

FORM PTO-1595
(Rev. 6-93)
OMB No. 0651-0011 (exp. 4/94)

03-27-2002

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office



Please 102032291 / thereof.

<p>1. Name of conveying party(ies): Thomas Wiggins; Madhushree Ghosh; Lawrence A. Bottemley; Salvatore Seminar; Zhiya Hu; Timothy Seeley and Sebastian Kossek</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____</p> <p>Execution Date: 2/22/2002; 2/19/2002; 2/22/2002; 2/19/2002; 2/18/2002; 2/18/2002; 2/20/2002</p>	<p>2. Name and address of receiving party(ies) Name: Protiveris, Inc. Internal Address: 9700 Great Seneca Highway Rockville, MD 20850</p> <p style="font-size: 2em; font-family: cursive;">3.7.02</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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4. Application number(s) or patent number(s): 10/054,760

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):
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Additional numbers attached? Yes No

<p>5. Name and address of party to whom correspondence Concerning document should be mailed:</p> <p>Name: Sonia K. Guterman, Ph.D., J.D. Address: MINTZ, LEVIN, COHN, FERRIS GLOVSKY and POPEO, P.C. One Financial Center Boston, MA 02111</p>	<p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37 CFR 3.41) \$40.00</p> <p><input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> The Commissioner is authorized to charge Deposit Account No: 50-0311, Reference No. 24494-005</p>
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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.

Sonia K. Guterman, Ph.D., Reg. No. 44,729	<i>Sonia K. Guterman</i>	March 7, 2002
Name of Person Signing	Signature	Date

Total number of pages including cover sheet, attachments, and document: 17

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

BOX ASSIGNMENT
Commissioner of Patents and Trademarks
Washington, D.C. 20231

03/27/2002 TDIAZ1 00000020 10054760
01 FC:581 40.00 DP

TRA 1640519v1

ASSIGNMENT

We, **Thomas Wiggins of Columbia, MD, Madhushree Gosh of Rockville, MD, Lawrence A. Bottomley of Lawrenceville, GA, Salvatore Seminara of Chicago, IL, Zhiyu Hu of Bethesda, MD, Timothy Seeley of Bethesda, MD and Sebastian Kossek of Phoenix, AZ**, the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, hereby assign, sell and transfer to **Protiveris, Inc.**, a Delaware corporation, with offices at **9700 Great Seneca Highway, Rockville, MD 20850** and its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE: (1) our entire right, title and interest for the United States and in all countries, in and to any and all inventions, discoveries and applications which are disclosed in the application for United States Letters Patent entitled:

MICROFLUIDICS APPARATUS AND METHODS FOR USE THEREOF

filed with the U.S. Patent and Trademark Office on **November 13, 2001** and assigned **Serial No 10/054,762** including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my/our names at the ASSIGNEE, or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, sale and transfer not been made.

We agree, at any time, upon the request of the ASSIGNEE, to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries, or applications and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

We further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

We hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

We further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date: Feb 22, 2002

Thomas Wiggins
Thomas Wiggins

State of Maryland
Country of United States

Subscribed and sworn to before me this 22 day of February, 2002.

SEAL

Steven J. Rafferty
Notary Public
My commission expires 3/8/02

Date: Feb 19, 2002

Madhushree Ghosh
Madhushree Ghosh

State of _____
Country of _____

Subscribed and sworn to before me this ____ day of _____, 2002.

SEAL

Notary Public
My commission expires _____

Date: _____

Lawrence A. Bottomley

State of _____

Country of _____

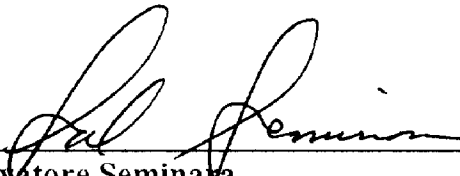
Subscribed and sworn to before me this ____ day of _____, 2002.

SEAL

Notary Public

My commission expires _____

Date: 2-19-2002



Salvatore Seminara

State of _____

Country of _____

Subscribed and sworn to before me this ____ day of _____, 2002.

SEAL

Notary Public

My commission expires _____

Date: _____

Zhiyu Hu

State of _____

Country of _____

Subscribed and sworn to before me this ____ day of _____, 2002.

SEAL

Notary Public

My commission expires _____

Date: 2-18-02

Timothy Seeley
Timothy Seeley

State of _____
Country of _____

Subscribed and sworn to before me this _____ day of _____, 2002.

SEAL

Notary Public
My commission expires _____

Date: 2-20-02

Sebastian Kossek
Sebastian Kossek

State of _____
Country of _____

Subscribed and sworn to before me this _____ day of _____, 2002.

SEAL

Notary Public
My commission expires _____

TRA 1614756A1

ASSIGNMENT

We, **Thomas Wiggins of Columbia, MD, Madhushree Gosh of Rockville, MD, Lawrence A. Bottomley of Lawrenceville, GA, Salvatore Seminara of Chicago, IL, Zhiyu Hu of Bethesda, MD, Timothy Seeley of Bethesda, MD and Sebastian Kossek of Phoenix, AZ**, the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, hereby assign, sell and transfer to **Protiveris, Inc.**, a Delaware corporation, with offices at **9700 Great Seneca Highway, Rockville, MD 20850** and its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE: (1) our entire right, title and interest for the United States and in all countries, in and to any and all inventions, discoveries and applications which are disclosed in the application for United States Letters Patent entitled:

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Date: _____

Thomas Wiggins

State of _____

Country of _____

Subscribed and sworn to before me this ____ day of _____, 2002.

