504931279 05/25/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4978025

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JENS FRICKE	01/24/2018
ABDELAZIZ RGUICHI	01/26/2018
THOMAS EICHLER	01/25/2018
OLIVER KRAUSE	01/11/2018
MATTHIAS KLINGNER	01/10/2018
MICHAEL PESCHEL	01/29/2018
TOBIAS SCHOEFBERGER	01/10/2018
PHILIPP ADAMCZYK	01/10/2018
MANFRED SCHOENAUER	01/16/2018
MARTIN PLEINTINGER	02/07/2018
MARKUS MOLNAR	02/07/2018
FRANZ GASSLBAUER	02/07/2018
MARTIN TROPP	02/07/2018

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:	15844068

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: 2026242800

Email: ehorne@crowell.com

Correspondent Name: CROWELL & MORING LLP

Address Line 1: P.O. BOX 14300

PATENT

504931279 REEL: 045900 FRAME: 0773

Address Line 4: WASHINGTON, D.C. 20011-4300 TTORNEY DOCKET NUMBER: 037068.PA649US AME OF SUBMITTER: JEFFREY D. SANOK IGNATURE: /Jeffrey D. Sanok/ ATE SIGNED: 05/25/2018 This document serves as an Oath/Declaration (37 CFR 1.63). otal Attachments: 13 ource=PA649US_Combined_DecAssign#page1.tif ource=PA649US_Combined_DecAssign#page2.tif ource=PA649US_Combined_DecAssign#page3.tif ource=PA649US_Combined_DecAssign#page4.tif ource=PA649US_Combined_DecAssign#page5.tif ource=PA649US_Combined_DecAssign#page5.tif		
AME OF SUBMITTER: JEFFREY D. SANOK /Jeffrey D. Sanok/ ATE SIGNED: 05/25/2018 This document serves as an Oath/Declaration (37 CFR 1.63). otal Attachments: 13 ource=PA649US_Combined_DecAssign#page1.tif ource=PA649US_Combined_DecAssign#page2.tif ource=PA649US_Combined_DecAssign#page3.tif ource=PA649US_Combined_DecAssign#page4.tif ource=PA649US_Combined_DecAssign#page4.tif ource=PA649US_Combined_DecAssign#page5.tif		
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ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. § 1.63 (For Use with Signed Application Data Sheet)

		·
Title of Invention:	Disc Brake for a Commercial Veh	icle and Brake Pad Set
the application in PCT Internation	eclaration are directed to (check one dentified above by the attorney doct al Application Numberpplication No. 15/844,068, filed De	ket no. and title of invention, filed
	ASSIGNM	<u>IENT</u>
		iency of which are hereby acknowledged, as a see presents hereby sell and assign, unto:
Name of Assignee:	KNORR-BREMSE Systeme fuer	r Nutzfahrzeuge GmbH
Address of Assignee:	Moosacher Str. 80, 80809 Muenc	hen, GERMANY
and to the above-identificontinuations thereof, a such application or for enjoyed by said ASSIG	fied invention and United States pate nd in and to any and all Letters Pate said invention, including any and all NEE, its successors or assigns to the be granted as fully and entirely as	the United States, its territories and possessions in ent application, including any and all divisions or ent of the United States which may issue on any I reissues or extensions thereof, to be held and e full end of the term or terms for which any and all would have been held and enjoyed by me had this
	request the Director of the U.S. Pate SSIGNEE, its successors or assigns	nt and Trademark Office to issue any and all such in accordance herewith.
		ed right to sell and assign the interests herein sold ute any document or instrument in conflict
or assigns all informatic and deliver any papers, acts deemed necessary operfect title to said inver all Letters Patent which ASSIGNEE, its success	on known to me relating to said inve- make all rightful oaths, testify in an or desirable by said ASSIGNEE, its ntion, to said application including a may be granted therefor or thereon, ors or assigns, or to assist said ASS.	d ASSIGNEE, its successors, legal representatives ention or patent application and that I will execute by legal proceedings and perform all other lawful successors, legal representatives or assigns to divisions and continuations thereof and to any and including reissues or extensions, in said IGNEE, its successors, legal representatives or f the United States for said invention.
	<u>DECLARA</u>	<u>TION</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 or	riginal inventor or an original joint	inventor of a claimed invention in the application.
	hat any willful false statement made nment of not more than five (5) year	in this declaration is punishable under 18 U.S.C. rs, or both.
	Nes Tuly	

