

11-01-2000

TO/PCT Rev'd 12 OCT 2000

FORM PTO-1595
1-31-98
MRD 10/12/00 RI



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Patent and Trademark Office

09/622686

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To the Director of Patents and Trademark

nents or copy thereof.

1. Name of Conveying Party(ies):
Juha Kononen, Stephen B. Leighton, and Olli Kallioniemi

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

Additional name(s) of conveying party(ies) attached? YES NO

Name: The Government of the United States of America as
represented by the Secretary of the Department of Health and
Human Services

3. Nature of Conveyance:

- Assignment Merger
 Security Agreement Change of Name
 Other

Internal Address: Office of Technology Transfer, Suite 325

Execution Date: October 6, 2000 and September 26,
2000

Street Address: 6011 Executive Boulevard

City Rockville State MD ZIP 20852

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

4. Application number(s) or patent number(s):

09/622686

If this document is being filed together with a new application, the execution date

of the application is: _____

A. Patent Application No.(s)

09/622,686

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: William D. Noonan, M.D.
Klarquist Sparkman Campbell Leigh & Whinston, LLP
Internal Address:
One World Trade Center, Suite 1600
Street Address:
121 S.W. Salmon Street
Portland, Oregon 97204-2988

6. Total number of applications and patents involved: One

7. Total fee (37 CFR § 3.41): \$40.00 Enclosed.

8. Any deficiency/overpayment is authorized to be charged to deposit account 02-4550. A copy of this sheet is enclosed.

DO NOT USE THIS SPACE

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.

William D. Noonan, M.D.

William D. Noonan

October 12, 2000

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments and document: 4

OMB No. 0651-0011 (exp. 4/94)



ASSIGNMENT

WHEREAS, we, Juha Kononen, of 1920 Valley Stream Drive, Rockville, Maryland, 20851, a citizen of Finland, Stephen B. Leighton, of 9007 Woodland Drive, Silver Spring, Maryland, 20910, a citizen of the United States of America, and Olli P. Kallioniemi, of 1083 Grand Oak Way, Rockville, Maryland, 20852, a citizen of Finland, employees of the Department of Health and Human Services at the time the invention was made, have invented TUMOR TISSUE MICROARRAYS FOR RAPID MOLECULAR PROFILING, for which a provisional patent application was sent to the Commissioner for Patents, identified as U.S. Patent Application No. 60/075,979, filed February 25, 1998; and for which an international application was filed, identified as PCT/US99/04001, filed February 24, 1999; and for which for which an application to the Commissioner for Patents for grant of Letters Patent of the United States of America has been executed by the undersigned on August 18, 2000, and has been assigned Serial No. 09/622,686; and

WHEREAS, we by virtue of this assignment, and the conditions under which said invention was made are such as to entitle the Government of the United States of America under Paragraph 1(a) of Executive order 10096, to the entire right, title, and interest herein, both domestic and foreign; and

WHEREAS, the Government of the United States of America is desirous of acquiring all domestic and foreign right, title, and interest in the aforesaid invention described in the aforesaid application for Letters Patent of the United States of America; and

NOW, THEREFORE, to all whom it may concern, be it known for and in consideration of the premises and other valuable considerations, we the undersigned, have sold, assigned, and transferred and by these presents do sell, assign, and transfer unto The Government of the United States of America as represented by the Secretary of the Department of Health and Human Services (hereinafter THE GOVERNMENT), and his successors, the full and exclusive right, title, and interest throughout the United States of America, its territories and dependencies, and within each and every foreign country in which THE GOVERNMENT elects to file the invention described in the aforesaid application for Letters Patent of the United States of America, and all Letters Patents and Registrations which may be granted on the same in the United States of America and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention, or of any divisional, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

AND, we hereby authorize and request the Commissioner for Patents to issue said Letters Patent to THE GOVERNMENT as an assignee of the entire right, title, and interest in and to the same throughout the United States of America, its territories and dependencies, and within each and every foreign country in which THE GOVERNMENT elects to file, for the sole use for the full term or terms for which said Letters Patent and Registrations may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof which may be granted as fully and entirely as the same would have been held by us, had this assignment not been made;

AND, we hereby warrant that there are no outstanding assignments, grants, liens, encumbrances, or agreements either written, oral, or implied with respect to the aforesaid application for Letters Patent which will impair, diminish, limit, or abridge the interest herein conveyed at the time of the execution of this instrument by us;

