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11-03-2000

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101600

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To the Honorable Commissioner of Patents at

101504500

ied original documents or copy thereof.

1. Name of conveying party(ies):

Vipin K. Rastogi and Geo-Centers, Inc.

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

Name: United States of America as represented by theInternal Address: Secretary of the ArmyAdditional names(s) of conveying party(ies) ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other _____

Street Address: _____

City: Washington State: DC ZIP: 20515Execution Date: 8/13/990Additional name(s) & address(es) attached? ☐ Yes ☒ No

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: _____

A. Patent Application No.(s)

B. Patent No.(s)

09/603,450Additional numbers attached? ☐ Yes ☒ No

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

Name: U.S.A. Soldier & Biological Chemical CommandInternal Address: ATTN: AMSSB-SCC/Bldg E4435(Vicki Upchurch)Phone: (410) 436-1291Street Address: 5183 Blackhawk RoadCity: APG State: MD ZIP: 210106. Total number of applications and patents involved: 17. 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:

19-2201

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.

Vicki A. Upchurch

Name of Person Signing

Signature

Date

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

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PATENT

REEL: 011196 FRAME: 0687

ASSIGNMENT

FROM CONTRACTOR-EMPLOYEE TO CONTRACTOR
AND
FROM CONTRACTOR TO GOVERNMENT
(AMC-R 825-2)

APPLICATION FOR: Novel One Step Purification Process for Organophosphorus Hydrolase Enzyme
Short Title of Invention

INVENTOR(S): Vipin K. Rastogi, Tu-Chen Cheng, Joseph J. Defrank

* SERIAL NO: 09/603,450 FILING DATE: 6/26/00 DATE OATH EXECUTED: 6/22/00

CONTRACTOR: Geo-Centers, Inc

CONTRACT NO: _____

SUBCONTRACTOR: _____

* Data not known at execution time may be added later for better identification.

WHEREAS, under the terms of the above-identified Government contract with the United States Government, the Contractor ** agreed, inter alia, to grant to the Government certain rights under inventions and/or discoveries conceived or first actually reduced to practice in the performance of said contract; and

WHEREAS, the above-identified patent application discloses invention(s) within the purview of said rights agreed to be granted by the Contractor to the Government; and

WHEREAS, the Government desires that the assignment rights provided for by said contract in and to said invention(s) be confirmed; and

WHEREAS, under the employment contract, agreement or arrangement the Contractor-employer is entitled to an assignment in and to certain inventions made by the inventor(s) as part of his (their) duties as employee(s) of the Contractor; and

WHEREAS, the above-identified invention(s) was/were made in the performance of the above-identified contract and under such circumstances as to entitle the Government to an assignment of the entire right, title and interest in and to said invention(s) and any and all applications for Letters Patent thereon and in and to any and all Letters Patent granted on said application, subject only to a nonexclusive royalty free license to Contractor, said license to be non-transferable except to the successor of that part of the Contractor's business to which said license is appurtenant.

NOW, THEREFORE, be it known that for and in consideration of these premises and for other good and sufficient consideration, the receipt of which is hereby acknowledged, I (we), the inventor(s), do sell, assign, and transfer to the Contractor-employer the entire right, title and interest in and to said invention(s) and patent application and in and to all Letters Patent wherever they may be granted thereon, as well as divisions, continuations, reissues, and extensions of said application and Letters Patent, the same to be held and enjoyed by the said Contractor-employer to the full end of the term or terms for which Letters Patent are or may be granted, as fully and entirely as the same would have been held or enjoyed by me (us) had this assignment not been made.

**(The terms "Contract" and "Contractor" shall include subcontract and subcontractor, if applicable, wherever they occur.)

ASSIGNMENT (Continued)

PRIME CONTRACTOR AND NUMBER: Geo-Centers, Inc

SUBCONTRACTOR: _____

APPLICATION FOR: Novel One Step Purification Process for Organophosphorus Hydrolase Enzyme

INVENTOR(S): Vipin K. Rastogi, Tu-Chen Cheng, Joseph J. Defrank

SERIAL NO: 09/1003,450

FILING DATE: 6/26/00

SIGNATURE OF INVENTOR _____

(First Name)

(Middle Initial)

(Last Name)

ADDRESS: ECBC, APG, EDGEMOOD HARFORD MARYLAND - 21010
 (Locality) Area (County) (State)

DATE: 8/3/99

Vipin K. Rastogi

STATE OF Maryland)

(Inventor's typed name)

COUNTY OF Harford)

SS.

