PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4031058

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	MERGER	
EFFECTIVE DATE:	07/01/2016	

CONVEYING PARTY DATA

Name	Execution Date
PALMER LABS, LLC	06/30/2016

RECEIVING PARTY DATA

Name:	8 RIVERS CAPITAL, LLC
Street Address:	406 BLACKWELL STREET
City:	DURHAM
State/Country:	NORTH CAROLINA
Postal Code:	27701

PROPERTY NUMBERS Total: 3

Property Type	Number	
Application Number:	61799931	
Application Number:	14211698	
Application Number:	15251408	

CORRESPONDENCE DATA

Fax Number: (919)755-2150

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

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 919-755-2100

Email: dgravius@wcsr.com **Correspondent Name:** RYAN W. CAGLE

555 FAYETTEVILLE STREET Address Line 1:

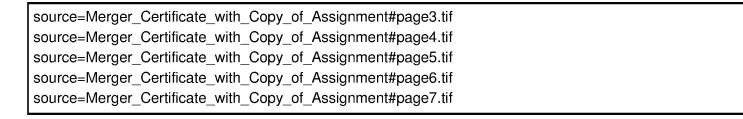
Address Line 2: WOMBLE CARLYLE SANDRIDGE & RICE, LLP

Address Line 4: RALEIGH, NORTH CAROLINA 27601

ATTORNEY DOCKET NUMBER: P62622 1330US.2C1 (0356.3	
NAME OF SUBMITTER:	RYAN W. CAGLE
SIGNATURE:	/ryan w. cagle/
DATE SIGNED:	08/30/2016

Total Attachments: 7

source=Merger Certificate with Copy of Assignment#page1.tif source=Merger_Certificate_with_Copy_of_Assignment#page2.tif



<u>Delaware</u>

The First State

Page 1

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF
DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT
COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"PALMER LABS, LLC", A DELAWARE LIMITED LIABILITY COMPANY,
WITH AND INTO "8 RIVERS CAPITAL, LLC" UNDER THE NAME OF "8
RIVERS CAPITAL, LLC", A LIMITED LIABILITY COMPANY ORGANIZED AND
EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED
AND FILED IN THIS OFFICE ON THE THIRTIETH DAY OF JUNE, A.D.
2016, AT 4:14 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF
THE AFORESAID CERTIFICATE OF MERGER IS THE FIRST DAY OF JULY,
A.D. 2016 AT 12:01 O'CLOCK A.M.

CENTANY'S OFFICE OF THE PROPERTY OF THE PROPER

4543751 8100M SR# 20164734074

You may verify this certificate online at corp.delaware.gov/authver.shtml

Jeffrey W. Hullock, Secretary of State

Authentication: 202599836

Date: 07-01-16

State of Delaware
Secretary of State
Division of Corporations
Delivered 04:14 PM 06/30/2016
FILED 04:14 PM 06/30/2016
SR 20164734074 - File Number 4543751

STATE OF DELAWARE CERTIFICATE OF MERGER OF PALMER LABS, LLC WITH AND INTO 8 RIVERS CAPITAL, LLC

This Certificate of Merger is filed by 8 Rivers Capital, LLC, a Delaware limited liability company (the "Surviving Entity"), in accordance with the provisions of Section 18-209(c) of the Delaware Limited Liability Company Act (the "LLC Act"), for the purpose of merging Palmer Labs, LLC, a Delaware limited liability company (the "Merging Entity," and together with the Surviving Entity, the "Constituent Entities"), with and into the Surviving Entity (the "Merger").

1. The name, jurisdiction of formation, and entity type of the Constituent Entities are:

Name

Jurisdiction of Formation and Entity Type

Palmer Labs, LLC

Pelaware limited liability company

Delaware limited liability company

- 2. An Agreement and Plan of Merger (the "Merger Agreement") has been approved and executed by each of the Constituent Entities in accordance with Section 18-209 of the LLC Act.
- 3. The name of the Surviving Entity is 8 Rivers Capital, LLC.
- The Certificate of Formation of the Surviving Entity as in effect immediately prior to the effective time of the Merger shall be the Certificate of Formation of the Surviving Entity following the Merger and shall not be amended as a result of the Merger.
- 5. The Merger shall be effective at 12:01 a.m. on July 1, 2016.
- 6. The Merger Agreement is on file at the offices of the Surviving Entity located at 406 Blackwell Street, Crowe Building Fourth Floor, Durham, North Carolina 27701.
- 7. A copy of the Merger Agreement will be furnished by the Surviving Entity, on request and without cost, to any member of the Merging Entity or any member of the Surviving Entity.

Dated: June 30, 2016.

