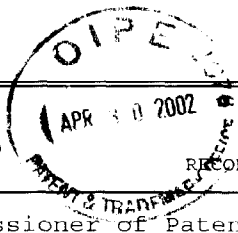


Form PTO-1595  
(Rev. 6-93)  
OMB No. 0651-0011 (exp. 4/94)



05-06-2002

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is attached

To the Honorable Commissioner of Patents and Trademarks  
original documents or copy thereof.

1. Name of conveying party(ies):

- 1) Heinz ADDRESS
- 2) Helmut LUKA
- 3) Bertram UEBELHOER
- 4) Gerhard MAYER
- 5) Werner BLOSSEY

*4-30-02*

Additional name(s) of conveying party(ies) attached?

yes  no

2. Name and address of receiving party(ies)

Name: Filterwerk Mann & Hummel GmbH

Address: Postfach 409  
D-71631 Ludwigsburg, Germany

Additional name(s) & address(es) attached?

yes  no

3. Nature of Conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other:

Execution Date: 1) February 27, 2002  
2) April 4, 2002  
3) February 26, 2002  
4) February 27, 2002  
5) February 27, 2002

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: ==

A. Patent Application No.(s)

10/032,504

B. Patent No(s).

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Crowell & Moring LLP  
Intellectual Property Group  
P.O. Box 14300  
Washington, D.C. 20044-4300

6. Total number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41): \$ 40.00  
 Enclosed. Please charge any underpayment in connection with this Assignment to Deposit Account No. 05-1323

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9. Statement and Signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Name: J. D. Evans Reg. No. 26,269

April 30, 2002  
Date

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### ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto:

**Filterwerk Mann & Hummel GmbH**  
**Postfach 409**  
**D-71631 Ludwigsburg, Germany**

(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to his invention relating to: **FILTER CARTRIDGE**

as set forth in his United States Patent Application (check one):

- executed concurrently herewith,
- was filed as PCT international application Number \_ on \_
- Serial No. 10/032,504, filed January 2, 2002,

in and to said 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, legal representatives and 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 the undersigned had this Assignment not been made;

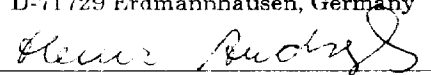
Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters patent to said ASSIGNEE, its successors or assigns in accordance herewith;

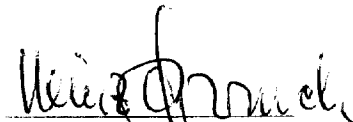
Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he 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;

Each of the undersigned hereby grants the firm of **CROWELL & MORING, L.L.P.**, or any partner thereof, the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

**INVENTOR:**  
 Post Office Address/Residence:  
  
27.02.02  
 (date)

Heinz ANDRESS  
 Hunzelweg 1  
 D-71729 Erdmannhausen, Germany  
  
  
 (signature of 1st inventor)

  
 (signature of witness)

**INVENTOR:**  
 Post Office Address/Residence:  
  
  
 (date)

Helmut LUKA  
 Eisenachweg 13  
 D-71334 Marbach, Germany  
  
  
 (signature of 2nd inventor)

(signature of witness)

# ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto:

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D-71631 Ludwigsburg, Germany**

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as set forth in his United States Patent Application (check one):

- executed concurrently herewith,
- was filed as PCT international application Number \_ on \_
- executed concurrently herewith,
- was filed as PCT international application Number \_ on \_
- Serial No. 10/032,504, filed January 2, 2002,

in and to said 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, legal representatives and 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 the undersigned had this Assignment not been made;

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**INVENTOR:** Heinz ANDRESS  
Post Office Address/Residence: Hunzelweg 1  
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\_\_\_\_\_  
(date)

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(signature of 1st inventor)

\_\_\_\_\_  
(signature of witness)

**INVENTOR:** Helmut LUKA  
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4.4.02  
\_\_\_\_\_  
(date)

Helmut Luka  
\_\_\_\_\_  
(signature of 2nd inventor)

[Signature]  
\_\_\_\_\_  
(signature of witness)

**INVENTOR:** Bertram UEBELHOER  
 Post Office Address/Residence: Hausweinberg 45  
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\_\_\_\_\_  
 (date)

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 (signature of witness)

**INVENTOR:** Gerhard MAYER  
 Post Office Address/Residence: Amselweg 6  
 D-74385 Pleidelsheim, Germany

\_\_\_\_\_  
 (date)

\_\_\_\_\_  
 (signature of 4th inventor)

\_\_\_\_\_  
 (signature of witness)

**INVENTOR:** Werner BLOSSEY  
 Post Office Address/Residence: Rosenweg 10  
 D-71726 Benningen, Germany  
 Post Office Address/Residence: Rosenweg 10  
 D-71726 Benningen, Germany

\_\_\_\_\_  
 (date)

\_\_\_\_\_  
 (signature of 5th inventor)

\_\_\_\_\_  
 (signature of witness)

INVENTOR:  
Post Office Address/Residence:

Bertram UEBELHOER  
Hausweinberg 45  
D-71334 Waiblingen, Germany

*Bertram Uebelhoer*

(signature of 3rd inventor)

*S. Dargatz*

(signature of witness)

26.02.02

(date)

INVENTOR:  
Post Office Address/Residence:

Gerhard MAYER  
Amselweg 6  
D-74385 Pleidelsheim, Germany

(signature of 4th inventor)

(signature of witness)

(date)

INVENTOR:  
Post Office Address/Residence:

Werner BLOSSEY  
Rosenweg 10  
D-71726 Benningen, Germany  
Rosenweg 10  
D-71726 Benningen, Germany

(signature of 5th inventor)

(signature of witness)

(date)

**INVENTOR:**  
Post Office Address/Residence:

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Hausweinberg 45  
D-71334 Waiblingen, Germany

\_\_\_\_\_  
(date)

\_\_\_\_\_  
(signature of 3rd inventor)

\_\_\_\_\_  
(signature of witness)

**INVENTOR:**  
Post Office Address/Residence:

Gerhard MAYER  
Amselweg 6  
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Feb. 27, 2002  
(date)

[Signature]  
(signature of 4th inventor)

[Signature]  
(signature of witness)

**INVENTOR:**  
Post Office Address/Residence:

Werner BLOSSEY  
Rosenweg 10  
D-71726 Benningen, Germany

Feb. 27, 2002  
(date)

[Signature]  
(signature of 5th inventor)

[Signature]  
(signature of witness)