

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Heinz VOLBEL</td> <td>05/11/2012</td> </tr> <tr> <td>Steffen KRASSELT</td> <td>08/01/2012</td> </tr> <tr> <td>Thomas GARTEN</td> <td>05/11/2012</td> </tr> </tbody> </table>		Name	Execution Date	Heinz VOLBEL	05/11/2012	Steffen KRASSELT	08/01/2012	Thomas GARTEN	05/11/2012		
Name	Execution Date										
Heinz VOLBEL	05/11/2012										
Steffen KRASSELT	08/01/2012										
Thomas GARTEN	05/11/2012										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>KNORR-BREMSE SYSTEME FUR SCHIENENFAHRZEUGE GMBH</td> </tr> <tr> <td>Street Address:</td> <td>Moosacher Strasse 80</td> </tr> <tr> <td>City:</td> <td>Munchen</td> </tr> <tr> <td>State/Country:</td> <td>GERMANY</td> </tr> <tr> <td>Postal Code:</td> <td>80809</td> </tr> </table>		Name:	KNORR-BREMSE SYSTEME FUR SCHIENENFAHRZEUGE GMBH	Street Address:	Moosacher Strasse 80	City:	Munchen	State/Country:	GERMANY	Postal Code:	80809
Name:	KNORR-BREMSE SYSTEME FUR SCHIENENFAHRZEUGE GMBH										
Street Address:	Moosacher Strasse 80										
City:	Munchen										
State/Country:	GERMANY										
Postal Code:	80809										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13510371</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13510371						
Property Type	Number										
Application Number:	13510371										
CORRESPONDENCE DATA											
<p>Fax Number: 2022891330 Phone: 202-289-1313 Email: cunderwood@btlaw.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: BARNES & THORNBURG LLP Address Line 1: 1717 Pennsylvania Ave. NW Address Line 2: SUITE 500 Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20006-4623</p>											
ATTORNEY DOCKET NUMBER:	566/49712										
NAME OF SUBMITTER:	Christine H. McCarthy										
<p>Total Attachments: 4 source=49712assignment#page1.tif source=49712assignment#page2.tif source=49712assignment#page3.tif source=49712assignment#page4.tif</p>											

CH \$40.00 13510371

**PATENT ASSIGNMENT
WORLD WIDE PATENT RIGHTS**

For good and valuable consideration, the sufficiency and receipt of which are hereby acknowledged, as a below named inventor, I hereby sell and assign to **KNORR-BREMSE SYSTEME FÜR SCHIENENFAHRZEUGE GMBH**, of Moosacher Strasse 80, 80809 München, GERMANY (hereinafter collectively referred to as "ASSIGNEES"), their successors and assigns or other legal representatives all my rights, title and interest, in and for the United States of America and all foreign countries, in and to the invention entitled:

MULTI-STAGE SWITCHABLE PILOT-CONTROLLED VALVE ARRANGEMENT

the specification of which was filed as International Application No. **PCT/EP2010/067544** on **16 November 2010**, and was invented by me and described in the application for United States Letters Patent therefor, and all United States Letters Patent which may be granted therefor, and all divisions, continuations, and extensions thereof, as well as all foreign counterpart applications, the said interest being the entire ownership of the said United States Letters Patent when granted, to be held and enjoyed by said **ASSIGNEES**, their successors, assigns or other legal representatives, to the full end of the term for which said United States Letters Patent and foreign counterpart patent rights may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or any foreign counterpart applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said **ASSIGNEES**;

And I do hereby authorize and request the United States Commissioner for Patents to issue said United States Letters Patent to said **ASSIGNEES**.

NOTE: The undersigned hereby authorize(s) Barnes & Thornburg LLP to insert hereon any further identification necessary or desirable for recordation of this document.

FIRST INVENTOR:	Heinz VÖLBEL
Citizenship:	German
Post Office Address/	Lerchenauerstr. 3
Residence:	80809 München
	GERMANY

11.05.2012
(Date)

Heinz Völbels
(Signature)

SECOND INVENTOR:

Citizenship:
Post Office Address/
Residence:

Steffen KRASSELT
German
Freischützstr. 100
81927 München
GERMANY

(Date)

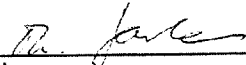
(Signature)

THIRD INVENTOR:

Citizenship:
Post Office Address/
Residence:

Thomas GARTEN
German
Stuckstr. 4
81677 München
GERMANY

11.05.2012
(Date)


(Signature)

**PATENT ASSIGNMENT
WORLD WIDE PATENT RIGHTS**

For good and valuable consideration, the sufficiency and receipt of which are hereby acknowledged, as a below named inventor, I hereby sell and assign to **KNORR-BREMSE SYSTEME FÜR SCHIENENFAHRZEUGE GMBH**, of **Moosacher Strasse 80, 80809 München, GERMANY** (hereinafter collectively referred to as "ASSIGNEES"), their successors and assigns or other legal representatives all my rights, title and interest, in and for the United States of America and all foreign countries, in and to the invention entitled:

MULTI-STAGE SWITCHABLE PILOT-CONTROLLED VALVE ARRANGEMENT

the specification of which was filed as International Application No. PCT/EP2010/067544 on 16 November 2010, and was invented by me and described in the application for United States Letters Patent therefor, and all United States Letters Patent which may be granted therefor, and all divisions, continuations, and extensions thereof, as well as all foreign counterpart applications, the said interest being the entire ownership of the said United States Letters Patent when granted, to be held and enjoyed by said ASSIGNEES, their successors, assigns or other legal representatives, to the full end of the term for which said United States Letters Patent and foreign counterpart patent rights may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or any foreign counterpart applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said ASSIGNEES;

And I do hereby authorize and request the United States Commissioner for Patents to issue said United States Letters Patent to said ASSIGNEES.

NOTE: The undersigned hereby authorize(s) Barnes & Thornburg LLP to insert hereon any further identification necessary or desirable for recordation of this document.

FIRST INVENTOR:	Heinz VÖLBEL
Citizenship:	German
Post Office Address/ Residence:	Lerchenauerstr. 3 80809 München GERMANY

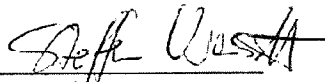
(Date)

(Signature)

SECOND INVENTOR:
Citizenship:
Post Office Address/
Residence:

Steffen KRASSELT
German
Freischützstr. 100
81927 München
GERMANY

01.08.2012
(Date)


(Signature)

THIRD INVENTOR:
Citizenship:
Post Office Address/
Residence:

Thomas GARTEN
German
Stuckstr. 4
81677 München
GERMANY

(Date)

(Signature)