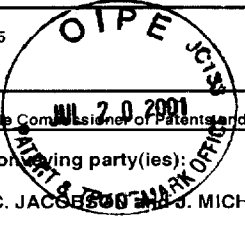


08-07-2001



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7.20.01

To the Honorable Commissioner of Patents and Trademarks:

1. Name of conveying party(ies):
STEPHEN C. JACOBSON and J. MICHAEL RAMSEY
Additional name(s) of conveying party(ies) attached? Yes No

Name of receiving party(ies):
Name: UT-BATTELLE, LLC
Internal Address: _____
Street Address: Oak Ridge National Laboratory
P.O. Box 2008
City: Oak Ridge State/Country: TENNESSEE ZIP: 37831-6498
Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
Execution Date: March 9, 2001

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) B. Patent No.(s)

09/759,590

410E

Additional Application/Patent Numbers attached? Yes No

5. Name and address of party to whom correspondence concerning the document should be mailed:
Name: VINCENT T. PACE
Address: DANN, DORFMAN, HERRELL AND SKILLMAN, P.C.
1601 Market Street, Suite 720
Philadelphia, Pennsylvania 19103-2307
Telephone: (215) 563-4100 Facsimile: (215) 563-4044

6. Total number of applications and patents involved: _____
1

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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.

VINCENT T. PACE
Name of Attorney Signing

Vincent T. Pace
Signature of Attorney

July 16, 2001
Date

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01 FC:581 40.00 CH

Docket No. 0532.1

ASSIGNMENT

WHEREAS, WE, the below-named inventors whose residence and post office are as stated below, have invented certain new and useful improvements in **A MICROFLUIDIC DEVICE AND METHOD FOR FOCUSING, SEGMENTING, AND DISPENSING OF A FLUID STREAM** described and claimed in an application for Letters Patent of the United States signed by ASSIGNOR and dated the 09th day of March, 2001, and the 09th day of March, 2001; and

WHEREAS, UT-BATTELLE, LLC, a limited liability company of the State of Tennessee, having an office at Oak Ridge National Laboratory, Post Office Box 2008, Oak Ridge, Tennessee 37831-6498, hereinafter called the ASSIGNEE, is desirous of acquiring the entire right, title and interest in the application and invention and to any Letters Patent that may be granted therefor in the United States of America and in any and all foreign countries.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we hereby assign to ASSIGNEE the entire right, title and interest in the application and the invention, to all rights of priority thereto pursuant to the International Convention for the Protection of Industrial Property, and in any Letters Patent on the invention that may be granted in the United States of America and in any and all foreign countries, including any and all Letters Patent that are divisions, reissues, continuations, substitutions or extensions of any Letters Patent or applications therefor on the invention.

We hereby authorize and request the Commissioner of the United States Patent and Trademark Office and the officials of any and all foreign countries to issue any and all of said Letters Patent, when granted, to the ASSIGNEE.

Further, we hereby agree to communicate to said ASSIGNEE or its representatives any facts known to us respecting said invention, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, to execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, and to make all rightful oaths and generally do everything possible to aid said ASSIGNEE and its representatives to obtain and enforce proper protection for said invention in the United States of America and in any and all foreign countries.

We further agree that the terms, covenants and conditions of this assignment shall inure to the benefit of ASSIGNEE, its successors, assigns, and legal representatives, and shall be binding on us, our heirs, legal representatives, and assigns.

0532.1

Full name of first inventor: STEPHEN C. JACOBSON

Signature: *Stephen C. Jacobson* Date: 03/09/01

Residence: Knoxville, Tennessee
Post Office Address: 3639 Taliluna Dr., #D-1, Knoxville, Tennessee 37919

State of Tennessee)
County of Roane)

On this 9th day of March, 2001, before me, a Notary Public in and for the County and State aforesaid, appeared STEPHEN C. JACOBSON to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

Shelley L. Stafford
Notary Public

SEAL
My Commission Expires: Sept. 12, 2004

Full name of second inventor: J. MICHAEL RAMSEY

Signature: *J. Michael Ramsey* Date: 3/9/01

Residence: Knoxville, Tennessee
Post Office Address: 733 Hampton Roads Drive, Knoxville, Tennessee 37922

State of Tennessee)
County of Roane)

On this 9th day of March, 2001, before me, a Notary Public in and for the County and State aforesaid, appeared J. MICHAEL RAMSEY to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

Shelley L. Stafford
Notary Public

SEAL
My Commission Expires: Sept. 12, 2004