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

(For Use with Signed Application Data Sheet)

Title of Invention:	Disc Brake for a Commercial	Vehicle and Brake Pad Set	
the application that the property that the property is the property of the pro	I declaration are directed to (check on identified above by the attorney ional Application Number Application No. 15/844,068, fil	docket no. and title of inventi	
	ASSIG	<u>NMENT</u>	
	ole consideration, the receipt and s for I have sold and assigned, and b		
Name of Assignee:	KNORR-BREMSE Systeme	e fuer Nutzfahrzeuge GmbH	
Address of Assigne	e: Moosacher Str. 80, 80809 M	luenchen, GERMANY	
and to the above-ide continuations therece such application or a enjoyed by said ASS	NEE) all my right, title and interest ntified invention and United State of, and in and to any and all Letters for said invention, including any a SIGNEE, its successors or assigns may be granted as fully and entirely made.	s patent application, including s Patent of the United States w nd all reissues or extensions th to the full end of the term or to	any and all divisions or thich may issue on any hereof, to be held and erms for which any and all
	nd request the Director of the U.S. I ASSIGNEE, its successors or as		to issue any and all such
	ant that I have the full and unencu at I have not executed and will not		
or assigns all inform and deliver any pape acts deemed necessa perfect title to said in all Letters Patent wh ASSIGNEE, its succ	nd agree that I will communicate to atton known to me relating to said ars, make all rightful oaths, testify ry or desirable by said ASSIGNES wention, to said application inclusion may be granted therefor or the essors or assigns, or to assist said reissuing or enforcing Letters Pat	I invention or patent application in any legal proceedings and personance it is successors, legal represeding divisions and continuation reon, including reissues or extra ASSIGNEE, its successors, legal inventions.	on and that I will execute perform all other lawful ntatives or assigns to ns thereof and to any and tensions, in said egal representatives or
	DECLA	<u>RATION</u>	
As a below named in	ventor, I hereby declare that:		
The above-identified	application was made or authoriz	ed to be made by me.	
I believe that I am th	e original inventor or an original j	oint inventor of a claimed inv	ention in the application.
1001 by fine or impr	te that any willful false statement is isonment of not more than five (5) years, or both.	
Signature: Inventor: Abg	elaziz RGUICHI		26.01.201

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

(For Use with Signed Application Data Sheet)

Title of Invention:	Disc Brake for a Commercial Vehicle	le and Brake Pad Set
the application in PCT Internation	selaration are directed to (check one): dentified above by the attorney docker al Application Number pplication No. 15/844,068, filed Dece	, filed
	ASSIGNME	NT
For good and valuable of below named inventor I	consideration, the receipt and sufficier have sold and assigned, and by these	ncy of which are hereby acknowledged, as a presents hereby sell and assign, unto:
Name of Assignee:	KNORR-BREMSE Systeme fuer N	√utzfahrzeuge GmbH
Address of Assignee:	Moosacher Str. 80, 80809 Muenche	en, GERMANY
and to the above-identif continuations thereof, as such application or for s enjoyed by said ASSIGI	Tied invention and United States pater and in and to any and all Letters Patent said invention, including any and all ra NEE, its successors or assigns to the f be granted as fully and entirely as we	e United States, its territories and possessions in t application, including any and all divisions or of the United States which may issue on any eissues or extensions thereof, to be held and full end of the term or terms for which any and all build have been held and enjoyed by me had this
	equest the Director of the U.S. Patent 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 e any document or instrument in conflict
or assigns all informatio and deliver any papers, i acts deemed necessary o perfect title to said inver all Letters Patent which ASSIGNEE, its successo	on known to me relating to said invent make all rightful oaths, testify in any lor desirable by said ASSIGNEE, its su nation, to said application including div may be granted therefor or thereon, in	ASSIGNEE, its successors, legal representatives ion or patent application and that I will execute legal proceedings and perform all other lawful accessors, legal representatives or assigns to visions and continuations thereof and to any and acluding reissues or extensions, in said NEE, its successors, legal representatives or the United States for said invention.
	DECLARAT	<u>ION</u>
	ntor, I hereby declare that:	
	plication was made or authorized to be	
I believe that I am the or	riginal inventor or an original joint inv	ventor of a claimed invention in the application.
	nat any willful false statement made in ment of not more than five (5) years,	this declaration is punishable under 18 U.S.C. or both.
Signature: Va	EICHLER	25.1.18 DATE

