Patent on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that we have the full right to convey the interest assigned by this Assignment, and we have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that we will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, continuation-in-part and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, we have hereunto set our hands.

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