

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| 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>James P. Landers</td><td>09/19/2007</td></tr><tr><td>Matthew R. Begley</td><td>09/19/2007</td></tr><tr><td>Jerome P. Ferrance</td><td>09/19/2007</td></tr><tr><td>Michael H. Jones</td><td>11/08/2007</td></tr><tr><td>Jennifer Monahan-Dian</td><td>11/14/2007</td></tr></tbody></table> | Name | Execution Date | James P. Landers | 09/19/2007 | Matthew R. Begley | 09/19/2007 | Jerome P. Ferrance | 09/19/2007 | Michael H. Jones | 11/08/2007 | Jennifer Monahan-Dian | 11/14/2007 | |
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| Jennifer Monahan-Dian | 11/14/2007 | | | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | | | |
| <table border="1"><tr><td>Name:</td><td>University of Virginia</td></tr><tr><td>Street Address:</td><td>One Morton Drive</td></tr><tr><td>City:</td><td>Charlottesville</td></tr><tr><td>State/Country:</td><td>VIRGINIA</td></tr><tr><td>Postal Code:</td><td>22904</td></tr></table> | Name: | University of Virginia | Street Address: | One Morton Drive | City: | Charlottesville | State/Country: | VIRGINIA | Postal Code: | 22904 | | | |
| Name: | University of Virginia | | | | | | | | | | | | |
| Street Address: | One Morton Drive | | | | | | | | | | | | |
| City: | Charlottesville | | | | | | | | | | | | |
| State/Country: | VIRGINIA | | | | | | | | | | | | |
| Postal Code: | 22904 | | | | | | | | | | | | |
| 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>11665326</td></tr></tbody></table> | Property Type | Number | Application Number: | 11665326 | | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | |
| Application Number: | 11665326 | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | |
| Fax Number: (434)924-2493 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | | | | | | | | | | | | | |
| Phone: 434-924-2175 | | | | | | | | | | | | | |
| Email: sueann@uvapf.org | | | | | | | | | | | | | |
| Correspondent Name: University of Virginia Patent Foundation | | | | | | | | | | | | | |
| Address Line 1: 250 West Main Street, Suite 300 | | | | | | | | | | | | | |
| Address Line 4: Charlottesville, VIRGINIA 22902 | | | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 01046-03 | | | | | | | | | | | | |
| NAME OF SUBMITTER: | Robert J. Decker | | | | | | | | | | | | |

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PATENT
REEL: 020132 FRAME: 0345

Total Attachments: 5

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ASSIGNMENT

WHEREAS, we, **James P. Landers, Matthew R. Begley, Jerome P. Ferrance, Michael H. Jones and Jennifer Monahan-Dian** (the "Assignors"), have made an invention entitled

“ELECTROSTATIC ACTUATION FOR MANAGEMENT OF FLOW IN MICRO TOTAL ANALYSIS SYSTEMS AND RELATED METHOD THEREOF”

described in US Patent Application Serial No. 11,665,326 filed April 13, 2007 which is a national stage of International Patent Application No. PCT/US2005/036675 filed October 13, 2005 claiming priority to U.S. Provisional Patent Application Serial No. 60/618,127 filed October 13, 2004; and any subsequent patent applications claiming priority thereto; and

WHEREAS, the **University of Virginia**, One Morton Drive, P. O. Box 400301, Charlottesville, Virginia 22904-4301 (the “Assignee”), is desirous of acquiring the entire right, title and interest in and to the aforesaid invention, including any tangible materials embodied in or encompassed by the invention and any trade secrets pertaining to the invention, and any improvements thereon, (the “Invention”) and in and to said applications for Letters Patent thereon in the United States, its territories and possessions (“United States”) and all foreign countries, including rights to claim priority, to any provisional applications, and in and to any Letters Patent of the United States or any foreign country which may be granted therefor, including any and all reissues, divisions, continuations, continuations-in-part, renewals, substitutes or extensions thereof (the “Rights”);

