

Form PTO-1595

U S Department of Commerce

RECORDATION FORM COVER SHEET **PATENTS ONLY**

Docket No. 64693-110

To the Hon. Commissioner of Patents & Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Eduardo H. Rubinstein; Oscar U. Scremin; Daniel P. Holschneider,
Jean-Michel I. Maarek

Additional name of conveying party attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name Alfred E. Mann Institute for Biomedical Engineering at
the University of Southern California

Internal Address: _____

Street Address: 1042 Downey Way / DRB B21City: Los Angeles State CA ZIP 90089-1112Additional name(s) and address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger☐ Security Agreement ☐ Change of Name☐ Other _____

Execution Date: August 25, 2004 (Rubinstein); September 27,
2004 (Holschneider & Maarek); October 4, 2004 (Scremin)

4. Application number(s) or patent numbers: 10/865,629 filing date: June 10, 2004

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

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name Marc E. BrownMcDermott, Will & EmeryInternal Address: 34th FloorStreet Address: 2049 Century Park EastCity: Los Angeles State CA ZIP 90067

6. Total number of applications and
patents involved: 1

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

☐ Enclosed☒ Please charge to deposit account

8. Deposit Account number:

501946

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

DO NOT USE THIS SPACE

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.

Marc E. Brown

Name of Person Signing

Signature

October 5, 2004

Date

Total number of pages including cover sheet, attachments, and document: 5

CH \$40.00 601946 10866629

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Form PTO-1593

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Signature

October 5, 2004

Date

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ASSIGNMENT

WHEREAS, We, Eduardo H. Rubinstein, Oscar U. Scremin, Daniel P. Holschneider, and Jean-Michel I. Maarek, the undersigned inventors (ASSIGNORS), have invented "Measurement of Cardiac Output and Blood Volume by Noninvasive Detection of Indicator Dilution," the specification of which was filed as a continuation-in-part patent application on June 10, 2004 and assigned application serial number 10/865,629. This application is a continuation-in-part of United States Patent No. 6,757,554, which claims priority to U.S. provisional application serial number 60/292,580, filed May 22, 2001; each of us has executed the application concurrently with executing this assignment; we are the joint owners of this invention and improvements; and

WHEREAS, Alfred E. Mann Institute for Biomedical Engineering at the University of Southern California, (ASSIGNEE) is a corporation organized and existing under the laws of Delaware having a place of business at 1042 Downey Way, DRB B21, Los Angeles 90089-1112. ASSIGNEE desires to acquire the entire right, title and interest in and to the inventions, applications and letters patent to be granted and issued for the inventions and applications;

WHEREAS, ASSIGNEE desires to acquire the entire right, title and interest in and to the Invention and Application and to all patents based on the Application;

NOW, THEREFORE, for valuable consideration, the receipt and legal sufficiency of which ASSIGNORS acknowledge, ASSIGNORS have and hereby do assign and transfer to ASSIGNEE, its successors and assigns, the entire right, title and interest in and to:

1. The Invention;
2. The Application;
3. All applications based on or claiming priority from the Application, including all divisionals and continuations ("Application Family");
4. All patents which may be granted on the Invention, Application and Application Family by the United States of America, its territories and possessions, and by all foreign countries, including all priority rights and all reissues thereof ("Patents"); and
5. The right to sue for past infringement of the Invention, Application, Application Family and Patents.

ASSIGNORS agree, at the request of ASSIGNEE, to sign any and all papers reasonably needed to file and prosecute the Application and Application Family, to obtain the Patents, and to perfect and vest in ASSIGNEE the entire right, title and interest in the Invention, Application, Application Family and Patents. ASSIGNORS also agree to provide assistance that is reasonably needed to prepare and prosecute the Application and Application Family.

ASSIGNORS authorize and empower ASSIGNEE, its successors and assigns, to apply for and obtain, in its own name, the Application, Application Family and Patents before competent International Authorities, including the World Intellectual Property Organization and in any and all foreign countries in which applications for patents can be made or patents obtained.

