

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>Derek S. Pai</td><td>10/27/2002</td></tr><tr><td>Steven T. Kunitake</td><td>10/29/2002</td></tr><tr><td>Jorge Monteon</td><td>10/25/2002</td></tr><tr><td>Derrick Richardson</td><td>11/04/2002</td></tr></tbody></table>	Name	Execution Date	Derek S. Pai	10/27/2002	Steven T. Kunitake	10/29/2002	Jorge Monteon	10/25/2002	Derrick Richardson	11/04/2002	
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Derek S. Pai	10/27/2002										
Steven T. Kunitake	10/29/2002										
Jorge Monteon	10/25/2002										
Derrick Richardson	11/04/2002										
RECEIVING PARTY DATA											
Name:	Arcturus Engineering, Inc.										
Street Address:	400 Logue Avenue										
City:	Mountain View										
State/Country:	CALIFORNIA										
Postal Code:	94043										
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>11076272</td></tr></tbody></table>	Property Type	Number	Application Number:	11076272							
Property Type	Number										
Application Number:	11076272										
CORRESPONDENCE DATA											
Fax Number:	(415)358-8590										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	415-641-7500										
Email:	ray@lukasipgroup.com										
Correspondent Name:	Rimas T. Lukas										
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Address Line 4:	Half Moon Bay, CALIFORNIA 94019										
ATTORNEY DOCKET NUMBER:	ARC01-20036.30										
NAME OF SUBMITTER:	Rimas T. Lukas										
Total Attachments: 4											
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ASSIGNMENT JOINT

1490 Chestnut St. Apt #4
SAN FRANCISCO, CA 94112

THIS ASSIGNMENT, by Derek S. PAI, Steven T. KUNITAKE, Derrick RICHARDSON, and Jorge [↑] MONTEON (hereinafter referred to as the assignors), residing at ~~1089 Eden Bower Lane, Redwood City, California 94061~~; 153 Exeter Avenue, San Carlos, California 94070; 700 SW 110th Avenue #24-301, Pembroke, Florida 33025; and 1492 Sanborn Avenue, San Jose, California 95110 and, respectively, witnesseth:

WHEREAS, said assignors have invented certain new and useful improvements in **LOW VOLUME FILTRATION COLUMN DEVICES AND METHODS OF FILTERING THEREWITH**, set forth in an application for Letters Patent of the United States, bearing Serial No. 10/209,508 and filed on July 30, 2002; and

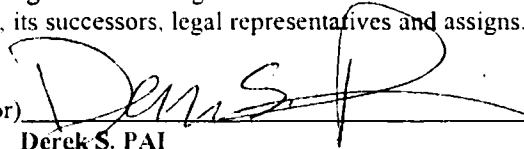
WHEREAS, Arcturus Engineering, Inc., a corporation duly organized under and pursuant to the laws of California and having its principal place of business at 400 Logue Avenue, Mountain View, California 94043 (hereinafter referred to as the assignee) is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, for good and valuable consideration, the receipt, sufficiency and adequacy of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

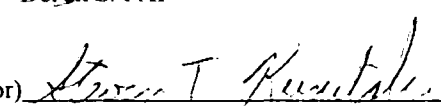
AND for the same consideration, said assignors hereby covenant and agree to and with said assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

(Assignor) 
Name: Derek S. PAI

Date: 10/27/02

(Assignor) 
Name: Steven T. KUNITAKE

Date: 10/27/02

(Assignor) _____
Name: **Derrick RICHARDSON**

Date: _____

(Assignor) _____
Name: **Jorge MONTEON**

Date: 10/25/22

ASSIGNMENT JOINT

1490 Chestnut St. Apt #
SAN FRANCISCO, CA 94111.

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 5420 SW 134th AVE
MIRAMAR, FL 33027
DAR

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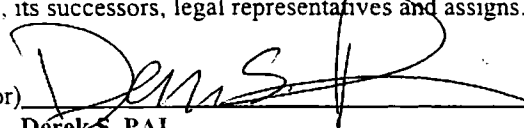
WHEREAS, Arcturus Engineering, Inc., a corporation duly organized under and pursuant to the laws of California and having its principal place of business at 400 Logue Avenue, Mountain View, California 94043 (hereinafter referred to as the assignee) is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, for good and valuable consideration, the receipt, sufficiency and adequacy of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.


AND for the same consideration, said assignors hereby covenant and agree to and with said assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

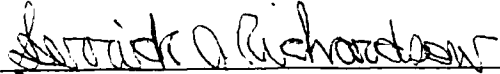
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(Assignor) 
Name: Derek S. PAI


Date: 10/27/02

(Assignor) 
Name: Steven T. KUNITAKE

Date: 10/29/02

(Assignor) 
Name: **Derrick RICHARDSON**

Date: 11/4/02

(Assignor) 
Name: **Jorge MONTEON**

Date: 10/25/02