505476107 05/14/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5522911

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| THOMAS BEHR | 03/27/2019 |
| KLAUS GEIGER | 03/28/2019 |
| UDO GRIMMER | 03/29/2019 |
| TOBIAS HANSCHKE | 03/29/2019 |
| MARTIN HARTWEG | 03/27/2019 |
| VOLKER LAGEMANN | 03/27/2019 |
| HARALD SCHEIB | 04/15/2019 |
| SEBASTIAN SCHIEFER | 03/31/2019 |
| MARTIN STROEER | 04/10/2019 |
| SILVIA TOMASCHKO | 04/01/2019 |

RECEIVING PARTY DATA

| Name: | DAIMLER AG |
|-----------------|---------------------|
| Street Address: | MERCEDESSTRASSE 137 |
| City: | STUTTGART |
| State/Country: | GERMANY |
| Postal Code: | 70327 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16349880 |

CORRESPONDENCE DATA

Fax Number: (202)628-8844

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.

Phone: 202-624-2500

Email: edocket@crowell.com, abaland@crowell.com

CROWELL & MORING LLP INTELLECTUAL PROPERTY GROUP Correspondent Name:

Address Line 1: P.O. BOX 14300

Address Line 4: WASHINGTON, D.C. 20044-4300

ATTORNEY DOCKET NUMBER: 095309.PC219US

> PATENT REEL: 049177 FRAME: 0467

505476107

| NAME OF SUBMITTER: | ROBERT L. GRABAREK, JR. |
|--------------------------------------|--|
| SIGNATURE: /Robert L. Grabarek, Jr./ | |
| DATE SIGNED: | 05/14/2019 |
| | This document serves as an Oath/Declaration (37 CFR 1.63). |
| Total Attachments: 10 | · |
| source=PC219US Assignment and | Declaration#page1.tif |
| source=PC219US Assignment and | Declaration#page2.tif |
| source=PC219US Assignment and | Declaration#page3.tif |
| source=PC219US Assignment and | Declaration#page4.tif |
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PATENT REEL: 049177 FRAME: 0468

| the of the chima. | Cynoder Flousing for a Reciprocating-Piston Internal Combustion Engine |
|--|---|
| the application is PCT Internation | claration are directed to (check one): lentified above by the attorney docket no. and title of invention al Application Number PCT/EP2017/001181, filed October 6, 2017 oplication No |
| | <u>ASSIGNMENT</u> |
| | consideration, the receipt and sufficiency of which are hereby acknowledged, as a have sold and assigned, and by these presents hereby sell and assign, unto: |
| Name of Assignee: | Daimler AG |
| Address of Assignee: | Mercedesstrasse 137, 70327 Stuttgart, GERMANY |
| and to the above-identif continuations thereof, a such application or for s enjoyed by said ASSIG | all my right, title and interest for the United States, its territories and possessions in fied invention and United States patent application, including any and all divisions or and in and to any and all Letters Patent of the United States which may issue on any aid invention, including any and all reissues or extensions thereof, to be held and NEE, its successors or assigns to the full end of the term or terms for which any and all be granted as fully and entirely as would have been held and enjoyed by me had this ade. |
| | equest the Director of the U.S. Patent and Trademark Office to issue any and all such SSIGNEE, its successors or assigns in accordance herewith. |
| | that I have the full and unencumbered right to sell and assign the interests herein sold have not executed and will not execute any document or instrument in conflict |
| or assigns all informatic and deliver any papers, acts deemed necessary of perfect title to said inve- all Leiters Patent which ASSIGNEE, its success | gree that I will communicate to said ASSIGNEE, its successors, legal representatives on known to me relating to said invention or patent application and that I will execute make all rightful oaths, testify in any legal proceedings and perform all other lawful or desirable by said ASSIGNEE, its successors, legal representatives or assigns to notion, to said application including divisions and continuations thereof and to any and may be granied therefor or thereon, including reissues or extensions, in said ors or assigns, or to assist said ASSIGNEE, its successors, legal representatives or essuing or enforcing Letters Patent of the United States for said invention. |
| | <u>DECLARATION</u> |
| As a below named inver | ntor, I hereby declare that: |
| The above-identified ap | plication was made or authorized to be made by me. |
| I believe that I am the o | riginal inventor or an original joint inventor of a claimed invention in the application. |
| 1001 by fine or imprisor Signature: | nat any willful false statement made in this declaration is punishable under 18 U.S.C. ament of not more than five (5) years, or both. 2019/03/27 ASBEHR DATE |
| | |