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

(For Use with Signed Application Data Sheet)

Title of Invention:	Disc Brake for a Commercial Vel	nicle and Brake Pad Set
☐ the application is ☐ PCT Internations	claration are directed to (check one dentified above by the attorney docal Application Numberpplication No. 15/844,068, filed D	ket no. and title of invention , filed
	ASSIGNM	<u>IENT</u>
For good and valuable of below named inventor I	onsideration, the receipt and suffic have sold and assigned, and by the	ciency of which are hereby acknowledged, as a ese presents hereby sell and assign, unto:
Name of Assignee:	KNORR-BREMSE Systeme fue	r Nutzfahrzeuge GmbH
Address of Assignee:	Moosacher Str. 80, 80809 Muen	chen, GERMANY
and to the above-identificontinuations thereof, at such application or for senjoyed by said ASSIG	ied invention and United States paind in and to any and all Letters Pat raid invention, including any and all NEE, its successors or assigns to the be granted as fully and entirely as	the United States, its territories and possessions in tent application, including any and all divisions or ent of the United States which may issue on any Il reissues or extensions thereof, to be held and he full end of the term or terms for which any and all would have been held and enjoyed by me had this
I hereby authorize and re Letters Patent to said AS	equest the Director of the U.S. Pate SSIGNEE, its successors or assigns	ent and Trademark Office to issue any and all such is in accordance herewith.
		red right to sell and assign the interests herein sold cute any document or instrument in conflict
or assigns all informatio and deliver any papers, r acts deemed necessary o perfect title to said inven all Letters Patent which: ASSIGNEE, its successo	n known to me relating to said inversely and the all rightful caths, testify in an or desirable by said ASSIGNEE, its ation, to said application including may be granted therefor or thereoners or assigns, or to assist said ASS	d ASSIGNEE, its successors, legal representatives ention or patent application and that I will execute by legal proceedings and perform all other lawful successors, legal representatives or assigns to divisions and continuations thereof and to any and a, including reissues or extensions, in said EIGNEE, its successors, legal representatives or of the United States for said invention.
	DECLARA	TION
As a below named inven	tor, I hereby declare that:	
The above-identified app	olication was made or authorized to	be made by me.
I believe that I am the or	iginal inventor or an original joint	inventor of a claimed invention in the application.
	at any willful false statement made unent of not more than five (5) yea	e in this declaration is punishable under 18 U.S.C. urs, or both.
Signature: Inventor: Oliver I	Ofcere	

ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. § 1.63 (For Use with Signed Application Data Sheet)

	Q
Title of Invention:	Disc Brake for a Commercial Vehicle and Brake Pad Set
the application i PCT Internation	eclaration are directed to (check one): identified above by the attorney docket no. and title of invention al Application Number, filed pplication No. 15/844,068, filed December 15, 2017
	<u>ASSIGNMENT</u>
	consideration, the receipt and sufficiency of which are hereby acknowledged, as a 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 Muenchen, GERMANY
and to the above-identif 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 tade.
	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.
	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 inver- 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 nation, to said application including divisions and continuations thereof and to any and may be granted therefor or thereon, including reissues or extensions, in said for or assigns, or to assist said ASSIGNEE, its successors, legal representatives or ssuing 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 or	riginal inventor or an original joint inventor of a claimed invention in the application.
	hat any willful false statement made in this declaration is punishable under 18 U.S.C. nment of not more than five (5) years, or both.
Signature:	# 10.01. 2018 as KLINGNER DATE

