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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Tab settings

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

1. Name of conveying party(ies):
(1) **KENNETH H. ECKELS**; (2) **JOSEPH R. PUTNAK**
(3) **DORIA R. DUBOIS**; (4) **BRUCE L. INNIS**;
(5) **CHARLES H. HOKE**; (6) **WELLINGTON SUN**;
(7) **NIRANJAN KANESA-THASAN**

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

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

Name: **United States Army**

Address: **U.S. Army Medical Research and Materiel**

Command

504 Scott Street

Fort Detrick

City: **Frederick**

State/Prov.: **MD**

Country: **USA**

ZIP: **21702-5012**

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

3. Nature of conveyance:

Assignment

Merger

Security Agreement

Change of Name

Other

Execution Date: **(1-3)&(6) 6 Jul 00; (4) 5 Jul 00; (5)&(7)**

12 Jul 00

4. Application number(s) or registration numbers(s):

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

Patent Application No.

Filing date

B. Patent No.(s)

09/535,117

March 24, 2000

Additional numbers attached? Yes No

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

Name: **Elizabeth Arwine**

Registration No. **45,867**

Address: **U.S. Army Medical Research and Materiel**

Command, ATTN: MCMR-JA

504 Scott Street, Fort Detrick

City: **Frederick**

State/Prov.: **MD**

Country: **USA**

ZIP: **21702-5012**

08/18/2000 DNGUYEN 00000107 210380 09535117

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

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

Enclosed - Any excess or insufficiency should be credited or debited to deposit account

Authorized to be charged to deposit account

8. Deposit account number:

21-0380

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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.

ELIZABETH ARWINE, Reg. No. 45,867

Elizabeth Arwine

13 July 2000

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: **6**

PATENT

REEL: 010999 FRAME: 0378

ASSIGNMENT OF INVENTION

For use of this form, see AR 27-60; the proponent agency is OTJAG

Title of Invention: MULTIVALENT DENGUE VIRUS VACCINE

Inventor(s) Kenneth Eckels; Putnak; Dubois; Innis; Hoke; Wellington; Kanesa-Thasan

* Application Serial No.: 09/535,117

* Date Oath Executed: _____ * Filing Date: March 24, 2000

(*Data not known at execution may be added for better identification.)

I (We), the undersigned inventor(s), in consideration of the rights of the Government of the United States acquired by virtue of the circumstances under which the above-entitled invention was made, hereby:

1. Assign to the Government of the United States, as represented by the Secretary of the Army, the entire right, title and interest throughout the United States, its Territories, Possessions, and Puerto Rico, in and to the above-entitled invention and application for patent and all Letters Patent issuing thereon, and any continuation, continuation-in-part or division of said application and any reissue or extension of said Letters Patent.

2. Agree to assign to the Government upon its request, title and interest in the invention in those foreign countries in which the Government, within eight months of the filing of the United States application for patent, determines to cause an application to be filed; provided that if the Government determines not to cause an application to be filed in any particular foreign country or fails to make such a determination, within the said eight months, all right, title and interest in the invention in such foreign country shall remain in me (us), subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent which may issue on the invention in such foreign country, including the power to issue sublicenses for use in behalf of the Government and/or furtherance of the foreign policies of the Government.

3. Agree to provide any further information within my (our) knowledge and to execute any further documents necessary to the prosecution of patent applications on the invention, the prosecution and settlement of interferences and recording of title to patent applications and patents issuing thereon.

Signature of Inventor: *Kenneth* *H* *Eckels*
(First name) (Middle Initial) (Last name)

Duty Address: Walter Reed Army Institute of Research, Silver Spring, MD 20910-7500
(Locality) (County) (State)

Date: 6 Jul 00 Typed Name of Inventor: KENNETH H. ECKELS

State of: Washington)
County of: DC) SS

On the above date KENNETH H. ECKELS known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that the same as his own free act and deed.

Nanette Jones-Potts
(Signature of notary public)

(SEAL)

NANETTE JONES-POTTS
NOTARY PUBLIC DISTRICT OF COLUMBIA
My Commission Expires **January 14, 2005**

SUPPLEMENTAL SIGNATURE SHEET

For use of this form, see AR 27-60; the proponent agency is OTJAG

Use this form with DA Forms 2873-R and 2874-R when additional signature blocks are needed.

1. ASSIGNOR(s) OR LICENSOR(s) NAME(s)
Kenneth Eckels; Joseph Putnak; Doria Dubois; Bruce Innis; Charles Hoke;
Sun Wellington; and Niranjana Kanesa-Thanan

2. APPLICATION SERIAL NUMBER
09/535,117

3. FILING DATE
March 24, 2000

4. TITLE OF INVENTION

MULTIVALENT DENGUE VIRUS VACCINE

SIGNATURE OF INVENTOR: *J. Putnak*
(First name) (Middle initial) (Last name)

DUTY ADDRESS: Walter Reed Army Institute of Research, Silver Spring, MD 20910-7500

DATE SIGNED: 6 July 2000 INVENTOR'S TYPED NAME: JOSEPH R. PUTNAK

STATE OF Washington)
COUNTY OF DC) SS.