| Title of Invention: Cylinder Housing for a Reciprocating-Piston Internal Combustion Engine |
|--|
| This assignment and declaration are directed to (check one): the application identified above by the attorney docket no. and title of invention PCT international Application Number PCT/EP2017/001181, filed October 6, 2017 United States Application No |
| ASSIGNMENT |
| For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, as a below named inventor I have sold and assigned, and by these presents hereby sell and assign, unto: |
| Name of Assignee: Daimler AG |
| Address of Assignee: Mercedesstrasse 137, 70327 Stuttgart, GERMANY |
| (hereinafter ASSIGNEE) all my right, title and interest for the United States, its territories and possessions in and to the above-identified invention and United States patent application, including any and all divisions or continuations thereof, and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors or assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by me had this Assignment not been made. |
| I hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith. |
| I warrant and covenant that I have the full and unencumbered right to sell and assign the interests herein sold and assigned and that I have not executed and will not execute any document or instrument in conflict herewith. |
| I further covenant and agree that I will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to me relating to said invention or patent application and that I will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention; to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors or assigns, or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention. |
| <u>DECLARATION</u> |
| As a below named inventor, I hereby declare that: |
| The above-identified application was made or authorized to be made by me. |
| I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. |
| I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. |
| Signature: 12.03.2010 Inventor: Kights GEIGER DATE |

| Title of Invent | ion: Cylinder Housing for a Reciprocating | -Piston Internal Combustion Engine |
|---|--|---|
| ☐ the appl 図 PCT Int | it and declaration are directed to (check one): ication identified above by the attorney docket ernational Application Number PCT/EP2017/0 States Application No. | 01181, filed October 6, 2017 |
| | ASSIGNME | Z.I. |
| For good and v below named in | aluable consideration, the receipt and sufficient eventor I have sold and assigned, and by these p | cy of which are hereby acknowledged, as a presents hereby sell and assign, unto: |
| Name of Assig | nee: Daimler AG | |
| Address of Ass | ignee: Mercedesstrasse 137, 70327 Stuttga | rt, GERMANY |
| and to the above continuations the such application enioved by sale | e-identified invention and United States patent nereof, and in and to any and all Letters Patent n or for said invention, including any and all re ASSIGNEE, its successors or assigns to the fu- tent may be granted as fully and entirely as wo- | of the United States which may issue on any |
| I hereby author Letters Patent t | ize and request the Director of the U.S. Patent is a said ASSIGNEE, its successors or assigns in | and Trademark Office to issue any and all such accordance herewith. |
| I warrant and c and assigned at herewith. | ovenant that I have the full and unencumbered and that I have not executed and will not execute | right to sell and assign the interests herein sold any document or instrument in conflict |
| or assigns all ir and deliver any acts deemed ne perfect title to s all Letters Pate ASSIGNEE, its | formation known to me relating to said inventi papers, make all rightful oaths, testify in any le cessary or desirable by said ASSIGNEE, its sue | ccessors, legal representatives or assigns to islons and continuations thereof and to any and cluding reissues or extensions, in said NEE, its successors, legal representatives or |
| | <u>DECLARATI</u> | ON |
| As a below nan | ned inventor, I hereby declare that: | |
| The above-ider | tified application was made or authorized to be | made by me. |
| I believe that I | am the original inventor or an original joint inv | entor of a claimed invention in the application. |
| | wledge that any willful false statement made in imprisonment of not more than five (5) years, | or both. |
| Signature: Inventor: | Udo GRIMMER | 2019/03/29 DATE |
| autoritation (F.E. M.) a | Ř. | |

