501904466 04/30/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Frederick Quinn	05/02/2007
Candace McCombs	05/02/2007
Russell K. Karls	01/06/2010

RECEIVING PARTY DATA

Name:	University of Georgia Research Foundation, Inc.	
Street Address:	Boyd Graduate Studies Research Center	
City:	Athens	
State/Country:	GEORGIA	
Postal Code:	30602-7411	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13435484

CORRESPONDENCE DATA

Fax Number: (612)305-1228 Phone: 6123054723

Email: struehart@mrgiplaw.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US

Mail.

Correspondent Name: Nancy A. Johnson
Address Line 1: 111 3rd Avenue South

Address Line 2: Suite 350

Address Line 4: Minneapolis, MINNESOTA 55401

ATTORNEY DOCKET NUMBER: 235.00770102

NAME OF SUBMITTER: Nancy A. Johnson

Total Attachments: 3

source=235assign#page1.tif source=235assign#page2.tif

source=235assign#page3.tif

PATENT REEL: 028126 FRAME: 0100 1 \$40.00 134354

501904466

ASSIGNMENT

Whereas We, Frederick QUINN and Candace MCCOMBS, with residences and citizenships as indicated below; have made an invention in

MICROBIAL VACCINE AND VACCINE VECTOR

International Application No. PCT/US2006/046832, filed 8 December 2006 U.S. Provisional Patent Application No. 60/781,303, filed 10 March 2006 U.S. Provisional Patent Application No. 60/749,140, filed 9 December 2005

and executed an application for Letters Patent of the United States of America based thereon;

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, we have individually and jointly agreed to assign and transfer and do hereby assign and transfer unto University of Georgia Research Foundation, Inc. ("Company"), a corporation of Georgia, having its principal office at University of Georgia Research Foundation, Inc., Boyd Gradunte Studies Research Center, Athens, GA 30602-7411, its successors and assigns, the entire right, title, and interest in and to said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in saidinvention made by us or any of us or made jointly with others (provided any such improvement is made during, or within one year after the termination of, the employment by the Company of whichever of us, solely or jointly with one or more others, has made the same), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the UnitedStates of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been ormay be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by us or any of us had this assignment and transfer not been made;

We do further agree for ourselves and for our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as we lawfully may, that may be deemed necessary by the Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

And we do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of said applications, to University of Georgia Research Foundation, Inc as the assignee of the entire right, title, and interest therein.

COUNTY OF Athens-Clarke)

On this day of 100 day of 2007, before me personally appeared Frederick QUINN, to me known to be the person described in and who executed the foregoing instrument, and he/she executed the same for the uses and purposes therein set forth.

MY COMMISSION EXPIRES AUGUST 2, 2010

> PATENT REEL: 028126 FRAME: 0101

Assignment International Application No. PCT/US2006/046832	Page 2 of 2
Filed: 8 December 2006 For: MICROBIAL VACCINE AND VACCINE VECTOR	
Candra McCombox 5-2-07	
Name: Candace MCCOMBS Date	***************************************
Address: 155 Pebble Creek Drive, Athens, Georgia 30605, United States of America	
Citizenship: United States of America	
STATE OF GOTGIQ)	
COUNTY OF Athens Clarke)ss.	
On this 20 day of	me known
to be the person described in and who executed the foregoing instrument, and he/she executed the same	for the uses
and purposes therein set forth.	
Landle & Hales	·
Notary Public	
MY COMMISSION EXPIRES	

AUGUST 2, 2010

Page 2 of 2

ASSIGNMENT

Whereas I, RUSSELL K. KARLS, with residence and citizenship as indicated below; have made an invention

MICROBIAL VACCINE AND VACCINE VECTOR

Filed: May 27, 2008

in

Serial No.: 12/095,035

and executed an application for Letters Patent of the United States of America based thereon;

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I have agreed to assign and transfer and do hereby assign and transfer unto UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC. ("Company"), a corporation of GEORGIA, having its principal office at BOYD GRADUATE STUDIES RESEARCH CENTER, ATHENS, GA. 30602-7411, its successors and assigns, my entire right, title, and interest in and to said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in said invention made by me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, my employment by the Company), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me had this assignment and transfer not been made;

I do further agree for myself and for my heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I lawfully may, that may be deemed necessary by the Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

And I do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of said applications, to UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC. as the assignee of the entire right, title, and interest therein.

In witness whereof, I have hereunto signed my name on the day and year set forth below.

Rupill K. Karl) - 6x (D
Name: Russell K. Karls Address: 150 Pine Tops Drive, Athens, GA. 30606 Citizenship: USA	Date 5
STATE OF Georgia	
COUNTY OF U.S.) ss.	
\	

On this 6 day of 00000 20 10, before me personally appeared RUSSELL K. KARLS, to me known to be the person described in and who executed the foregoing instrument, and he/she executed the same for the uses and purposes therein set forth.

MY COMMISSION EXPIRES AUGUST 2, 2010

> PATENT REEL: 028126 FRAME: 0103

RECORDED: 04/30/2012