

Form PTO-1595 (Rev. 03-09)
OMB No. 0651-0027 (exp. 03/31/2009)

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RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)
 ROBERT H. REID; WILLIAM R. BROWN; EDGAR C. BOEDEKER;
 JOHN E. VAN HAMONT; CURT THIES

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

2. Name and address of receiving party(ies)
 Name: UNITED STATES ARMY
 Internal Address: U.S. ARMY MEDICAL RESEARCH AND
 MATERIEL COMMAND
 Street Address: 504 SCOTT STREET
 FORT DETRICK
 City: FREDERICK
 State: MARYLAND
 Country: U.S.A. Zip: 21702-5012

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

3. Nature of conveyance/Execution Date(s):
 Execution Date(s) 7/28/94; 7/28/94; 7/28/94; 8/8/94; 8/24/94

Assignment Merger
 Security Agreement Change of Name
 Joint Research Agreement
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other _____

4. Application or patent number(s): This document is being filed together with a new application.

A. Patent Application No.(s)
 09/451,321 filed 11/30/1999
 Which is a REISSUE of 08/242,960 filed 05/16, 1994

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:
 Name: ELIZABETH ARWINE
 Internal Address: U.S. ARMY MEDICAL RESEARCH AND
 MATERIEL COMMAND
 Street Address: 504 SCOTT STREET
 FORT DETRICK
 City: FREDERICK
 State: MARYLAND Zip: 702-5012
 Phone Number: 301-619-7808
 Fax Number: 301-619-5034
 Email Address: ELIZABETH.ARWINE@AMEDD.ARMY.MIL

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00

Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 21-0380
 Authorized User Name ELIZABETH ARWINE

9. Signature: Elizabeth Arwine 10/23/09
 Signature Date

ELIZABETH ARWINE, REG. NO. 45,867
 Name of Person Signing

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

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

CH \$40.00 210380 09451321

ASSIGNMENT OF INVENTION

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

Microparticle Carriers of Maximal Uptake Capacity by Both

Title of Invention: M Cells and Non M Cells
Inventor(s): Robert H. Reid, M.D., John VanHamont, Ph.D., William R. Brown, M.D., Edgar C. Boedeker, M.D. and Curt Thies, Ph.D.

*Application Serial No.: 08,242,960

*Date Oath Executed: _____ *Filing Date: May 16, 1994

(*Date 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: Robert H. Reid, M.D.
(First name) (Middle Initial) (Last name)

Duty Address: WRAMC, Washington, D.C.
(Locality) (County) (State)

Date: 28 July 1994 Typed Name of Inventor: Robert H. Reid, M.D.

State of _____)
County of _____) SS.
City of Washington District of Columbia

On the above date Robert H. Reid 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.

C Cheryl D. Colbert
(Signature of notary public)

(SEAL)

My Commission expires on 14 June 1999
CHERYL D. COLBERT
NOTARY PUBLIC DISTRICT OF COLUMBIA
My Commission Expires June 14, 1999

REEL 7122
FRAME 0100

SUPPLEMENTAL SIGNATURE SHEET

For use of this form, see AR 27-80; 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) Government of the United States | 2. APPLICATION SERIAL NUMBER 08/242,960 |
| | 3. FILING DATE May 16, 1994 |

4. TITLE OF INVENTION
Microparticle Carriers of Maximal Uptake Capacity by Both M cells and non-M cells

SIGNATURE OF INVENTOR: William R. Brown
First name Middle Initial Last name

DUTY ADDRESS: WRAR/WRAM Washington DC

DATE SIGNED: 28 July 1994 INVENTOR'S TYPED NAME: William R. Brown, M.D.

STATE OF _____)
COUNTY OF _____) SS.
City of Washington, District of Columbia

On the above date William R. Brown 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) C Cheryl Colbert
Signature of notary public

CHERYL D. COLBERT
NOTARY PUBLIC DISTRICT OF COLUMBIA
My Commission Expires June 14, 1999
My Commission expires on 14 June 1999

SIGNATURE OF INVENTOR: Edgar C. Boedeker
First name Middle Initial Last name

DUTY ADDRESS: WRAR, WRAME WASHINGTON, D.C.

DATE SIGNED: 28 July 1994 INVENTOR'S TYPED NAME: Edgar C. Boedeker, M.D.

STATE OF _____)
COUNTY OF _____) SS.
City of Washington, District of Columbia

On the above date Edgar C. Boedeker 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) C Cheryl Colbert
Signature of notary public

CHERYL D. COLBERT
NOTARY PUBLIC DISTRICT OF COLUMBIA
My Commission Expires June 14, 1999
My Commission expires on 14 June 1999

REEL 7122
FRAME 0101

PATENT

SUPPLEMENTAL SIGNATURE SHEET

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| | |
|--|--|
| 1. ASSIGNOR(S) OR LICENSOR(S) NAME(S) Government of the United States | 2. APPLICATION SERIAL NUMBER 08/242,960 |
| | 3. FILING DATE May 16, 1994 |

4. TITLE OF INVENTION
Microparticle Carriers of Maximal Uptake by Both M Cells and Non M Cells

SIGNATURE OF INVENTOR: John E. van Hamont
First name Middle Initial Last name

DUTY ADDRESS: WRAIR, BLDG 2832, Fort Meade, Maryland 20755

DATE SIGNED: August 8, 1994 INVENTOR'S TYPED NAME: John E. van Hamont, Ph.D.

STATE OF Maryland)
 COUNTY OF Anne Arundel) SS.

On the above date John E. van Hamont 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)

VADA J. MEAFEE
 NOTARY PUBLIC STATE OF MARYLAND
 My Commission expires on November 1, 1995

REEL 7122
 FRAME 0102

SIGNATURE OF INVENTOR: Curt (WMI) Thies
First name Middle Initial Last name

DUTY ADDRESS: WRAIR, Bldg 2832, Fort Meade, Maryland 20755

DATE SIGNED: August 24, 1994 INVENTOR'S TYPED NAME: CURT THIES, PH.D.

STATE OF Virginia)
 COUNTY OF Richington) SS.

On the above date Curt Thies 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) RECORDED & TRADE MARK OFFICE

David W. Rouleau
(Signature of notary public)

SEP - 1 94

My Commission expires on November 30, 1995