

12-19-2000



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RECORDATION FORM COVERSHEET

PATENTS

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

1. Name and address of conveying party:

Bio-Rad Laboratories, Inc.,
a Delaware corporation
1000 Alfred Nobel Drive
Hercules, CA 94547

2. Name and address of receiving party:

ASTI Operating Company, Inc.
a Delaware corporation
520 Clyde Avenue
Mountain View, CA 94043

3. Nature of conveyance

Grant of entire Patent right, title and interest

Execution Date: July 31, 2000

4. Application numbers and patent numbers:

A. Patent Application Nos.

B. Patent Registration Nos.

4,710,642; 5,241,369; 5,703,692; & 5,867,276

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

Brian Hutchings, Esq
O'Melveny & Myers LLP
153 East 53rd Street
New York, NY 10022

6. Total number of applications and registrations involved.

4

7. Total fee

\$160.00 (Enclosed)

8. Deposit Account Number:

N/A

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 documents.

Brian Hutchings
Name of Person Signing

Brian Hutchings
Signature

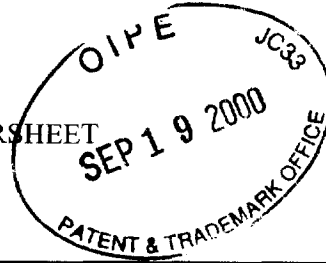
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TOTAL NUMBER OF PAGES COMPRISING COVER SHEET: 4

09-25-2000



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9 19-00

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TOTAL NUMBER OF PAGES COMPRISING COVER SHEET: 4

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PATENT
REEL: 011333 FRAME: 0321

ASSIGNMENT OF PATENTS AND PATENT APPLICATIONS

This Assignment of Patents and Patent Applications ("Assignment") made by Bio-Rad Laboratories, Inc., a Delaware corporation ("Assignor"), having a business address at 1000 Alfred Nobel Drive Hercules, California, to ASTI Operating Company, Inc., a Delaware corporation ("Assignee"), is made on and effective as of July 31st, 2000.

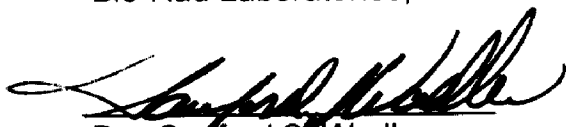
WHEREAS, Assignor is the owner of the right, title and interest in and to certain patents and patent applications listed on Schedule 1 annexed hereto (collectively referred to as the "Patents"); and

WHEREAS, Assignee desires to acquire all of Assignor's right, title, and interest in and to the Patents;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby sells, assigns and transfers to Assignee its entire right, title and interest in and to the Patents in the United States and foreign countries, including all reissues, divisions, continuations and extensions of the Patents, all rights of action arising from the Patents, all claims for damages by reason of past infringement of the Patents and the right to sue and collect damages for such infringement, to be held and enjoyed by the Assignee for its own use and benefit and for its successors and assigns.

IN WITNESS WHEREOF, Assignor and Assignee have executed this Assignment on the dates set forth below.

Assignor:
Bio-Rad Laboratories, Inc.

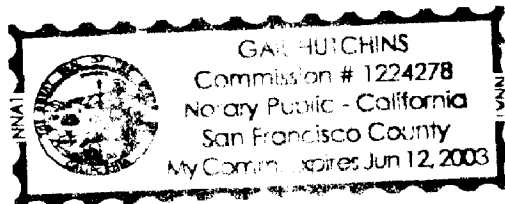
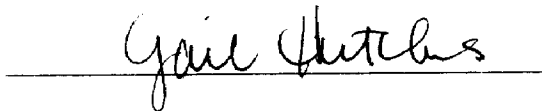


By: Sanford S. Wadler
Title: Vice President and Secretary

State of California
County of SF

On 7/28 before me, Gail Hutchins, personally appeared Sanford Wadler personally known to me OR proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



Assignee:
ASTI Operating Company, Inc.

Bruce Rhine

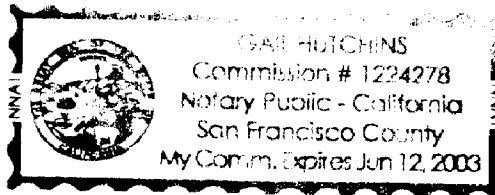
By:
Title:

State of California)
County of SF)

On 7/28 before me, Gail Hutchins, personally appeared Bruce Rhine, personally known to me OR proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal:

Gail Hutchins



SCHEDULE 1

TITLE	PATENT/ APPLICATION NO.	DATE ISSUED OR FILED
Optical scatterometer having improved sensitivity and bandwidth	US 4,710,642	12/01/87
Two-dimensional optical scatterometer apparatus and process	US 5,241,369	08/31/93
Lens scatterometer system employing source light beam scanning means	US 5,703,692	12/30/97
Method for broad wavelength scatterometry	US 5,867,276	02/02/99
Method and apparatus for mapping semiconductor materials	GB 2,276,462	01/22/97
Method and apparatus for mapping semiconductor materials	PCT GB94/00303	3/23/94
Method and apparatus for mapping semiconductor materials	Japan App. No. 520829/94	3/23/94