

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ARNDT-UDO ROLLE	09/29/2016
ANDRÉ ROESGEN	09/25/2016
CHRISTIAN THALMANN	08/12/2016
FRANK PFLUEGER	09/29/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MANN+HUMMEL GMBH
<b>Street Address:</b>	SCHWIEBERDINGER STRASSE 126
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<b>Postal Code:</b>	71636
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15218058
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>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.</i>	
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<b>ATTORNEY DOCKET NUMBER:</b>	5069/WO-US
<b>NAME OF SUBMITTER:</b>	JAMES HASSELBECK
<b>SIGNATURE:</b>	/James Hasselbeck/
<b>DATE SIGNED:</b>	11/15/2017
<b>Total Attachments: 6</b>	
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15/218058

WORLDWIDE ASSIGNMENT

**WHEREAS, I/WE, (hereinafter referred to as the "ASSIGNOR(S)"):**

**Arndt-Udo Rolle, Markelstr. 24, 70193 Stuttgart  
André Roesgen, Im Wiesengrund 8, 73630 Remshalden  
Christian Thalmann, Kaemmerer Str. 37, 67346 Speyer  
Frank Pflueger, Jahnstr. 4/1, 74343 Sachsenheim**

has/have invented certain new and useful improvements in an invention entitled **Replaceable Filter of a Filter Device, and Filter Device** for which an application for United States Letters Patent will be filed; and

WHEREAS, MANN+HUMMEL GMBH, a corporation organized under the laws of Germany, having a place of business at Hindenburgstr. 45, 71638 Ludwigsburg/GERMANY, hereinafter referred to as the "ASSIGNEE", is desirous of acquiring the full and exclusive right, title and interest in and to said application inclusive of any and all priority rights derived therefrom and the inventions therein disclosed, and in and to all Letters Patent, both United States and foreign, to be granted for said inventions;

NOW, THEREFORE, for a valuable consideration, the receipt whereof is hereby acknowledged, I/WE, ASSIGNOR(S) does/do hereby confirm sale, assignment, transfer, and set over, and hereby sell, assign, transfer, and set over unto the ASSIGNEE, its successors and assigns, the full and exclusive right, title and interest in and to the aforesaid application for United States Letters Patent inclusive of any and all priority rights derived therefrom, and the invention therein disclosed, and in and to all Letters Patent and issues thereof which may be granted upon said application and in and to all Letters Patent which may be issued upon any substitutes, divisions, or continuations of said application, and in and to any and all Letters Patent which may be granted for said inventions in any foreign country or countries; the same to be held and enjoyed by the ASSIGNEE for its own use and behoof, and for the use and behoof of its successors and assigns, to the full end of the term or terms for which said Letters Patent and reissues thereof may be granted as fully and entirely as the same would have been held and enjoyed by them had this assignment and sale not been made;

AND I/WE, ASSIGNOR(S) hereby agrees/agree to execute, upon request, any and all further papers which may be necessary or desirable to enable the ASSIGNEE, its successors and assigns, to file and prosecute said application, and any and all substitutes, divisions, or continuations thereof, and any and all reissues of the Letters Patent granted upon said application, or upon any substitutes, divisions, or continuations thereof, and any and all applications for foreign Letters Patent on said invention; and ASSIGNOR(S) further agrees/agree to execute any and all further papers which may be necessary or desirable to vest or perfect the title of ASSIGNEE, its successors and assigns, in and to said application and the inventions

therein disclosed, and in and to any and all Letters Patent and reissues thereof, both United States and foreign, which may be granted upon said application, and any substitutes, divisions, or continuations thereof, and upon any foreign applications.

AND I/WE, ASSIGNOR(S) agree(s) to perform all affirmative acts which may be necessary to obtain a grant of (a) valid United States of America patent(s) or a grant of (a) valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

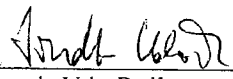
AND I/WE, ASSIGNOR(S) hereby authorizes/authorize and requests/request The Commissioner of Patents to issue each and every Letters Patent to be granted upon the aforesaid application for United States Letters Patent, and upon any and all substitutes, divisions, and continuations of said application, and each and every reissue of said Letters Patent, to the ASSIGNEE, its successors and assigns, as the assignee of the entire right, title and interest therein, in accordance with this assignment.

The undersigned hereby grant(s) the assignee MANN+HUMMEL GMBH the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

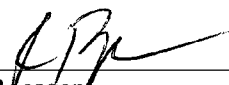
IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

**Worldwide Assignment for Patent Application 15/218058 (cont'd.) 5069/US**

  
\_\_\_\_\_  
Arndt-Udo Rolle  
Markelstr. 24  
70193 Stuttgart  
Germany

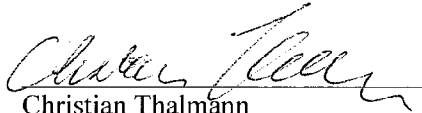
Date: 09/29/2016

**Worldwide Assignment for Patent Application 15/218058 (cont'd.) 5069/US**

  
\_\_\_\_\_  
André Roesgen  
Im Wiesengrund 8  
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Germany

Date: 25.09.16

**Worldwide Assignment for Patent Application 15/218058 (cont'd.) 5069/US**



Christian Thalmann  
Kaemmerer Str. 37  
67346 Speyer  
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Date: August 12 / 2016

Worldwide Assignment for Patent Application 15/218058

5069/US



Frank Pflueger  
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Date: 29.09.2016