

<b>PATENT ASSIGNMENT COVER SHEET</b>
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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
LANCE P. ENCELL	10/17/2013
MARY HALL	10/17/2013
PAUL OTTO	10/17/2013
GEDIMINAS VIDUGIRIS	10/17/2013
KEITH V. WOOD	10/17/2013
MONIKA G. WOOD	10/17/2013
KRISTOPHER ZIMMERMAN	10/22/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	PROMEGA CORPORATION
<b>Street Address:</b>	2800 WOODS HOLLOW ROAD
<b>City:</b>	MADISON
<b>State/Country:</b>	WISCONSIN
<b>Postal Code:</b>	53711
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16294464
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(608)662-1276
<i>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.</i>	
<b>Phone:</b>	6086621277
<b>Email:</b>	SEFILANDRINOS@CASIMIRJONES.COM
<b>Correspondent Name:</b>	DAVID W. STAPLE
<b>Address Line 1:</b>	2275 DEMING WAY, SUITE 310
<b>Address Line 4:</b>	MIDDLETON, WISCONSIN 53562
<b>ATTORNEY DOCKET NUMBER:</b>	PRMG-33070/US-5/CON
<b>NAME OF SUBMITTER:</b>	DAVID W. STAPLE
<b>SIGNATURE:</b>	/David W. Staple/
<b>DATE SIGNED:</b>	03/06/2019

**Total Attachments: 1**

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### ASSIGNMENT

WHEREAS, WE, **Lance P. Encell, Mary Hall, Paul Otto, Gediminas Vidugiris, Keith V. Wood, Monika G. Wood,** and **Kristopher Zimmerman**, hereinafter referred to as "ASSIGNORS," have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

APPLICATION TITLE: **SYNTHETIC OPLOPHORUS LUCIFERASES WITH ENHANCED LIGHT OUTPUT**

DATE OF FILING: **14-Oct-2013** SERIAL NUMBER: **14/053,252**

WHEREAS, **Promega Corporation**, a corporation having a place of business at **2800 Woods Hollow Road, Madison, Wisconsin 53711-5399**, hereinafter referred to as "ASSIGNEE," is desirous of acquiring the entire right, title and interest in said application and any application relating to the invention, and in any Letters Patent which may be granted on the same;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNORS have sold, assigned and transferred, and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, and ASSIGNEE's successors and assigns, all right, title and interest in and to said application for United States Letters Patent, and any application claiming priority thereto, including any divisions, renewals, continuations in whole or in part, utilities, substitutions, conversions, reissues, or prolongations or extensions thereof, in all countries, said interest to be held and enjoyed by said ASSIGNEE as fully and exclusively as it would have been held and enjoyed by said ASSIGNORS had this assignment and transfer not been made, to the full extent and term of any Letters Patent. We hereby grant permission for the attorney of record to insert the filing information into this agreement.

ASSIGNORS further agree that ASSIGNORS will, without charge to said ASSIGNEE, but at ASSIGNEE's expense, cooperate with ASSIGNEE in the prosecution of said application and/or applications; execute, verify, acknowledge, and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof; and perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain such Letters Patent in any and all countries, and to vest title thereto in said ASSIGNEE, or ASSIGNEE's successors and assigns.

IN TESTIMONY WHEREOF, ASSIGNORS have hereunto signed ASSIGNORS' names to this Assignment on the date indicated below.

Lance P. Encell 10-17-13  
DATE

Mary P. Hall 10/17/13  
DATE

Paul Otto 2013/10/17  
DATE

Gediminas Vidugiris 10/17/13  
DATE

Keith V. Wood 10/17/13  
DATE

Monika G. Wood 10/17/2013  
DATE

Kristopher Zimmerman 10/22/13  
DATE

On this 17<sup>th</sup> & 22<sup>nd</sup> day of October, in the year of 2013, before me, the undersigned Witness, personally appeared the above-named ASSIGNORS, known to me (or proven to me on the basis of satisfactory evidence) to be the persons whose names are subscribed to the within instrument, and acknowledged that they executed the same.

Carolina Rotapuncer  
WITNESS