

RECORDED

09-17-1999

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark OfficeTo the Honorable Commissioner of Patents and Trademarks: Please record the attached copy of: **101129211**

## 1. Name of conveying party(ies):

George G. Chase and Steven C. Schapel

Additional name(s) of conveying party(ies) attached? Yes  
X No

## 3. Nature of conveyance:

X Assignment — Merger  
— Security Agreement — Change of Name  
— Other

Execution Date: April 30, 1999

## 2. Name and address of receiving party(ies):

Name: The University of Akron

Internal Address:

Street Address: 302 East Buchtel Avenue

City: Akron State: OH ZIP: 44325-2102

Additional name(s) & address(es) attached? Yes  
X No

## 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:

March 15, 1999

## A. Patent Application No.(s)

09/268,113

## B. Patent No.(s)

Additional numbers attached? Yes X No

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

Name: Ray L. Weber

Internal Address: Renner, Kenner, Greive, Bobak, Taylor &amp; Weber

Street Address: 1610 First National Tower

City: Akron State: OH ZIP: 44308-1456

6. Total Number of applications and patents involved: 17. Total fee (37 CFR 3.41): .....\$ 65.00X Enclosed— Authorized to be charged to deposit account

## 8. Deposit Account Number:

18-0987

(Attach duplicate copy of this page if paying by deposit account)

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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.

Shannon V. McCue

Name of Person Signing

Signature

May 18, 1999

Date

Total number of pages including cover sheet, attachments, and document: 1

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks  
Box Assignments  
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46.06 00  
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01 FC:501  
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REEL: 010093 FRAME: 0036

### Assignment

In Consideration of the sum of Ten Dollars (\$10.00), and of other good and valuable consideration paid to the undersigned by the Assignee, **The University of Akron**, a State University organized under the laws of the State of Ohio receipt whereof is hereby acknowledged, the undersigned by these presents hereby sold, assigned, transferred and set over unto the said assignee the entire right, title and interest in and to the invention or improvement in

### CROSSFLOW FILTER CYCLONE APPARATUS

said invention being fully described and/or claimed in the application for Letters Patent of the United States of America, which was filed on March 15, 1999, and bears U.S. Serial No. 09/268,113, in and for the United States and all foreign countries, the same to be held and enjoyed by said assignee, its successors, assigns or other legal representatives, to the full ends of the terms for which all Letters Patent therefor may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

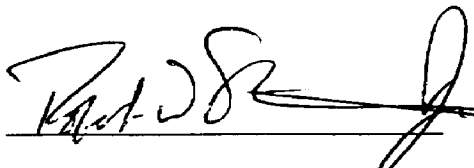
And Said Assignee is Hereby Authorized to make application for and to receive Letters Patent for said invention in any of said countries of its election.

And By This Covenant The Undersigned will execute or procure any further necessary assurance of title to said invention and Letters Patent; and at any time, upon the request and at the expense of said assignee, will execute and deliver any and all papers that may be necessary or desirable to perfect the title to said invention or any Letters Patents which may be granted therefor in said Assignee, its successors, assigns or other legal representatives, and upon the request and at the expense of said assignee, will execute any additional or divisional applications for patents for said invention, or any part or parts thereof, and for the reissue of said Letters Patents to be granted therefor, and will make all rightful oaths and do all lawful acts requisite for procuring the same or for aiding therein without further compensation, but at the expense of said assignee, its successors, assigns or other legal representatives.

And The Commissioner of Patents is Hereby Authorized and Requested to issue any and all Letters patent of the United States for said invention, to said assignee.

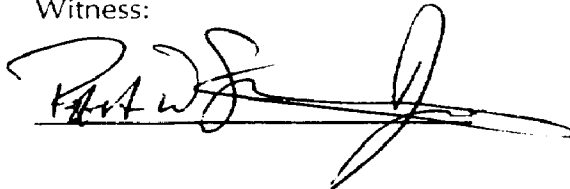
Signed and sealed this 12 day of May, 1999.

Witness:

 George G. Chase L.S.  
George G. Chase

Signed and sealed this 12 day of May, 1999.

Witness:

 Steven C. Schapel L.S.  
Steven C. Schapel