

09-25-2000

FORM PTO-1595
(Rev. 6/93)



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Attorney's Docket No. 031786-019

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Stephen M. Boyle, Silvio Cravero, Gerhardt G. Schurig,
Nammalwar Sriranganathan, and Ramesh Vermulapalli

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

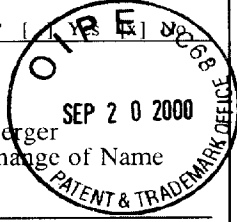
Name: Virginia Polytechnic Institute and State University

Address: Blacksburg, Virginia

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name



Other: _____

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

Execution Date: 7/17/2000, 8/23/2000, 7/17/2000,
7/17/2000, and 7/17/2000 respectively

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)

09/051,521

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Brian O'Shaughnessy

Address: BURNS, DOANE, SWECKER & MATHIS, L.L.P.

P.O. Box 1404

Alexandria, Virginia 22313-1404

6. Total number of applications and patents involved: 1

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

Enclosed

Authorized to be charged to deposit account, if necessary

8. Deposit account number:

02-4800

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.

Kathleen Neuner Mame
Name of Person Signing

Signature

September 20, 2000
Date

Total number of pages including cover sheet, attachments, and document: 5

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

Commissioner of Patents and Trademarks
Box Assignments
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09/21/2000 CV0222 00000133 09051521

01 FC:5a1 40.00 OP
02 FC:5a1 40.00 OP
03 FC:5a1 40.00 OP

PATENT (09/99)
REEL: 011092 FRAME: 0403

ASSIGNMENT OF INVENTION

KJM 7-17-00

WHEREAS, we, Stephen M. Boyle, ~~Lynette D. Corbell~~, Silvio Cravero, Gerhardt G. Schurig, Nammalwar Sriranganathan and Ramesh Vermulapalli, have invented certain new and useful improvements in An Over-Expressing Homologous Antigen Vaccine and a Method of Making the Same for which a United States Letters Patent application no. 09/091,521 filed on June 19, 1998; and

WHEREAS, Virginia Polytechnic Institute & State University, an institute of higher education organized under the laws of the Commonwealth of Virginia, having an office and principal place of business at Blacksburg, Virginia hereinafter referred to as Assignee, is desirous of acquiring an interest in said invention and in any Letters Patent which may be granted therefore.

NOW THIS INDENTURE WITNESSETH, That for a valuable consideration, the receipt of which is hereby acknowledged, we hereby assign, sell and transfer unto the said assignee, the entire right, title and interest in and to inventions disclosed in said application and in and to any Letters Patent of the United States and in and to any Letters Patent or Inventor's Certificates of any and all foreign countries which may be granted therefore, and in and to any and all priority and/or Convention rights or benefits accruing or to accrue to us with respect to the filing or securing of patents in the United States and/or securing of patents or inventor's certificates in any and ail countries foreign thereto.

AND WE hereby grant to assignee the right to apply in its own name for patents or inventor's certificates corresponding to the above invention in countries foreign to the United States.

AND WE hereby further agree to sign and properly execute such necessary and lawful papers for application for foreign patents and inventor's certificates for filing applications for United States, foreign patents and inventor's certificates for subdivisions of any applications for patent or inventor's certificate and/or for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid invention and to perform such further acts as may be required to carry out the intent of this agreement as the assignee thereof shall hereafter require and prepare at assignee's expense.

Signed

SM Boyle Dated 7/17/2000
Stephen M. Boyle

~~Lynette D. Corbell~~ Dated _____

[Signature] Dated _____
Silvio Cravero

[Signature] Dated 7/17/00
Gerhardt G. Schurig

KJM 7-17-00

N. S. S. S.

Nammalwar Sfiranganathan

Dated 7/17/2000

R. V.

Ramesh Vermulapalli

Dated 7/17/2000

ASSIGNMENT OF INVENTION

Handwritten: 9-19-00

WHEREAS, we, Stephen M. Boyle, ~~Lynette B. Corbell~~, Silvio Cravero, Gerhardt G. Schurig, Nammalwar Sriranganathan and Ramesh Vermulapalli, have invented certain new and useful improvements in An Over-Expressing Homologous Antigen Vaccine and a Method of Making the Same for which a United States Letters Patent application no. 09/091,521 filed on June 19, 1998; and

WHEREAS, Virginia Polytechnic Institute & State University, an institute of higher education organized under the laws of the Commonwealth of Virginia, having an office and principal place of business at Blacksburg, Virginia hereinafter referred to as Assignee, is desirous of acquiring an interest in said invention and in any Letters Patent which may be granted therefore.

NOW THIS INDENTURE WITNESSETH, That for a valuable consideration, the receipt of which is hereby acknowledged, we hereby assign, sell and transfer unto the said assignee, the entire right, title and interest in and to inventions disclosed in said application and in and to any Letters Patent of the United States and in and to any Letters Patent or Inventor's Certificates of any and all foreign countries which may be granted therefore, and in and to any and all priority and/or Convention rights or benefits accruing or to accrue to us with respect to the filing or securing of patents in the United States and/or securing of patents or inventor's certificates in any and all countries foreign thereto.

AND WE hereby grant to assignee the right to apply in its own name for patents or inventor's certificates corresponding to the above invention in countries foreign to the United States.

AND WE hereby further agree to sign and properly execute such necessary and lawful papers for application for foreign patents and inventor's certificates for filing applications for United States, foreign patents and inventor's certificates for subdivisions of any applications for patent or inventor's certificate and/or for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid invention and to perform such further acts as may be required to carry out the intent of this agreement as the assignee thereof shall hereafter require and prepare at assignee's expense.

Signed

Stephen M. Boyle Dated _____

~~Lynette B. Corbell~~ Dated _____

Handwritten: 1-19-00

Handwritten signature: Silvio Cravero

Silvio Cravero Dated 8/23/2000 Buenos Aires, Argentina

Gerhardt G. Schurig Dated _____

Dated _____

Nammalwar Sriranganathan

Dated _____

Ramesh Vermulapalli