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

(For Use with Signed Application Data Sheet)

Title of Invention:	Disc Brake for a Commercial Vehicle as	nd 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. 15/844,068, filed December 15, 2017			
	ASSIGNMEN'	I	
	consideration, the receipt and sufficiency have sold and assigned, and by these pre		
Name of Assignee:	KNORR-BREMSE Systeme fuer Nut	zfahrzeuge GmbH	
Address of Assignee:	Moosacher Str. 80, 80809 Muenchen,	GERMANY	
and to the above-identif continuations thereof, as such application or for s enjoyed by said ASSIGI	ned invention and United States patent ap and in and to any and all Letters Patent of aid invention, including any and all reiss NEE, its successors or assigns to the full be granted as fully and entirely as would	Inited States, its territories and possessions in oplication, including any and all divisions or the United States which may issue on any sues or extensions thereof, to be held and end of the term or terms for which any and all d have been held and enjoyed by me had this	
•	equest the Director of the U.S. Patent and SSIGNEE, its successors or assigns in ac	d Trademark Office to issue any and all such ecordance herewith.	
	that I have the full and unencumbered rignave not executed and will not execute as	ght to sell and assign the interests herein sold my document or instrument in conflict	
or assigns all information and deliver any papers, a acts deemed necessary of perfect title to said investall Letters Patent which ASSIGNEE, its successory	on known to me relating to said invention make all rightful oaths, testify in any lega or desirable by said ASSIGNEE, its succe ation, to said application including divisi may be granted therefor or thereon, inclu	EE, its successors, legal representatives or	
	DECLARATIO	<u>N</u>	
As a below named inver	ntor, I hereby declare that:		
The above-identified app	plication was made or authorized to be m	nade by me.	
I believe that I am the or	riginal inventor or an original joint inven	ntor of a claimed invention in the application.	
	nat any willful false statement made in the nment of not more than five (5) years, or	nis declaration is punishable under 18 U.S.C. both.	
	Las Pecli	2904.18 DATE	

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ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. § 1.63 (For Use with Signed Application Data Sheet)

Title of Invention:	Disc Brake for a Commercial Vehic	le and Brake Pad Set
the application i	eclaration are directed to (check one): dentified above by the attorney docker al Application Number pplication No. 15/844,068, filed Dec	, filed
	ASSIGNMI	ENT
		ncy of which are hereby acknowledged, as a presents hereby sell and assign, unto:
Name of Assignee:	KNORR-BREMSE Systeme fuer	Nutzfahrzeuge GmbH
Address of Assignee:	Moosacher Str. 80, 80809 Muench	en, GERMANY
and to the above-identic continuations thereof, a such application or for enjoyed by said ASSIG	fied invention and United States pater and in and to any and all Letters Pater said invention, including any and all a NEE, its successors or assigns to the by be granted as fully and entirely as w	ne United States, its territories and possessions in int application, including any and all divisions or it of the United States which may issue on any reissues or extensions thereof, to be held and full end of the term or terms for which any and all rould have been held and enjoyed by me had this
	request the Director of the U.S. Paten SSIGNEE, its successors or assigns i	t and Trademark Office to issue any and all such n accordance herewith.
		d right to sell and assign the interests herein sold te any document or instrument in conflict
or assigns all informatic and deliver any papers, acts deemed necessary 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 or desirable by said ASSIGNEE, its soution, to said application including diamay be granted therefor or thereon,	ASSIGNEE, its successors, legal representatives attion or patent application and that I will execute legal proceedings and perform all other lawful successors, legal representatives or assigns to ivisions and continuations thereof and to any and including reissues or extensions, in said GNEE, its successors, legal representatives or the United States for said invention.
	DECLARAT	<u>TON</u>
As a below named inve	ntor, I hereby declare that:	
The above-identified ar	oplication was made or authorized to	be made by me.
I believe that I am the o	original inventor or an original joint it	eventor of a claimed invention in the application.
	hat any willful false statement made in the hard made in the five (5) years	in this declaration is punishable under 18 U.S.C. s, or both.
	SCHOEFBERGER	



