#### 503835480 05/20/2016

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3882128

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
JOSEF SCHROPP	03/08/2016
MANFRED SCHOENAUER	03/08/2016
WOLFGANG PAHLE	03/08/2016
MARKUS BARTEL	03/16/2016
TOBIAS FISCHL	03/10/2016
JOHANN BAUMGARTNER	03/08/2016
ANDREAS PETSCHKE	03/15/2016
MARKUS BOHMANN	04/11/2016

#### **RECEIVING PARTY DATA**

Name:	KNORR-BREMSE SYSTEME FUER NUTZFAHRZEUGE GMBH
Street Address:	MOOSACHER STR. 80
City:	MUENCHEN
State/Country:	GERMANY
Postal Code:	80809

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15059817

#### **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.

Email: mbrooks@crowell.com

Correspondent Name: CROWELL & MORING LLP

Address Line 1: 1001 PENNSYLVANIA AVENUE NW

Address Line 4: WASHINGTON, D.C. 20004

ATTORNEY DOCKET NUMBER:	113571.68758CP
NAME OF SUBMITTER:	MARK H. NEBLETT, REG. NO. 42,028
SIGNATURE:	/Mark H. Neblett/
DATE SIGNED:	05/20/2016

PATENT REEL: 038655 FRAME: 0020

503835480

This document serves as an Oath/Declaration (37 CFR 1.63).

#### **Total Attachments: 8**

source=68758CP\_Combined Assignment and Declarations#page1.tif source=68758CP\_Combined Assignment and Declarations#page2.tif source=68758CP\_Combined Assignment and Declarations#page3.tif source=68758CP\_Combined Assignment and Declarations#page4.tif source=68758CP\_Combined Assignment and Declarations#page5.tif source=68758CP\_Combined Assignment and Declarations#page6.tif source=68758CP\_Combined Assignment and Declarations#page7.tif source=68758CP\_Combined Assignment and Declarations#page8.tif

(For Use with Signed Application Data Sheet)

Title of Invention:	Disc Brake and Brake Pad Set		
the application in PCT Internation	claration are directed to (check of dentified above by the attorney deal Application Number	locket no. and title of invention, filed	on
	ASSIGN	<u>IMENT</u>	
	consideration, the receipt and suf I have sold and assigned, and by		
Name of Assignee: Address of Assignee:	KNORR-BREMSE Systeme f Moosacher Str. 80, 80809 Mu		
and to the above-identificontinuations thereof, a application or for said is by said ASSIGNEE, its	E) all my right, title, and interest fied invention and United States and in and to any and all Letters I nvention, including any and all nuccessors, or assigns to the full granted as fully and entirely as woulde.	patent application, including Patent of the United States the eissues or extensions thereof lend of the term or terms for	any and all divisions or at may issue on any such , to be held and enjoyed which any and all such
	request the Director of the U.S. P SSIGNEE, its successors, or assi		to issue any and all such
	that I have the full and unencum have not executed and will not e		
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 that may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, legal representatives, or assigns in obtaining, reissuing, or enforcing Letters Patent of the United States for said invention.			
	DECLAR	RATION	
As a below named inve	ntor, I hereby declare that:		
The above-identified ap	oplication was made or authorize	d to be made by me.	
I believe that I am the c	original inventor or an original jo	int inventor of a claimed inve	ention in the application.
	hat any willful false statement moment of not more than five (5)		ishable under 18 U.S.C.
Signature: Josef	SCHROPP		March 8, 2016

(For Use with Signed Application Data Sheet)

Title of Invention:	Disc Brake and Brake Pad Set			
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, filed  United States Application No. 15/059,817, filed on March 3, 2016				
	ASSIGNME	NT		
	consideration, the receipt and sufficient I have sold and assigned, and by these			
Name of Assignee: Address of Assignee:	KNORR-BREMSE Systeme fuer Moosacher Str. 80, 80809 Munich,			
and to the above-ident continuations thereof, such application or for enjoyed by said ASSIG	(E) all my right, title and interest for the ified invention and United States paten and in and to any and all Letters Patent said invention, including any and all respect, its successors or assigns to the fay be granted as fully and entirely as we nade.	application, including any of the United States which sissues or extensions there all end of the term or term	y and all divisions or h may issue on any of, to be held and is for which any and all	
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.				
	DECLARAT	<u>ION</u>		
As a below named inv	entor, 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:  Houch & 1016				
Signature: Inventor: Manf	<u> Vainted Oficial</u> red schoenaver		ATE	

(For Use with Signed Application Data Sheet)

A ARON ISA BARWERININA	Disc Brake and Brake Pad Set	
	leclaration are directed to (check of identified above by the attorney of	
PCT Internatio	nal Application Number	, filed
United States /	Application No. <u>15/059,817</u> , filed	on March 3, 2016

#### 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 Assignec:

KNORR-BREMSE Systeme fuer Nutzfahrzeuge GmbH

Address of Assignee: Moosacher Str. 80, 80809 Munich, 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 that 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 that 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.