SEAL

Notary Public

My commission expires _____

Date: Feb 19, 2002

Madhushree Ghosh

Madhushree Ghosh

State of Maryland
Country of United States

Subscribed and sworn to before me this 19 day of February, 2002.

SEAL

Aileen J. Paffly

Notary Public
My commission expires 3/8/02

Date: _____

Lawrence A. Bottomley

State of _____

Country of _____

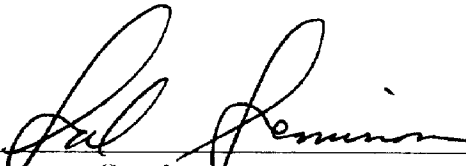
Subscribed and sworn to before me this _____ day of _____, 2002.

SEAL

Notary Public

My commission expires _____

Date: 2-19-2002

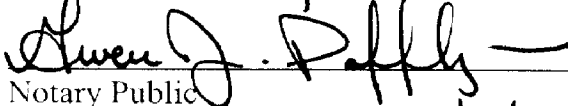


Salvatore Seminara

State of Maryland
Country of United States

Subscribed and sworn to before me this 19 day of February, 2002.

SEAL



Notary Public

My commission expires 3/8/02

Date: _____

Zhiyu Hu

State of _____

Country of _____

Subscribed and sworn to before me this _____ day of _____, 2002.

SEAL

Notary Public

My commission expires _____

Date: 2-18-02

Timothy Seeley
Timothy Seeley

State of Maryland
Country of United States

Subscribed and sworn to before me this 18 day of February, 2002.

SEAL

Aileen J. Paffly
Notary Public
My commission expires 3/8/02

Date: 2-20-02

Dr. Sebastian Kossek
Sebastian Kossek

State of Maryland
Country of United States

Subscribed and sworn to before me this 20 day of February, 2002.

SEAL

Aileen J. Paffly
Notary Public
My commission expires 3/8/02

TRA 1614750v1

ASSIGNMENT

We, **Thomas Wiggins of Columbia, MD, Madhushree Gosh of Rockville, MD, Lawrence A. Bottomley of Lawrenceville, GA, Salvatore Seminara of Chicago, IL, Zhiyu Hu of Bethesda, MD, Timothy Seeley of Bethesda, MD and Sebastian Kossek of Phoenix, AZ**, the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, hereby assign, sell and transfer to **Protiveris, Inc.**, a Delaware corporation, with offices at **9700 Great Seneca Highway, Rockville, MD 20850** and its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE: (1) our entire right, title and interest for the United States and in all countries, in and to any and all inventions, discoveries and applications which are disclosed in the application for United States Letters Patent entitled:

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Date: 2-22-02

Lawrence A. Bottomley
Lawrence A. Bottomley

State of Maryland
Country of United States

Subscribed and sworn to before me this 22 day of February, 2002.

SEAL

Henry J. Rafferty
Notary Public
My commission expires 3/8/02

Date: _____

Salvatore Seminara

State of _____
Country of _____

Subscribed and sworn to before me this _____ day of _____, 2002.

SEAL

Notary Public
My commission expires _____

Date: _____

Zhiyu Hu

State of _____
Country of _____

Subscribed and sworn to before me this _____ day of _____, 2002.

SEAL

Notary Public
My commission expires _____

ASSIGNMENT

We, **Thomas Wiggins of Columbia, MD, Madhushree Gosh of Rockville, MD, Lawrence A. Bottomley of Lawrenceville, GA, Salvatore Seminara of Chicago, IL, Zhiyu Hu of Bethesda, MD, Timothy Seeley of Bethesda, MD and Sebastian Kossek of Phoenix, AZ**, the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, hereby assign, sell and transfer to **Protiveris, Inc.**, a Delaware corporation, with offices at **9700 Great Seneca Highway, Rockville, MD 20850** and its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE: (1) our entire right, title and interest for the United States and in all countries, in and to any and all inventions, discoveries and applications which are disclosed in the application for United States Letters Patent entitled:

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Date: _____

Lawrence A. Bottomley

State of _____

Country of _____

Subscribed and sworn to before me this _____ day of _____, 2002.

SEAL

Notary Public

My commission expires _____

Date: _____

Salvatore Seminara

State of _____

Country of _____

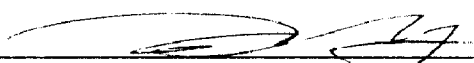
Subscribed and sworn to before me this _____ day of _____, 2002.

SEAL

Notary Public

My commission expires _____

Date: 2/18/02

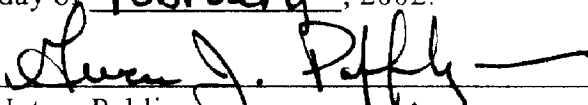


Zhiyu Hu

State of Maryland
Country of United States

Subscribed and sworn to before me this 18 day of February, 2002.

SEAL



Notary Public

My commission expires 3/8/02