

PATENT ASSIGNMENT

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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>Stefan KRAUSE</td> <td>11/02/2012</td> </tr> <tr> <td>Ulrich MEYER-BLUMENROTH</td> <td>11/02/2012</td> </tr> </tbody> </table>		Name	Execution Date	Stefan KRAUSE	11/02/2012	Ulrich MEYER-BLUMENROTH	11/02/2012
Name	Execution Date						
Stefan KRAUSE	11/02/2012						
Ulrich MEYER-BLUMENROTH	11/02/2012						
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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>13695620</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13695620		
Property Type	Number						
Application Number:	13695620						
CORRESPONDENCE DATA							
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NAME OF SUBMITTER:	Claire Wygand						
Total Attachments: 2 source=10-013 NAD assignment#page1.tif source=10-013 NAD assignment#page2.tif							

OP \$40.00 13695620

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

**Microdyn-Nadir GmbH
Rheingaustraße 190-196
D-65203 Wiesbaden
Federal Republic of Germany**

its successors and assigns (collectively "Assignee"), the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the invention in


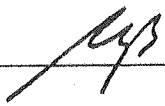


Filtration device having internal recirculation

as set forth in the United States Patent Application

- Executed concurrently herewith
- Executed on *NOVEMBER 1, 2012*
- Application No. *13/695,620*

said United States Patent Application, including all utility, design, divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be of said inventions, and to testify in any proceedings relating to said inventions, patent applications and Letters Patent.

Each of the undersigned hereby grants the firm of **ProPat, L.L.C.** 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.

NAME AND SIGNATURE OF INVENTORS		
Name	Signature (FULL NAME)	Date
Stefan KRAUSE		Nov. 2, 2012
Ulrich MEYER-BLUMENROTH		Nov. 2, 2012
NAMES AND SIGNATURES OF WITNESSES		
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Dorothee GROSSART		Nov. 2, 2012