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and conveyed, and does hereby sell, assign, transfer and convey to Assignee, its successors and assigns, the entire right, title and interest in and to the aforesaid Invention and Rights, except that Assignee hereby grants back to the Assignors a royalty free non-transferrable license to make and use the Invention under the Rights for educational and research purposes, only. The aforesaid assignment includes the right in and to all income, royalties, damages and payments now or hereafter due or payable with respect to any Letters Patent which may be granted, and in and to all causes of action (either in law or in equity), and the right to sue, counterclaim, and recover for past, present and future infringement of the rights assigned or to be assigned under this Assignment, as fully and entirely as the same would have been held and enjoyed by Assignors if this sale and assignment had not been made;

AND Assignors hereby authorize and request the appropriate governmental officials to issue any and all such United States or foreign Letters Patent under said invention, or resulting from any of said applications thereof, to the Assignee, as the assignee of the entire right, title and interest in and to the same;

AND Assignors hereby represent, warrant and covenant that they have the full right to convey the entire interest herein assigned, that they have not executed and will not execute any instrument or assignment in conflict herewith, and that the rights assigned herein are not otherwise encumbered by any grant, license or right;

AND Assignors further covenant and agree that Assignors will at any time upon request make, execute and deliver without further compensation, any and all other instruments in writing, including further applications, papers, affidavits, power of attorney, assignments, and other documents, and do all lawful acts and things, which, in the opinion of counsel for said Assignee, its successors and assigns, may in any country be required or necessary more effectively to secure to and vest in said Assignee, its successors and assigns the entire right, title and interest in and to said Invention and Rights hereby sold, assigned, transferred and conveyed, and that Assignors will sign any applications for reissue, division, continuation, continuation-in-part, renewal, substitute or extension of said application for Letters Patent or any resulting Letters Patent;

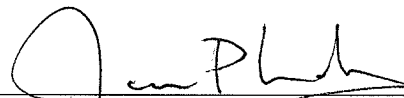
AND Assignors further covenant and agree that Assignors will at any time upon request communicate to the Assignee, its successors, assigns or other legal representatives any facts relating to the aforesaid invention known to it, and will testify as to the same in any interference, litigation, mediation, arbitration or other proceeding when requested to do so.

IN WITNESS WHEREOF, Assignors have hereunto set their hands and seals.

Signature of Inventor / Date of Execution:

Inventor's Name:

Inventor's Resident Address:



James P. Landers, ~~US~~ Canadian Citizen
633 Nettle Court
Charlottesville, VA 22903

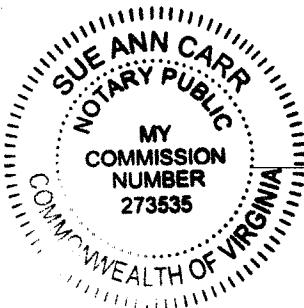
JPL
Sept 19/07


Place of Execution:

City of Charlottesville, Virginia

CITY OF CHARLOTTESVILLE)
) ss:
COMMONWEALTH OF VIRGINIA)

On this 19th day of September, 2007, before me, a Notary Public in and for the Commonwealth of Virginia, personally appeared James P. Landers, known to me (or proven by evidence of satisfactory identification) to be the person described in and who executed the foregoing instrument and acknowledged the same to be of their free act and deed for the uses and purposes therein set forth.



 [signature, please print name below]

Sue Ann Carr, Notary Public, my commission expires on 3/31/08

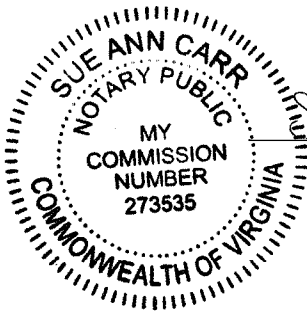
Signature of Inventor / Date of Execution: Matthew R. Begley 09/19/07
Inventor's Name: Matthew R. Begley
Inventor's Resident Address: 313 Four Seasons Drive
Charlottesville, VA 22901

Inventor's Country of Citizenship: USA

Place of Execution: City of Charlottesville, Virginia

CITY OF CHARLOTTESVILLE)
) ss:
COMMONWEALTH OF VIRGINIA)

On this 19th day of September, 2007, before me, a Notary Public in and for the Commonwealth of Virginia, personally appeared Matthew R. Begley, known to me (or proven by evidence of satisfactory identification) to be the person described in and who executed the foregoing instrument and acknowledged the same to be of their free act and deed for the uses and purposes therein set forth.