AND, we hereby agree to execute any and all applications for Letters Patent in the United States of America and foreign countries, and to furnish and deliver to the Secretary, Department of Health and Human Services, upon request, all data and documents, and to execute any papers which may be necessary for the prosecution of any application or applications of Letters Patent or for THE GOVERNMENT to exercise its rights granted hereunder, including communicating to THE GOVERNMENT, its representatives or agents, any facts relating to said invention, including evidence for interference purposes, or for other proceedings, whenever requested, to testify in any interference or other proceedings, whenever requested, and to execute and deliver on request all lawful papers required to make any of the foregoing provisions effective, and likewise make these provisions binding upon our heirs, legal representatives, administrators and assigns, and we shall assist THE GOVERNMENT in every way as may be requested in protecting said invention, provided that any expense of extending such assistance shall be paid by THE GOVERNMENT.

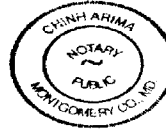
We hereby grant the law firm of Klarquist Sparkman Campbell Leigh & Winston, LLP, the power to insert on this Assignment any further information which may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 10/6/00

Juha Kononen
Juha Kononen

STATE OF Maryland)
COUNTY OF Montgomery) ss.



Chinh Arima, Notary Public
Montgomery County
State of Maryland
My Commission Expires Sept. 1, 2009

This 6 day of Oct 2000, before me personally came the above-named Juha Kononen, who executed the foregoing Assignment in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

Chinh Arima
Notary Public for Montgomery County
My commission expires:

[SEAL]

Dated: _____

Stephen B. Leighton

STATE OF _____)
COUNTY OF _____) ss.

This ___ day of _____, _____, before me personally came the above-named Stephen B. Leighton, who executed the foregoing Assignment in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

Notary Public for _____
My commission expires:

[SEAL]

Dated: 9/26/00

Stephen B. Leighton
Stephen B. Leighton

STATE OF Maryland)
COUNTY OF Montgomery) ss.

This 26th day of Sept 2000, before me personally came the above-named Stephen B. Leighton, who executed the foregoing Assignment in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

We hereby grant the law firm of Klarquist Sparkman Campbell Leigh & Winston, LLP, the power to insert on this Assignment any further information which may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

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Dated: 10/6/00

Juha Kononen
Juha Kononen

STATE OF Maryland)
) ss.
COUNTY OF Montgomery)



Chinh Arima, Notary Public
Montgomery County
State of Maryland
My Commission Expires Sept. 1, 2009

This 6 day of Oct 2000, before me personally came the above-named Juha Kononen, who executed the foregoing Assignment in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

[Signature]
Notary Public for Montgomery County
My commission expires:

[SEAL]

Dated: _____

Stephen B. Leighton

STATE OF _____)
) ss.
COUNTY OF _____)

This ___ day of _____, _____, before me personally came the above-named Stephen B. Leighton, who executed the foregoing Assignment in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

Notary Public for _____
My commission expires:

[SEAL]

We hereby grant the law firm of Klarquist Sparkman Campbell Leigh & Whinston, LLP, the power to insert on this Assignment any further information which may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: _____ X _____
Juha Kononen

STATE OF _____)
COUNTY OF _____) ss.
COUNTY OF _____)

This ___ day of _____, _____, before me personally came the above-named Juha Kononen, who executed the foregoing Assignment in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

Notary Public for _____
My commission expires:

[SEAL]

Dated: 9/26/00 Stephen B. Leighton
Stephen B. Leighton

STATE OF Maryland)
COUNTY OF Montgomery) ss.

This 26th day of Sept 2000, before me personally came the above-named Stephen B. Leighton, who executed the foregoing Assignment in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

RAZIAH CASWELL
NOTARY PUBLIC STATE OF MARYLAND
My Commission Expires February 28, 2001
Raziah Caswell Sept 26/2000
Notary Public for _____
My commission expires _____
RAZIAH CASWELL
NOTARY PUBLIC STATE OF MARYLAND

[SEAL]

Dated: 6/10/2000


and Olli P. Kallioniemi

STATE OF _____)
) ss.
COUNTY OF _____)

This ____ day of _____, _____, before me personally came the above-named and Olli P. Kallioniemi, who executed the foregoing Assignment in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

Notary Public for _____
My commission expires:

[SEAL]