8 RIVERS CAPITAL, LLC

Bv:

Title

[Signature Page to Certificate of Merger]



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JULY 17, 2014

PTAS

RYAN W. CAGLE 150 FAYETTEVILLE STREET, SUITE 2100 WOMBLE CARLYLE SANDRIDGE & RICE, LLP RALEIGH, NC 27601 502893804

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 07/16/2014 REEL/FRAME: 033322/0457

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: P62622 1330US.2 (0204.4)

ASSIGNOR:

PALMER, MILES R. DOC DATE: 07/15/2014

ASSIGNEE:

PALMER LABS, LLC 406 BLACKWELL STREET DURHAM, NORTH CAROLINA 27701

APPLICATION NUMBER: 14211698 FILING DATE: 03/14/2014

PATENT NUMBER: ISSUE DATE:

TITLE: LAUNCH VEHICLE AND SYSTEM AND METHOD FOR ECONOMICALLY EFFICIENT

LAUNCH THEREOF

ASSIGNMENT RECORDATION BRANCH PUBLIC RECORDS DIVISION

P.O. Box 1450, Alexandria, Virginia 22313-1450 - WWW.USPTO.GOV PATENT REEL: 039589 FRAME: 0344

COMBINED WORLDWIDE INVENTION ASSIGNMENT AND U.S. DECLARATION (37 CFR 1.63)

WHEREAS, the undersigned (hereinafter collectively referred to as "Assignor") has or may have invented certain inventions and improvements disclosed in the United States patent application entitled "LAUNCH VEHICLE AND SYSTEM AND METHOD FOR ECONOMICALLY EFFICIENT LAUNCH THEREOF" and designated as

- Application No. <u>14/211,698</u>; filed <u>March 14, 2014</u>
- Application claims priority from Application No. 61/799,931, filed March 15, 2013, all applications listed above being hereinafter referred to as the "Application(s)";

WHEREAS, it is agreed that

Palmer Labs, LLC 406 Blackwell Street Durham, NC 27701

(hereinafter referred to as "Assignee"), is entitled to or is desirous of acquiring all right, title and interest related to the same;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor, by these presents, does sell, assign, and transfer unto Assignee the full, exclusive and entire right, title and interest, worldwide: (i) in and to all inventions and improvements disclosed and described in the Application(s); (ii) in and to said Application(s) and any other United States national stage, provisional, non-provisional, divisional, continuation, continuation-in-part, or design patent applications based in whole or in part upon said inventions or improvements and/or claiming priority to said Application(s) (the "U.S. Applications"); (iii) in and to any Patent Cooperation Treaty applications based in whole or in part upon said inventions or improvements and/or claiming priority to said Application(s); (iv) in and to any and all applications for industrial property protection, including without limitation applications for patent, utility model, inventor's certificate, and design, filed or which are hereafter filed in countries outside the United States (the "Foreign Applications") and which

describe in whole or in part said inventions and improvements, said Foreign Applications to be filed and issued in the name of Assignee or its designee insofar as permitted by applicable law; (v) in and to all patents or similar protective rights in the United States or elsewhere which may be granted on the U.S. Applications and Foreign Applications and all reissues, reexaminations, and extensions thereof, any and all such patents or other protective rights to issue in the name of Assignee and for the sole use and behoof of Assignee and its successors and assigns; and (vi) in and to the right to claim any applicable foreign or domestic priority rights arising from or required for any of the aforementioned applications under the terms of any applicable conventions, treaties, statutes, or regulations.

AND, for the same consideration, Assignor agrees to (i) communicate to Assignee, its successors, legal representatives, and assigns, any facts known to Assignor respecting said inventions and improvements or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody said inventions or improvements; (ii) sign or execute all lawful papers, applications, declarations, affidavits, assignments, and rightful oaths that may be requested by Assignee during prosecution or enforcement of any rights related to the inventions and improvements; (iii) testify in any proceedings relating to said inventions or improvements or rights granted therefor; and (iv) generally do everything possible to aid Assignee and its successors, legal representatives and assigns, to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.

Assignor covenants with Assignee, its successors, legal representatives, and assigns, that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned. Assignor further agrees that Assignee, its successors, legal representatives, and assigns, may insert into this Assignment any further text necessary or desirable to define the Applications to which the Assignment pertains for purposes of recordation, and also agrees that the Assignment is effective at least as early as March 15, 2013 the earliest priority date of the Application(s).

<u>U.S. DECLARATION</u>: Assignor intends for this Assignment to serve as a U.S. declaration under 37 CFR 1.63(e)(1). Accordingly, with respect to the U.S. Applications identified herein, each undersigned inventor hereby declares that: (1) the above-identified application was made or authorized to be made by me; (2) I believe that I am the original inventor or an original joint inventor of a claimed invention in the application; and (3) I hereby

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acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

7-15-19	Miles	Selw
Date	MILES R. PALMER	
State of North Carolina		
County of <u>Ducham</u>)		
I, <u>Christina M. Randon</u> , a Nota certify that MILES R. PALMER personally a due execution of the foregoing instrument.		
Witness my hand and official seal, this the _	15th day of July	, 20 <u>\4</u> .
(Official Seal)	Chustna M.	Kaidn
My commission expires <u>DI /08/2019</u>	Notary Public	