| Title of Invention: | Cylinder Housing for a Reciprocating-Piston Internal C | Combustion Engine |
|--|--|---|
| the application i | claration are directed to (check one): dentified above by the attorney docket no, and title of inval al Application Number PCT/EP2017/001181, filed Octol optication No, filed | ber 6, 2017 |
| | ASSIGNMENT | |
| | consideration, the receipt and sufficiency of which are he have sold and assigned, and by these presents hereby se | |
| Name of Assignee: | Daimler AG | |
| Address of Assignee: | Mercedesstrasse 137, 70327 Stuttgart, GERMANY | |
| and to the above-identif continuations thereof, a such application or for s enjoyed by said ASSIG | ii) all my right, title and interest for the United States, its fied invention and United States patent application, included in and to any and all Letters Patent of the United States said invention, including any and all reissues or extension NEE, its successors or assigns to the full end of the term be granted as fully and entirely as would have been heldade. | ding any and all divisions or as which may issue on any as thereof, to be held and or terms for which any and al |
| | equest the Director of the U.S. Patent and Trademark Of SSIGNEE, its successors or assigns in accordance herew | |
| | that I have the full and unencumbered right to sell and as have not executed and will not execute any document or | |
| or assigns all information and deliver any papers, acts deemed necessary operfect title to said inversall Letters Patent which ASSIGNEE, its success | gree that I will communicate to said ASSIGNEE, its success thrown to me relating to said invention or patent applicant make all rightful oaths, testify in any legal proceedings and desirable by said ASSIGNEE, its successors, legal reportion, to said application including divisions and continuation, to said application including divisions and continuation and be granted therefor or thereon, including reissues or ors or assigns, or to assist said ASSIGNEE, its successor saying or enforcing Letters Patent of the United States for | cation and that I will execute and perform all other lawful resentatives or assigns to ations thereof and to any and rextensions, in said s, logal representatives or |
| | DECLARATION | |
| As a below named inver | ntor, I hereby declare that: | |
| The above-identified ap | plication was made or authorized to be made by me. | |
| I believe that I am the or | riginal inventor or an original joint inventor of a claimed | invention in the application. |
| | nat any willful false statement made in this declaration is imment of not more than five (5) years, or both. | punishable under 18 U.S.C. |
| Signature: Tobias | HANSCHKE | 20 03 2013 DATE |

| Title of Invention: | Cylinder Housing for a Reciprocating-Piston Internal Combustion Engine |
|---|---|
| the application in PCT Internation | claration are directed to (check one); dentified above by the attorney docket no. and title of invention at Application Number PCT/EP2017/001181, filed October 6, 2017 optication No, filed |
| | <u>ASSIGNMENT</u> |
| For good and valuable of below named inventor I | consideration, the receipt and sufficiency of which are hereby acknowledged, as a have sold and assigned, and by these presents hereby sell and assign, unto: |
| Name of Assignee: | Daimler AG |
| Address of Assignee: | Mercedesstrasse 137, 70327 Stuttgart, GERMANY |
| and to the above-identity continuations thereof, a such application or for enjoyed by said ASSIG | E) all my right, title and interest for the United States, its territories and possessions in fied invention and United States patent application, including any and all divisions or and in and to any and all Letters Patent of the United States which may issue on any said invention, including any and all reissues or extensions thereof, to be held and NEE, its successors or assigns to the full end of the term or terms for which any and all be granted as fully and entirely as would have been held and enjoyed by me had this ade. |
| | request the Director of the U.S. Patent and Trademark Office to issue any and all such SSIGNEE, its successors or assigns in accordance herewith. |
| I warrant and covenant and assigned and that I herewith. | that I have the full and unencumbered right to sell and assign the interests herein sold have not executed and will not execute any document or instrument in conflict |
| or assigns all informati- and deliver any papers, acts deemed necessary perfect title to said invi- all Letters Patent which ASSIGNEE, its success | agree that I will communicate to said ASSIGNEE, its successors, legal representatives on known to me relating to said invention or patent application and that I will execute make all rightful oaths, testify in any legal proceedings and perform all other lawful or desirable by said ASSIGNEE, its successors, legal representatives or assigns to ention, to said application including divisions and continuations thereof and to any and may be granted therefor or thereon, including reissues or extensions, in said sors or assigns, or to assist said ASSIGNEE, its successors, legal representatives or issuing or enforcing Letters Patent of the United States for said invention. |
| | <u>DECLARATION</u> |
| As a below named inve | entor, I hereby declare that: |
| The above-identified a | oplication was made or authorized to be made by me. |
| | original inventor or an original joint inventor of a claimed invention in the application. |
| I hereby acknowledge 1001 by fine or imprise | that any willful false statement made in this declaration is punishable under 18 U.S.C. onment of not more than five (5) years, or both. |
| Signature: Inventor: Marti | 27.03.20/9 n HARTWEG Z7.03.20/9 |