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

(For Use with Signed Application Data Sheet)

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Title of Invention:	Disc Brake for a Commercial Ve	ehicle and Brake Pad Set
the application PCT Internation	eclaration are directed to (check or identified above by the attorney donal Application Number pplication No. 15/844,068, filed	ocket no. and title of invention, filed
	ASSIGN	<u>MENT</u>
		ficiency of which are hereby acknowledged, as a hese presents hereby sell and assign, unto:
Name of Assignee:	KNORR-BREMSE Systeme fu	uer Nutzfahrzeuge GmbH
Address of Assignee:	Moosacher Str. 80, 80809 Mue	nchen, GERMANY
and to the above-identi continuations thereof, such application or for enjoyed by said ASSIC	ified invention and United States pand in and to any and all Letters Pasaid invention, including any and INEE, its successors or assigns to y be granted as fully and entirely a	or the United States, its territories and possessions in eatent application, including any and all divisions or atent of the United States which may issue on any all reissues or extensions thereof, to be held and the full end of the term or terms for which any and all as would have been held and enjoyed by me had this
	request the Director of the U.S. Pa ASSIGNEE, its successors or assign	atent and Trademark Office to issue any and all such us in accordance herewith.
		pered right to sell and assign the interests herein sold accute 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 succes	ion known to me relating to said in , make all rightful oaths, testify in or desirable by said ASSIGNEE, i ention, to said application includin h may be granted therefor or there sors or assigns, or to assist said AS	aid ASSIGNEE, its successors, legal representatives exention or patent application and that I will execute any legal proceedings and perform all other lawful its successors, legal representatives or assigns to ag divisions and continuations thereof and to any and on, including reissues or extensions, in said SSIGNEE, its successors, legal representatives or tof the United States for said invention.
	DECLAR	ATION
	entor, I hereby declare that:	
The above-identified a	pplication was made or authorized	to be made by me.
I believe that I am the	original inventor or an original joir	nt inventor of a claimed invention in the application.
	that any willful false statement ma conment of not more than five (5) ye	de in this declaration is punishable under 18 U.S.C. ears, or both.
Signature: Inventor: Philip	p ADAMCZYK	

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

(For Use with Signed Application Data Sheet)

Title of Invention:	Disc Brake for a Commercial Vehicle and	nd Brake Pad Set
☐ the application is ☐ PCT Internation	claration are directed to (check one): dentified above by the attorney docket no al Application Number oplication No. 15/844,068, filed Decemb	, filed
	ASSIGNMENT	<u>r</u>
-	consideration, the receipt and sufficiency have sold and assigned, and by these pre	
Name of Assignee:	KNORR-BREMSE Systeme fuer Nut	zfahrzeuge GmbH
Address of Assignee:	Moosacher Str. 80, 80809 Muenchen,	GERMANY
and to the above-identificontinuations thereof, a such application or for senjoyed by said ASSIG.	ied invention and United States patent ap and 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 polication, including any and all divisions or the United States which may issue on any sues or extensions thereof, to be held and end of the term or terms for which any and all I have been held and enjoyed by me had this
	equest the Director of the U.S. Patent and SSIGNEE, its successors or assigns in ac-	d 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 ar	tht to sell and assign the interests herein sold my document or instrument in conflict
or assigns all informatic and deliver any papers, acts deemed necessary of perfect title to said inver- all Letters Patent which ASSIGNEE, its success	on known to me relating to said invention make all rightful oaths, testify in any legal or desirable by said ASSIGNEE, its sucception, to said application including divisionary be granted therefor or thereon, including	ons and continuations thereof and to any and iding reissues or extensions, in said E, its successors, legal representatives or
	<u>DECLARATIO</u>	<u>N</u>
As a below named inver	ntor, I hereby declare that:	
The above-identified ap	plication was made or authorized to be m	nade by me.
I believe that I am the or	riginal inventor or an original joint inven	tor of a claimed invention in the application.
1001 by fine or imprisor	ment of not more than five (5) years, or	is declaration is punishable under 18 U.S.C. both.
	A Fed Cavaus	

