

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT4689418

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MARC OPLETAL	12/19/2016
GUNTHER KRAFT	10/26/2016
ANDREAS WILDERMUTH	01/04/2017
STEFFEN MEINHOLD	10/25/2016
MARKUS BEYLICH	10/25/2016
FRANK THOMANN	10/29/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MANN+HUMMEL GMBH
<b>Street Address:</b>	SCHWIEBERDINGER STRASSE 126
<b>City:</b>	LUDWIGSBURG
<b>State/Country:</b>	GERMANY
<b>Postal Code:</b>	71636
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15278583
<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>	
<b>Email:</b>	patentmanagement@mann-hummel.com
<b>Correspondent Name:</b>	MANN+HUMMEL GMBH DEPARTMENT LC-IP
<b>Address Line 1:</b>	SCHWIEBERDINGER STRASSE 126
<b>Address Line 4:</b>	LUDWIGSBURG, GERMANY 71636
<b>ATTORNEY DOCKET NUMBER:</b>	5026/US
<b>NAME OF SUBMITTER:</b>	JAMES HASSELBECK
<b>SIGNATURE:</b>	/James Hasselbeck/
<b>DATE SIGNED:</b>	11/15/2017
<b>Total Attachments: 8</b>	
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15/278583

**WORLDWIDE ASSIGNMENT**

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

**Marc Opletal, Am Pflaster 10, 71691 Freiberg  
Gunther Kraft, Flattichstr. 52/5, 71642 Ludwigsburg  
Andreas Wildermuth, Gothaweg 3, 71672 Marbach  
Steffen Meinhold, Lohwiesenstr. 11/3, 78727 Oberndorf  
Markus Beylich, Im Obstgarten 20, 71636 Ludwigsburg  
Frank Thomann, Marc-Aurel-Weg 14, 69469 Weinheim**

has/have invented certain new and useful improvements in an invention entitled **Filter Element with Central Element for a Filter System** 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:

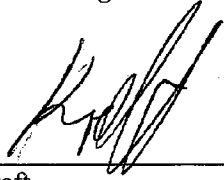


Marc Opletal  
Am Pflaster 10  
71691 Freiberg  
Germany

Date: 19.12.16

Worldwide Assignment for Patent Application 15/278583 (cont'd.)

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Date: 29.10.2016

\_\_\_\_\_  
Gunther Kraft  
Flattichstr. 52/5  
71642 Ludwigsburg  
Germany

Andreas Wildermuth

Andreas Wildermuth  
Gothaweg 3  
71672 Marbach  
Germany

Date: 04.01.2017

Worldwide Assignment for Patent Application 15/278583 (cont'd.)

5026/US



Steffen Meinhold  
Lohwiesenstr. 11/3  
78727 Oberndorf  
Germany

Date: 25 10 2016





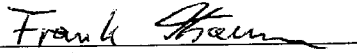
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Markus Beylich  
Im Obstgarten 20  
71636 Ludwigsburg  
Germany

Date: 25<sup>th</sup> October 2016

Worldwide Assignment for Patent Application 15/278583

5026/US



Frank Thomann  
Marc-Aurel-Weg 14  
69469 Weinheim  
Germany

Date: 29.10.2016