| Title of Invention: | Cylinder Housing for a Reciprocating-P | iston Internal Combustion Engine |
|--|--|--|
| ☐ the application i ☑ PCT Internation | claration are directed to (check one): dentified above by the attorney docket no al Application Number PCT/EP2017/001 optication No, fil- | 181, filed October 6, 2017 |
| √% | ASSIGNMENT | |
| | consideration, the receipt and sufficiency have sold and assigned, and by these pre | |
| Name of Assignee: | Daimler AG | |
| Address of Assignce: | Mercedesstrasse 137, 70327 Stuttgart, | GERMANY |
| and to the above-identificontinuations thereof, a such application or for enjoyed by said ASSIG | ried invention and United States patent ap nd in and to any and all Letters Patent of said invention, including any and all reiss NEE, its successors or assigns to the full be granted as fully and entirely as would | nited States, its territories and possessions in plication, including any and all divisions or the United States which may issue on any ues or extensions thereof, to be held and end of the term or terms for which any and all have been held and enjoyed by me had this |
| | equest the Director of the U.S. Patent and SSIGNEE, its successors or assigns in acc | I Trademark Office to issue any and all such cordance herewith, |
| | that I have the full and unencumbered rig have not executed and will not execute an | ht to sell and assign the interests herein sold ny document or instrument in conflict |
| or assigns all informatic and deliver any papers, acts deemed necessary of perfect title to said inve- all Letters Patent which ASSIGNEE, its success | on known to me relating to said invention make all rightful oaths, testify in any lega or desirable by said ASSIGNEE, its succe | ons and continuations thereof and to any and diding reissues or extensions, in said. E, its successors, legal representatives or |
| | <u>DECLARATIO</u> | N |
| As a below named inver | ntor, I hereby declare that: | |
| The above-identified ap | plication was made or authorized to be m | ade by me, |
| I believe that I am the o | riginal inventor or an original joint invent | tor of a claimed invention in the application. |
| | nat any willful false statement made in thi nment of not more than five (5) years, or | is declaration is punishable under 18 U.S.C. both. |
| Signature: Inventor: Volker | LAGEMANN | 27.03.2048 DATE |

(For Use with Signed Application Data Sheet)

Cylinder Housing for a Reciprocating-Piston Internal Combustion Engine

| S 2 | ssignment and declaration are directed to (check one): | |
|-------------|--|--|
| | the application identified above by the attorney docket no. and title of invention | |
| \boxtimes | the application identified above by the attorney docket no. and title of invention PCT International Application Number PCT/EP2017/001181, filed October 6, 2017 | |
| | United States Application No, filed | |

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, as a below named inventor I have sold and assigned, and by these presents hereby sell and assign, unto:

Name of Assignce:

Title of Invention:

Daimler AG

Address of Assignee: Mercedesstrasse 137, 70327 Stuttgart, GERMANY

(hereinafter ASSIGNEE) all my right, title and interest for the United States, its territories and possessions in and to the above-identified invention and United States patent application, including any and all divisions or continuations thereof, and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors or assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by me had this Assignment not been made.

I hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith.

I warrant and covenant that I have the full and unencumbered right to sell and assign the interests herein sold and assigned and that I have not executed and will not execute any document or instrument in conflict herewith.

I further covenant and agree that I will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to me relating to said invention or patent application and that I will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissnes or extensions, in said ASSIGNEE, its successors or assigns, or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention.