On the above date **JOSEPH R. PUTNAK** known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that he executed the same as his own free act and deed.

(SEAL)

Nanette Jones Potts
(Signature of notary public)

NANETTE JONES-POTTS
NOTARY PUBLIC DISTRICT OF COLUMBIA
My Commission Expires January 14, 2005

SIGNATURE OF INVENTOR: *Doria R. Dubois*
(First name) (Middle initial) (Last name)

DUTY ADDRESS: Walter Reed Army Institute of Research, Silver Spring, MD 20910-7500

DATE SIGNED: July 6, 2000 INVENTOR'S TYPED NAME: DORIA R. DUBOIS

STATE OF Washington)
COUNTY OF DC) SS.

On the above date **DORIA R. DUBOIS** known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that he executed the same as his own free act and deed.

(SEAL)

Nanette Jones Potts
(Signature of notary public)

NANETTE JONES-POTTS
NOTARY PUBLIC DISTRICT OF COLUMBIA
My Commission Expires January 14, 2005

SUPPLEMENTAL SIGNATURE SHEET

For use of this form, see AR 27-60; the proponent agency is OTJAG

Use this form with DA Forms 2873-R and 2874-R when additional signature blocks are needed.

1. ASSIGNOR(s) OR LICENSOR(s) NAME(s)
Kenneth Eckels; Joseph Putnak; Doria Dubois; Bruce Innis; Charles Hoke;
Sun Wellington; and Niranjan Kanasa-Thasan

2. APPLICATION SERIAL NUMBER
09/535,117

3. FILING DATE
March 24, 2000

4. TITLE OF INVENTION
MULTIVALENT DENGUE VIRUS VACCINE

SIGNATURE OF INVENTOR: Bruce L Innis
(First name) (Middle initial) (Last name)

DUTY ADDRESS: Walter Reed Army Institute of Research, Silver Spring, MD 20910-7500

DATE SIGNED: 5 July 00 INVENTOR'S TYPED NAME: BRUCE L. INNIS

STATE OF PA)
COUNTY OF montgomery) SS.

On the above date **BRUCE L. INNIS** known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that he executed the same as his own free act and deed.

(SEAL)

Janet Hoffner
Notary Seal
Janet Hoffner, Notary Public
Lower Southampton Twp., Bucks County
My Commission Expires Sept. 19, 2002
My Commission expires on _____
Member, Pennsylvania Association of Notaries

SIGNATURE OF INVENTOR: Charles H. Hoke, Jr
(First name) (Middle initial) (Last name)

DUTY ADDRESS: Walter Reed Army Institute of Research, Silver Spring, MD 20910-7500

DATE SIGNED: 12 July 2000 INVENTOR'S TYPED NAME: CHARLES H. HOKE

STATE OF MARYLAND)
COUNTY OF FREDERICK) SS.

On the above date **CHARLES H. HOKE** known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that he executed the same as his own free act and deed.

(SEAL)

Wendell Tracey
(Signature of notary public)
My Commission expires on December 1, 2001

SUPPLEMENTAL SIGNATURE SHEET

For use of this form, see AR 27-60; the proponent agency is OTJAG

Use this form with DA Forms 2873-R and 2874-R when additional signature blocks are needed.

1. ASSIGNOR(s) OR LICENSOR(s) NAME(s)
Kenneth Eckels; Joseph Putnak; Doria Dubois; Bruce Innis; Charles Hoke;
Sun Wellington; and Niranjana Kanesa-Thasan

2. APPLICATION SERIAL NUMBER
09/535,117

3. FILING DATE
March 24, 2000

4. TITLE OF INVENTION

MULTIVALENT DENGUE VIRUS VACCINE

SIGNATURE OF INVENTOR: Nellyta
(First name) (Middle initial) (Last name)

DUTY ADDRESS: Walter Reed Army Institute of Research, Silver Spring, MD 20910-7500

DATE SIGNED: 6 July 2000 INVENTOR'S TYPED NAME: SUN, WELLINGTON

STATE OF Washington)
COUNTY OF DC) SS.

On the above date **SUN WELLINGTON** known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that he executed the same as his own free act and deed.

(SEAL) Nanette Jones-Potts
(Signature of notary public)

NANETTE JONES-POTTS
NOTARY PUBLIC DISTRICT OF COLUMBIA
My Commission expires on **January 14, 2005**

SIGNATURE OF INVENTOR: Niraja Kanesa-Thasan
(First name) (Middle initial) (Last name)

DUTY ADDRESS: Walter Reed Army Institute of Research, Silver Spring, MD 20910-7500

DATE SIGNED: July 12, 2000 INVENTOR'S TYPED NAME: NIRANJANA KANESA-THASAN

STATE OF MARYLAND)
COUNTY OF FREDERICK) SS.

On the above date **NIRANJANA KANESA-THASAN** known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that he executed the same as his own free act and deed.

(SEAL) WILL L. TRACY
(Signature of notary public)

My Commission expires on December 1, 2001