Sue Ann Carr [signature, please print name below]

Sue Ann Carr, Notary Public, my commission expires on 3/31/08

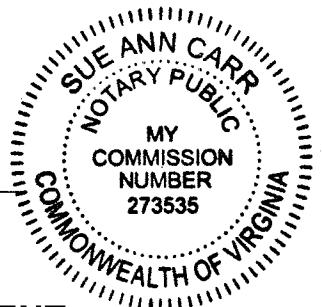
Signature of Inventor / Date of Execution: Jerome P. Ferrance 9/19/07
Inventor's Name: Jerome P. Ferrance, US Citizen
Inventor's Resident Address: 113 Lupine Lane
Charlottesville, VA 22911

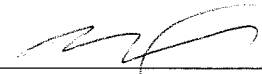
CITY OF CHARLOTTESVILLE)
) ss:
COMMONWEALTH OF VIRGINIA)

On this 19th day of September, 2007, before me, a Notary Public in and for the Commonwealth of Virginia, personally appeared Jerome P. Ferrance, known to me (or proven by evidence of satisfactory identification) to be the person described in and who executed the foregoing instrument and acknowledged the same to be of their free act and deed for the uses and purposes therein set forth.

Sue Ann Carr [signature, please print name below]

Sue Ann Carr, Notary Public, my commission expires on 3/31/08

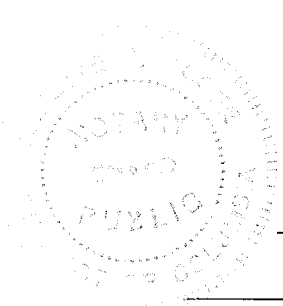


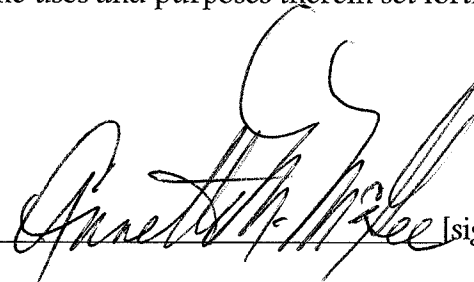
Signature of Inventor / Date of Execution:  11/8/07
Inventor's Name: Michael H. Jones, US Citizen Date
Inventor's Resident Address: 2400 Virginia Avenue NW Apt. C804
Washington, DC 20037

Place of Execution: _____

District of Columbia : SS
CITY OF _____)
COUNTY OF _____) SS:
_____)

On this 8TH day of NOVEMBER, 2007, before me, a Notary Public in and for the aforesaid jurisdiction, personally appeared Michael H. Jones, known to me (or proven by evidence of satisfactory identification) to be the person described in and who executed the foregoing instrument and acknowledged the same to be of his free act and deed for the uses and purposes therein set forth.



 [signature, please print name below]

_____, Notary Public, my commission expires on _____
Annette M. McGee
Notary Public, District of Columbia
My Commission Expires 01/01/2011

Signature of Inventor / Date of Execution:

Inventor's Name:

Inventor's Resident Address:

Jennifer Monahan-Dian

Jennifer Monahan-Dian

725 Owen Street

Lafayette, IN 47905

Inventor's Country of Citizenship:

U.S.A

Place of Execution:

COUNTY OF Tipton)
CITY OF West Lafayette) SS:
STATE OF Indiana)

On this 14th day of November, 2007, before me, a Notary Public in and for the aforesaid jurisdiction, personally appeared Jennifer Monahan-Dian, known to me (or proven by evidence of satisfactory identification) to be the person described in and who executed the foregoing instrument and acknowledged the same to be of their free act and deed for the uses and purposes therein set forth.

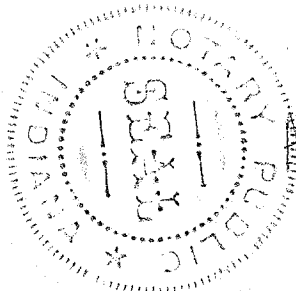
Alicia K. Findley

(signature, please print name below)

Alicia K. Findley

, Notary Public, my commission expires on

12/6/2012



PATENT

RECORDED: 11/19/2007

REEL: 020132 FRAME: 0351