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.

2. Name and address of receiving Party(ies)
   PROLUME, LTD.
   1085 William Pitt Way
   Pittsburgh, Pennsylvania 15238

3. Nature of conveyance:
   - X Assignment
   - ___ Security Agreement
   - ___ Merger
   - ___ Change of name
   - ___ Other

   Execution Date: Szent-Gyorgyi 5/14/1999, Bryan 4/6/1999

4. Application number(s) or patent number(s):
   09/609,107

5. Name and address of party to whom correspondence concerning document should be mailed:
   Stephanie L. Seidman
   HELLER EHRMAN WHITE & McCAULIFFE
   4250 Executive Square, 7th Floor
   La Jolla, CA 92037

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) $ 40.00
   - X Check enclosed
   - X Authorized to charge any underpayment to deposit account

8. Deposit account Number: 08-1641

DO NOT USE THIS SPACE

   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
ASSIGNMENT

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 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 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

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

Notarial Seal
Douglas R. Lamont, Notary Public
Ross Twp., Allegheny County
My Commission Expires July 24, 2000
Member, Pennsylvania Association of Notaries
ASSIGNMENT

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 Pittsburg, 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.

-1 of 2-
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: April 6th 1999

[Signature]

BRUCE J. BRYAN

STATE OF CALIFORNIA )
 ) SS.
COUNTY OF LOS ANGELES)

On 4-6-99, before me, the undersigned, a notary public for the State of California, personally appeared BRUCE J. BRYAN, 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 to me that he executed the same in his authorized capacity and that by his signature on the instrument the person or the entity upon behalf of which the person acted executed the instrument.

WITNESS my hand and official seal.

[Stamp]

JUAN C. PONCE
Comm. #1106019
NOTARY PUBLIC - CALIFORNIA
Los Angeles County
My Comm. Expires July 16, 2000