

**PATENT ASSIGNMENT**

Electronic Version v1.1  
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SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
<b>CONVEYING PARTY DATA</b>															
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Andreas FRANZ</td> <td>06/01/2011</td> </tr> <tr> <td>Jochen LINHART</td> <td>07/06/2011</td> </tr> <tr> <td>Dr Holger FINDEISEN</td> <td>06/06/2011</td> </tr> <tr> <td>Kathrin FISCHER</td> <td>06/29/2011</td> </tr> <tr> <td>Sabine OTTERBACH</td> <td>06/14/2011</td> </tr> <tr> <td>Kathrin LICHTENWALTER</td> <td>06/14/2011</td> </tr> </tbody> </table>		Name	Execution Date	Andreas FRANZ	06/01/2011	Jochen LINHART	07/06/2011	Dr Holger FINDEISEN	06/06/2011	Kathrin FISCHER	06/29/2011	Sabine OTTERBACH	06/14/2011	Kathrin LICHTENWALTER	06/14/2011
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Sabine OTTERBACH	06/14/2011														
Kathrin LICHTENWALTER	06/14/2011														
<b>RECEIVING PARTY DATA</b>															
Name:	MANN+HUMMEL GMBH														
Street Address:	Hindenburgstr. 45														
Internal Address:	Department VR-P Plant 5.4														
City:	Ludwigsburg														
State/Country:	GERMANY														
Postal Code:	71638														
<b>PROPERTY NUMBERS Total: 1</b>															
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13204313</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13204313										
Property Type	Number														
Application Number:	13204313														
<b>CORRESPONDENCE DATA</b>															
Fax Number:	(248)857-8501														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
Phone:	497141984316														
Email:	patentmanagement@mann-hummel.com														
Correspondent Name:	Mann+Hummel GMBH														
Address Line 1:	Hindenburgstr. 45														
Address Line 2:	Department VR-P														
Address Line 4:	Ludwigsburg, FEDERAL REPUBLIC GERMANY 71638														
ATTORNEY DOCKET NUMBER:	3412/US														

CH \$40.00 13204313

**501618517**

**PATENT**  
**REEL: 026710 FRAME: 0279**

NAME OF SUBMITTER:

James Hasselbeck

**Total Attachments: 18**

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source=Otterbach#page3.tif

WORLDWIDE ASSIGNMENT

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

**Jochen Linhart, Kurt-Vollmer-Ring 23, 71409 Schwaikheim, Germany**  
**Dr. Holger Findeisen, Veilchenweg 1, 71672 Marbach, Germany**  
**Andreas Franz, Missouristr. 5, 71638 Ludwigsburg, Germany**  
**Kathrin Fischer, Hauptstr. 52, 89358 Kammeltal, Germany**  
**Kathrin Lichtenwalter, Alte Steige 12, 70839 Gerlingen, Germany**  
**Sabine Otterbach, Heilbronner Str. 86, 71732 Tamm, Germany**

has/have invented certain new and useful improvements in an invention entitled **METHOD FOR PRODUCING A CERAMIC FILTER ELEMENT AND FILTER ELEMENT** for which an application for United States Letters Patent will be filed; and

WHEREAS, MANN+HUMMEL GMBH, a corporation organized under the laws of the Federal Republic of Germany, having a place of business at Hindenburgstr. 45, 71638 Ludwigsburg/GERMANY, hereinafter referred to as "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

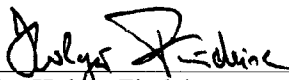
therein disclosed, and in and to any and all Letters Patent and reissues thereof, both United States and foreign, which may be granted upon said application, and any substitutes, divisions, or continuations thereof, and upon any foreign applications.

AND I/WE, ASSIGNOR(S) 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.

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

\_\_\_\_\_  
Jochen Linhart  
Kurt-Vollmer-Ring 23  
71409 Schwaikheim  
Germany

Date: \_\_\_\_\_

  
\_\_\_\_\_  
Dr. Holger Findeisen  
Veilchenweg 1  
71672 Marbach  
Germany

Date: 06.06.2011

\_\_\_\_\_  
Andreas Franz  
Missouristr. 5  
71638 Ludwigsburg  
Germany

Date: \_\_\_\_\_

\_\_\_\_\_  
Kathrin Fischer  
Hauptstr. 52  
89358 Kammeltal  
Germany

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Alte Steige 12  
70839 Gerlingen  
Germany

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Veilchenweg 1  
71672 Marbach  
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Germany

Date: \_\_\_\_\_

  
\_\_\_\_\_  
Kathrin Fischer  
Hauptstr. 52  
89358 Kammeltal  
Germany

Date: 29/6/2011

---

Kathrin Lichtenwalter  
Alte Steige 12  
70839 Gerlingen  
Germany

Date: \_\_\_\_\_

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Sabine Otterbach  
Heilbronner Str. 86  
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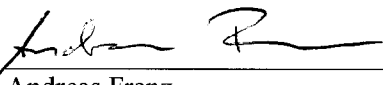
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Kathrin Lichtenwalter  
Alte Steige 12  
70839 Gerlingen  
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Date: 14. Juni 2011

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Sabine Otterbach  
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71732 Tamm  
Germany

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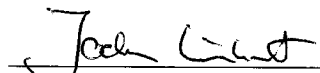
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WHEREAS, MANN+HUMMEL GMBH, a corporation organized under the laws of the Federal Republic of Germany, having a place of business at Hindenburgstr. 45, 71638 Ludwigsburg/GERMANY, hereinafter referred to as "assignee, is desirous of acquiring the full 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) 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.

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

\_\_\_\_\_  
Jochen Linhart  
Kurt-Vollmer-Ring 23  
71409 Schwaikheim  
Germany

Date: \_\_\_\_\_

\_\_\_\_\_  
Dr. Holger Findcisen  
Veilchenweg 1  
71672 Marbach  
Germany

Date: \_\_\_\_\_

\_\_\_\_\_  
Andreas Franz  
Missouristr. 5  
71638 Ludwigsburg  
Germany

Date: \_\_\_\_\_

\_\_\_\_\_  
Kathrin Fischer  
Hauptstr. 52  
89358 Kammeltal  
Germany

Date: \_\_\_\_\_

Kathrin Lichtenwalter  
Alte Steige 12  
70839 Gerlingen  
Germany

Date: \_\_\_\_\_

Sabine Otterbach

Sabine Otterbach  
Heilbronner Str. 86  
71732 Tamm  
Germany

Date: 14.6.2011

Hillerstraße 15  
74321 Bietigheim-Bissingen  
Germany

Sabine Otterbach  
14.6.2011