Title of Invention:

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

(For Use with Signed Application Data Sheet)

Disc Brake for a Commercial Vehicle and Brake Pad Set

	2130 Brain for a Committee	ar ventere une mane i accese
This a	ssignment and declaration are directed to (che	ck one):
	the application identified above by the attorn	
	PCT International Application Number	, filed
	United States Application No. 15/844,068, 1	

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 Muenchen, 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.

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: $\frac{10 - 10 - 1}{\text{Martin PLEINTINGER}}$ $\frac{07.07.99}{\text{DATE}}$

Title of Invention:

U.S. Rights

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

(For Use with Signed Application Data Sheet)

Disc Brake for a Commercial Vehicle and Brake Pad Set

This a	ssignment and declaration are directed to (ch	eck one):
	the application identified above by the attorn	
	PCT International Application Number	, filed
\boxtimes	United States Application No. 15/844,068,	filed December 15, 2017

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 Muenchen, 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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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.

DECLARATION

As a below named inventor, I hereby declare that:

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

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Signature: Markus MOLNAR DATE

Title of Invention:

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

(For Use with Signed Application Data Sheet)

Disc Brake for a Commercial Vehicle and Brake Pad Set

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Name of Assignce: KNORR-BREMSE Systeme fuer Nutzfahrzeuge GmbH

Address of Assignee: Moosacher Str. 80, 80809 Muenchen, 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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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.

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.

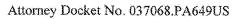
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Signature:

Inventor:

Franz GASSLBÁUEŘ

DATE



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

(For Use with Signed Application Data Sheet)

Title of Invention:	Disc Brake for a Commercial Vehicle	e and Brake Pad Set
☐ the application is ☐ PCT Internation	claration are directed to (check one): dentified above by the attorney docked al Application Number eplication No. 15/844,068, filed Dece	, filed
	ASSIGNME	NT
		ncy of which are hereby acknowledged, as a presents hereby sell and assign, unto:
Name of Assignee:	KNORR-BREMSE Systeme fuer N	vutzfahrzeuge GmbH
Address of Assignee:	Moosacher Str. 80, 80809 Muench	en, GERMANY
and to the above-identificontinuations thereof, as such application or for senjoyed by said ASSIGI	ted invention and United States patent and in and to any and all Letters Patent aid invention, including any and all ro NEE, its successors or assigns to the f be granted as fully and entirely as we	e United States, its territories and possessions in t application, including any and all divisions or of the United States which may issue on any eissues or extensions thereof, to be held and full end of the term or terms for which any and all build have been held and enjoyed by me had this
	equest the Director of the U.S. Patent 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 e any document or instrument in conflict
or assigns all information and deliver any papers, acts deemed necessary operfect title to said inversall Letters Patent which ASSIGNEE, its successions.	n known to me relating to said invent make all rightful oaths, testify in any r desirable by said ASSIGNEE, its su tion, to said application including div may be granted therefor or thereon, in	ASSIGNEE, its successors, legal representatives ion or patent application and that I will execute legal proceedings and perform all other lawful accessors, legal representatives or assigns to visions and continuations thereof and to any and acluding reissues or extensions, in said ENEE, its successors, legal representatives or the United States for said invention.
	DECLARAT	<u>10N</u>
As a below named inver	tor, I hereby declare that:	
The above-identified app	olication was made or authorized to be	e made by me.
I believe that I am the or	iginal inventor or an original joint inv	ventor of a claimed invention in the application.
	at any willful false statement made in ment of not more than five (5) years,	this declaration is punishable under 18 U.S.C. or both.
Signature: Martin	TROPP	7. 8. 18 DATE

PATENT REEL: 045900 FRAME: 0787

RECORDED: 05/25/2018