On the above date Vipin K. Rastogi, 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)

My commission expires on _____

Signature of Notary

SIGNATURE OF INVENTOR _____

(First Name)

(Middle Initial)

(Last Name)

ADDRESS: _____

(Locality)

(County)

(State)

DATE: _____

STATE OF _____)

(Inventor's typed name)

COUNTY OF _____)

SS.

On the above date _____, 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)

My commission expires on _____

Signature of Notary

PRIME CONTRACTOR AND NUMBER: Geo-Centers, Inc.

SUBCONTRACTOR: _____

APPLICATION FOR: Novel One Step Purification Process for Organophosphorus Hydrolase EnzymeINVENTOR(S): Vipin K. Rastogi, Tu-Chen Cheng, Joseph J. DefrankSERIAL NO: 09/603,450FILING DATE: 6/26/00**CONTRACTOR'S ASSIGNMENT**

The above-identified Contractor for and in consideration of these premises and for other good and sufficient consideration, the receipt of which is hereby acknowledged, by these presents does sell, assign, and transfer to the United States Government, as represented by the Secretary of the Army and his successors in office:

ONE: The entire right, title and interest throughout the United States, its Territories, Possessions, and Puerto Rico, in and to said invention(s) and patent application and in and to any and all Letters Patent granted thereon, as well as divisions, continuations, reissues, and extensions of said application and Letters Patent, the same to be held and enjoyed by the said Government of the United States, to the full end of the term or terms for which Letters Patent are or may be granted, as fully and entirely as the same would have been held or enjoyed by the Contractor had this assignment not been made, subject only to the license, as above recited, which license extends to Contractor and to existing and future associated and affiliated companies, if any, within the corporate structure of which Contractor is a part, and which license is hereby reserved.

TWO: The entire right, title and interest, in all foreign countries, in and to said invention(s) and in and to all foreign Letters Patent, subject only to the license, as above recited, which license extends to Contractor and to existing and future associated and affiliated companies, if any, within the corporate structure of which Contractor is a part, and which license is hereby reserved.

NOTE: The Contractor may delete this paragraph TWO by crossing it out and initialing in the margin. If paragraph TWO is deleted, the following paragraph then becomes applicable and forms part of this instrument.

Contractor further grants, conveys, and confirms to the Government of the United States, as represented by the Secretary of Army and his successors in office, in consideration of the premises and other good and sufficient consideration, an irrevocable, nonexclusive, and royalty-free license to practice, and cause to be practiced by and for the Government, in all foreign countries, in the manufacture, use and disposition according to law, any article, material, or method embodied in any and all of the inventions (within the scope of the said certain rights) disclosed in the above-identified patent application, as well as in any and all Letters Patent, for the full term or terms thereof, which may eventuate from or be based thereon, the said license (1) being non-transferable, except that the Government has the right to grant sub-licenses to any foreign government or international organization specifically for use in programs established by International Agreements for research, development, or production of weapons or equipment for mutual defense, and (ii) including the practice of the licensed inventions in the manufacture, use, and disposition of any article or material, in the use of any method, or in the performance of any service acquired by or for the Government or with funds derived through the Military Assistance Program of the Government or otherwise through the Government.

ASSIGNMENT (Continued)

PRIME CONTRACTOR AND NUMBER: GEO-CENTERS, INC.

SUBCONTRACTOR: _____

APPLICATION FOR: Novel One Step Purification Process for Organophosphorus Hydrolase Enzyme

INVENTOR(S): Vipin K. Rastogi, Tu-Chen Cheng, Joseph J. Defrank

SERIAL NO: 09/603,450

FILING DATE: 6/26/00

Signed for Contractor on 13 Aug 99
DAY MONTH YEAR

Signature of Officer

[Signature]

At Rockville, Montgomery, MD
LOCALITY COUNTY STATE

Charles Blake Sajonia
TYPED NAME

I certify that I am the Secretary of the above-identified Corporation; that the officer who signed this instrument on behalf of the Corporation was then _____ of the Corporation, acting by authority of its governing body and within the scope of its corporate powers.

Signed on: _____
DAY MONTH YEAR

Signature of Secretary

(Corporate Seal)

TYPED NAME

State of Maryland)

ss:

County of Montgomery)

On 13 Aug 99
DAY MONTH YEAR

appeared before me

Charles Blake Sajonia

and

to me well known, and known to be the

Patent Counsel
(TITLE)

and

(TITLE)

of

GEO-CENTERS

_____, a corporation of

MA

(STATE)

, and affixed their names to

the foregoing instrument in my presence, and acknowledged the same to be their and said Corporation's free act and deed.

(SEAL)

[Signature]
Debra Mantley-Spearman

NOTARY PUBLIC

My Commission Expires

My Comm. Exps. 1/23, 2001