DECLARATION

As a below named inventor, I hereby declare that:

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Signature:

72.4/3/4

Inventor:

(For Use with Signed Application Data Sheet)

| Title of Invention: Cylinder Housing for a Reciprocating-Piston Internal Co | ombustion Engine | |
|---|--|--|
| This assignment and declaration are directed to (check one): the application identified above by the attorney docket no. and title of inverse PCT International Application Number PCT/EP2017/001181, filed October United States Application No | er 6, 2017 | |
| <u>ASSIGNMENT</u> | | |
| For good and valuable consideration, the receipt and sufficiency of which are here below named inventor I have sold and assigned, and by these presents hereby sell | eby acknowledged, as a and assign, unto: | |
| Name of Assignee: Daimler AG | | |
| Address of Assignee: Mercedesstrasse 137, 70327 Stuttgart, GERMANY | | |
| (hereinafter ASSIGNEE) all my right, title and interest for the United States, its to and to the above-identified invention and United States patent application, includic continuations thereof, and in and to any and all Letters Patent of the United States such application or for said invention, including any and all reissues or extensions enjoyed by said ASSIGNEE, its successors or assigns to the full end of the term of such Letters Patent may be granted as fully and entirely as would have been held a Assignment not been made. | ing any and all divisions or s which may issue on any s thereof, to be held and or terms for which any and all | |
| I hereby authorize and request the Director of the U.S. Patent and Trademark Offi Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewit | ice to issue any and all such h. | |
| I warrant and covenant that I have the full and unencumbered right to sell and assigned and that I have not executed and will not execute any document or in herewith. | ign the interests herein sold astrument in conflict | |
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| DECLARATION | | |
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| I believe that I am the original inventor or an original joint inventor of a claimed in | | |
| I hereby acknowledge that any willful false statement made in this declaration is p 1001 by fine or imprisonment of not more than five (5) years, or both. | ounishable under 18 U.S.C. | |
| Signature: Inventor: Sebastian SCHIEFER | 31.03. 7013 DATE | |

(For Use with Signed Application Data Sheet)

| Title of Invention: | Cylinder Housing for a Reciprocating | -Piston Internal Combustion Engine | | |
|--|---|--|--|--|
| the application in PCT Internation | claration are directed to (check one): dentified above by the attorney docket al Application Number PCT/EP2017/00 pplication No. | 01181, filed October 6, 2017 | | |
| <u>ASSIGNMENT</u> | | | | |
| | consideration, the receipt and sufficienc have sold and assigned, and by these p | y of which are hereby acknowledged, as a resents hereby sell and assign, unto: | | |
| Name of Assignee: | Daimler AG | | | |
| Address of Assignee: | Mercedesstrasse 137, 70327 Stutiga | ri, GERMANY | | |
| and to the above-identif continuations thereof, a such application or for a enjoyed by said ASSIG | ried invention and United States patent and in and to any and all Letters Patent of said invention, including any and all re- NEE, its successors or assigns to the fu- be granted as fully and entirely as wor | United States, its territories and possessions in application, including any and all divisions or of the United States which may issue on any ssues or extensions thereof, to be held and all end of the term or terms for which any and all have been held and enjoyed by me had this | | |
| | equest the Director of the U.S. Patent a SSIGNEE, its successors or assigns in | and Trademark Office to issue any and all such accordance herewith. | | |
| | | right to sell and assign the interests herein sold any document or instrument in conflict | | |
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| | <u>DECLARATI</u> | <u>ON</u> | | |
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| | hat any willful false statement made in nment of not more than five (5) years, | this declaration is punishable under 18 U.S.C. or both. | | |
| Signature: | 4/4 | 12 4. 2019 DATE | | |

PATENT REEL: 049177 FRAME: 0477

U.S. Rights

ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. § 1.63

(For Use with Signed Application Data Sheet)

| little of Invention: | Cylinder Housing for a Reciprocating-Piston Internal Combustion Engine |
|----------------------|---|
| | fecturation are directed to (check one): identified above by the attorney docket no, and title of invention |
| | mal Application Number PCT/EP2017/001181, filed October 6, 2017 Application No, filed |
| [] Citted Bines | approximation (180). |

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, as a below named inventor I have sold and assigned, and by these presents hereby sell and assign, unto:

Name of Assignee:

Title of Invention:

Daimler AG

Address of Assignee: Mercedesstrasse 137, 70327 Stuttgart, GERMANY

(hereinafter ASSIGNEE) all my right, title and interest for the United States, its territories and possessions in and to the above-identified invention and United States patent application, including any and all divisions or continuations thereof, and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors or assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by me had this Assignment not been made,

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Signature:

Inventor:

April 1, 2019

JRACTIVE-8587273-1

PATENT

REEL: 049177 FRAME: 0478