

06-08-1999



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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of Conveying party(ies)

 SZENT-GYORGYI, Christopher  
 BRYAN, Bruce J.

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

2. Name and address of receiving Party(ies)

 PROLUME, LTD.  
 1085 William Pitt Way  
 Pittsburgh, Pennsylvania 15238

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

3. Nature of conveyance:

☒ Assignment                      \_\_\_ Merger  
 \_\_\_ Security Agreement            \_\_\_ Change of name  
 \_\_\_ Other
Execution Date: Szent-Gyorgyi 5/14/1999, Bryan 4/6/1999

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

 A. Patent Application No.(s):  
 09/277,716

B. Patent No.(s)

Additional numbers attached? \_\_\_ Yes X No

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

 Stephanie L. Seidman  
 HELLER EHRMAN WHITE & McAULIFFE  
 4250 Executive Square, 7th Floor  
 La Jolla, CA 92037
6. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41) \$ 40.00☒ Check enclosed☒ Authorized to charge any underpayment to deposit account8. Deposit account Number: 08-1641

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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.

Stephanie L. Seidman  
 Name of Person Signing  
 Registration No. 33,779

Signature

5/27/1999  
 Date
Total number of pages including cover sheet, attachments, and document: 5

06/02/1999 AMOAHANE 00000054 09277716

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 PATENT  
 REEL: 009997 FRAME: 0824

A S S I G N M E N T

I, CHRISTOPHER SZENT-GYORGYI, a citizen of the United States of America, residing at 719 Duncan Avenue #920, Pittsburgh, Pennsylvania 15237, U.S.A., for good and valuable consideration, receipt of which is hereby acknowledged, have assigned and do hereby assign to **PROLUME, LTD.**, a corporation organized under the laws of the State of Delaware, with its principal place of business in Pittsburgh, Pennsylvania, U.S.A., its successors, assigns and legal representatives, the entire right, title and interest in and to U.S. Patent Application Serial No. 09/277,716, and the invention disclosed therein invented by me, except for that subject matter related to bioluminescent novelty items, and entitled:

LUCIFERASES, FLUORESCENT PROTEINS, NUCLEIC ACIDS ENCODING THE  
LUCIFERASES AND FLUORESCENT PROTEINS AND THE USE THEREOF IN  
DIAGNOSTICS, HIGH THROUGHPUT SCREENING AND NOVETLY ITEMS

which was filed on March 26, 1999, and in and to all Convention and Treaty rights of all kinds, in all countries throughout the world, for all such subject matter, including the right to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties or otherwise and, in and to, all Letters Patent to be obtained for said subject matter by the above provisional application or any continuation, division, continuation-in-part, extension, conversion to 35 USC 111(b) or substitute thereof, and any reissue, reexamination or extension of said Letters Patent.

I agree to do all acts and sign all documents necessary to secure, defend and maintain all said Letters Patent and rights, including any continuations, divisionals, reissues, renewals and extensions, and request issuance of all said Letters Patent to the above Assignee in accordance with this assignment.

Date: May 14 1999

Chris Szent-Gyorgyi  
CHRISTOPHER SZENT-GYORGYI

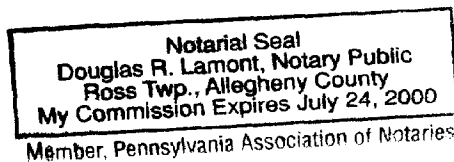
STATE OF PA )  
 ) S.S.  
COUNTY OF ALLEGHENY )

I hereby certify that before me, a notary public for the State of PENNSYLVANIA, personally appeared CHRISTOPHER SZENT-GYORGYI, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed it.

WITNESS my hand and official seal.

Date: 5/14/99

[Signature]  
Notary Public



**A S S I G N M E N T**

I, BRUCE J. BRYAN, a citizen of the United States of America, residing at 716 N. Arden Drive, Beverly Hills, California 90210, U.S.A., for good and valuable consideration, receipt of which is hereby acknowledged, have assigned and do hereby assign to **PROLUME, LTD.**, a corporation organized under the laws of the State of Delaware, with its principal place of business in Pittsburgh, Pennsylvania, U.S.A., its successors, assigns and legal representatives, the entire right, title and interest in and to U.S. Patent Application Serial No. 09/277,716, and the invention disclosed therein invented by me except for that subject matter related to bioluminescent novelty items, and entitled:

**LUCIFERASES, FLUORESCENT PROTEINS, NUCLEIC ACIDS ENCODING THE  
LUCIFERASES AND FLUORESCENT PROTEINS AND THE USE THEREOF IN  
DIAGNOSTICS, HIGH THROUGHPUT SCREENING AND NOVELTY ITEMS**

which was filed on March 26, 1999, and in and to all Convention and Treaty rights of all kinds, in all countries throughout the world, for all such subject matter, including the right to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties or otherwise and, in and to, all Letters Patent to be obtained for said subject matter by the above application or any continuation, division, continuation-in-part, extension, conversion to 35 USC 111(b) or substitute thereof, and any reissue, reexamination or extension of said Letters Patent.

Date: APRIL 6<sup>TH</sup> 1999

**PATENT**  
**REEL: 009997 FRAME: 0828**