#### 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 bereby 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: Inventor:

Wolfgang PANILL DATE

Markus BARTEL

Inventor:

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

(For Use with Signed Application Data Sheet)

Title of Invention:	Disc Brake and Brake Pad Set		
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			
•	<u>ASSIGNMENT</u>		
	nsideration, the receipt and sufficiency of which are hereby acknowledged, as a ave sold and assigned, and by these presents hereby sell and assign, unto:		
	NORR-BREMSE Systeme fuer Nutzfahrzeuge GmbH Ioosacher Str. 80, 80809 Munich, GERMANY		
and to the above-identified continuations thereof, and such application or for sai enjoyed by said ASSIGNI	all my right, title and interest for the United States, its territories and possessions in d invention and United States patent application, including any and all divisions or in and to any and all Letters Patent of the United States which may issue on any d invention, including any and all reissues or extensions thereof, to be held and EE, its successors or assigns to the full end of the term or terms for which any and all e granted as fully and entirely as would have been held and enjoyed by me had this ie.		
	uest the Director of the U.S. Patent and Trademark Office to issue any and all such IGNEE, its successors or assigns in accordance herewith.		
	at I have the full and unencumbered right to sell and assign the interests herein sold ve not executed and will not execute any document or instrument in conflict		
I further covenant and agree that I will communicate to said ASSIGNEE, its successors, legal representative 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 an 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 invento	or, I hereby declare that:		
The above-identified appli	ication was made or authorized to be made by me.		
I believe that I am the orig	ginal inventor or an original joint inventor of a claimed invention in the application.		
	t any willful false statement made in this declaration is punishable under 18 U.S.C. nent of not more than five (5) years, or both.		
Signature:	603 2011		

PATENT REEL: 038655 FRAME: 0025

DATE

Title of Invention:

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

(For Use with Signed Application Data Sheet)

	Disc Diane and Diane I ad Dec	
	ssignment and declaration are directed to (check one): the application identified above by the attorney docket no.	and title of invention
	PCT International Application Number	filed
$\boxtimes$	United States Application No. 15/059,817, filed on March	3, 2016

Dier Broke and Broke Dad Cat

#### 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: KNORR-BREMSE Systeme fuer Nutzfahrzeuge GmbH

Address of Assignee: Moosacher Str. 80, 80809 Munich, 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 that 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 that 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.

#### **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: 10.03.7016
Inventor: Tobias FISCHL DATE

(For Use with Signed Application Data Sheet)

Title of Invention:	Pisc Brake and Brake Pad Set		
the application ide	aration are directed to (check ntified above by the attorney Application Number lication No. <u>15/059,817</u> , filed	docket no. and title of invent	íon
	ASSIG	MENT	
	nsideration, the receipt and su ave sold and assigned, and by		
	NORR-BREMSE Systeme Ioosacher Str. 80, 80809 Mi	***	ľ
and to the above-identified continuations thereof, and application or for said inveloped by said ASSIGNEE, its su	all my right, title, and interest invention and United States in and to any and all Letters ention, including any and all accessors, or assigns to the fulnted as fully and entirely as we.	patent application, including Patent of the United States the reissues or extensions thereout the term or terms for	g any and all divisions or hat may issue on any such f, to be held and enjoyed r which any and all such
	uest the Director of the U.S. IGNEE, its successors, or ass		
	at I have the full and unencun ve not executed and will not o		
or assigns all information and deliver any papers, materials deemed necessary or perfect title to said invential Letters Patent that may ASSIGNEE, its successor	ee that I will communicate to known to me relating to said ake all rightful oaths, testify i desirable by said ASSIGNEE on, to said application includ be granted therefor or thereos, or assigns, or to assist said aing, or enforcing Letters Pat	invention or patent application any legal proceedings, and , its successors, legal repressing divisions and continuation, including reissues or external ASSIGNEE, its successors, legal repressors, legal repressors, legal reissues or external repressors, legal repressors represso	on and that I will execute perform all other lawful entatives, or assigns to one thereof and to any and usions, in said legal representatives, or
	DECLA	RATION	
As a below named invento	or, I hereby declare that:		
The above-identified appli	cation was made or authorize	ed to be made by me.	
I believe that I am the orig	inal inventor or an original je	oint inventor of a claimed inv	rention in the application.
I hereby acknowledge that 1001 by fine or imprisoner	any willful false statement n ent of not more than five (5)	nade in this declaration is pur years for both.	
Signaturez Inventer: Johann E	AUMGARTNER	<u>/.</u>	08.03.2016 DATE
	MIN'S		

(For Use with Signed Application Data Sheet)

Title of Invention:	Disc Brake and Brake Pad Set			
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				
	ASSIGNM	ENT		
		ency of which are hereby acknowledged, se presents hereby sell and assign, unto:	as a	
Name of Assignee: Address of Assignee:	KNORR-BREMSE Systeme fuer Moosacher Str. 80, 80809 Munich			
(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 that 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 that 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.				
	<b>DECLARA</b>	<u>rion</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: Andre:	as PETSCHKE		<u> 2011</u>	

(For Use with Signed Application Data Sheet)

Title of Invention: Disc Brake and Brake Pad Set
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, filed  United States Application No. 15/059,817, filed on March 3, 2016
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: KNORR-BREMSE Systeme fuer Nutzfahrzeuge GmbH Address of Assignee: Moosacher Str. 80, 80809 Munich, 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 that 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 that 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.
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: Markus BOHMANN Ann Ann Ann Ann Ann Ann Ann Ann Ann

PATENT REEL: 038655 FRAME: 0029

RECORDED: 05/20/2016