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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):  
Michael W. Reed, Eugeny A. Lukhtanov, Alexander A. Gall, Robert O. Dempcy and Nicolaas M.J. Vermeulen

2. Name and address of receiving party(ies)  
Name: Epoch Biosciences, Inc. G. 3001

Additional name(s) of conveying parties attached?  Yes  No.

Internal Address: \_\_\_\_\_

Street Address: 21720 -23rd Dr., SE, #150

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other: \_\_\_\_\_

City: Bothell State: WA ZIP: 98021

Additional names and addresses attached?  Yes  No

Execution Date: 08/08/01, 08/08/01, 08/16/01, 08/08/01 and 08/08/01

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): 09/876,830

B. Patent No(s): \_\_\_\_\_

Additional numbers attached?  Yes  No

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

Name: William B. Kezer  
TOWNSEND AND TOWNSEND AND CREW LLP  
Two Embarcadero Center, 8<sup>th</sup> Floor  
San Francisco, California 94111-3834  
(415) 576-0200

6. Total number of applications and patents involved 1

7. Total fee (37 CFR 3.41): -----\$40.00

Enclosed  
 Authorized to be charged to deposit account

8. Deposit account number: 20-1430

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.  
*To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true of copy of the original document.*

William B. Kezer  
Name of Person Signing  
Atty. Reg. No. 37,369

William B. Kezer  
Signature

8-27-01  
Date

Total number of pages including cover sheet, attachments and document 4

Mail documents to be recorded with required cover to:  
Commissioner of Patents and Trademarks, Box Assignments  
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09/10/2001 LWELLER 00000154 201430 09876830

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PATENT  
REEL: 012139 FRAME: 0816

**ASSIGNMENT OF PATENT APPLICATION**

JOINT

WHEREAS, **Michael W. Reed**, of **3575 NE 180th Street, Seattle, WA 98155**; **Eugeny A. Lukhtanov**, of **817 205th Street SE, Bothell, WA 98012**; **Alexander A. Gall**, of **1971 10th Drive SE, Bothell, WA 98012**; **Robert O. Dempcy**, of **11421 NE 115th Court, Kirkland, WA 98033**; and **Nicolaas M.J. Vermeulen**, of **19334 196th Avenue, NE, Woodinville, WA 98072**, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention:           **Fluorescent Quenching Detection Reagents and Methods**

Date(s) of execution of Declaration: **08/08/01, 08/08/01, 08/16/01, 08/08/01 and 08/08/01**

Filing Date:                 **June 6, 2001**

Application No.:           **09/876,830**

WHEREAS, **Epoch Biosciences, Inc.**, a corporation of the state of Delaware, located at **21720 - 23rd Dr., SE, #150, Bothell, WA, 98021**, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;


For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request **Townsend and Townsend and Crew LLP**, Two Embarcadero Center, 8<sup>th</sup> Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

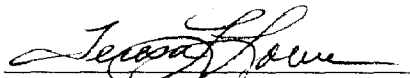
IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 8/8/01


  
Michael W. Reed

SIGNATURE WITNESSED BY:

(1) Date: 8/8/01

  
Signature of Witness 1

(2) Date: 8/8/01


  
Signature of Witness 2

Dated: 8-8-01

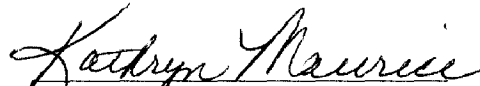
  
Eugeny A. Lukhtanov

SIGNATURE WITNESSED BY:

(1) Date: 8/8/01

  
Signature of Witness 1

(2) Date: 8/8/01

  
Signature of Witness 2

Dated: 8/16/01

Alexander A. Gall  
Alexander A. Gall

SIGNATURE WITNESSED BY:

(1) Date: 8/16/01

Teresa Spive  
Signature of Witness 1

(2) Date: 8/16/01

Kathryn Maurice  
Signature of Witness 2

Dated: 8/8/01

Robert O. Dempcy  
Robert O. Dempcy

SIGNATURE WITNESSED BY:

(1) Date: 8/8/01

Teresa Spive  
Signature of Witness 1

(2) Date: 8/8/01

Kathryn Maurice  
Signature of Witness 2

Dated: 08/08/01

Nicolaas M.J. Vermeulen  
Nicolaas M.J. Vermeulen

SIGNATURE WITNESSED BY:

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(2) Date: 8/8/01

Kathryn Maurice  
Signature of Witness 2

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