Dated: Aug. 25, 2004
Eduardo H. Rubinstein
Name: Eduardo H. Rubinstein, M.D., Ph.D.
Address: 601 Lorna Lane
Los Angeles, California 90049

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

On Aug 25, 2004 before BERN D O'TOOLE personally appeared Eduardo H. Rubinstein, ☐ 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.
Bern D. O'Toole
Notary Public

(SEAL)



Dated: _____, 2004
Name: Oscar U. Scremin, M.D., Ph.D.
Address: 2824 Westwood Blvd.
Los Angeles, California 90064-4115

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

On _____, 2004 before _____ personally appeared Oscar U. Scremin, ☐ 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.

Notary Public

(SEAL)

Dated: _____, 2004

Name: Eduardo H. Rubinstein, M.D., Ph.D.
Address: 601 Loma Lane
Los Angeles, California 90049

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

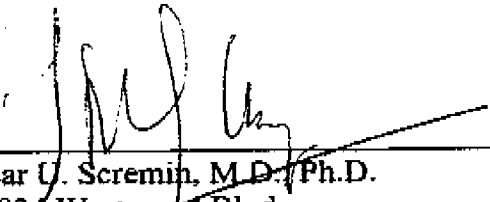
On _____, 2004 before _____ personally appeared Eduardo H. Rubinstein, ☐ personally known to me or ☐ proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their 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.

Notary Public

(SEAL)

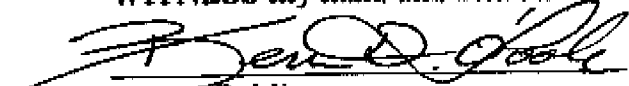
Dated: 10/11/ 2004


Name: Oscar U. Scremin, M.D., Ph.D.
Address: 2824 Westwood Blvd.
Los Angeles, California 90064-4115

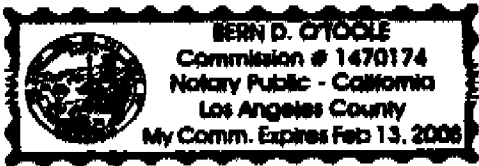
STATE OF CALIFORNIA)
) ss.
COUNTY OF LOS ANGELES)

On OCT. 1, 2004 before BERN D. O'TOOLE personally appeared Oscar U. Scremin, ☐ 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.


Notary Public

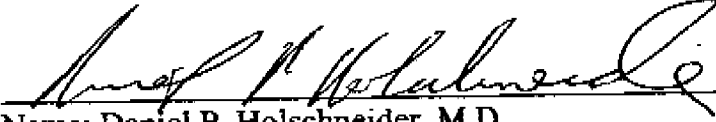
(SEAL)



Serial No 10/865,629

Docket No. 64693-110

Dated: 9/27, 2004


Name: Daniel P. Holschneider, M.D.
Address: 931 Chantilly Road
Los Angeles, California 90077

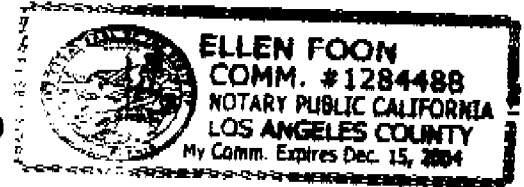
STATE OF CALIFORNIA)
) ss.
COUNTY OF LOS ANGELES)

On 9/27, 2004 before Ellen Foon personally appeared Daniel P. Holschneider, ☐ 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.

Ellen Foon
Notary Public

(SEAL)



Dated: 09/27, 2004


Name: Jean-Michel I. Maarek, Ph.D.
Address: 30220 Via Borica
Rancho Palos Verdes, California 90275

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

On 9/27, 2004 before Ellen Foon personally appeared Jean-Michel I. Maarek, ☐ 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.

Ellen Foon
Notary Public

(SEAL)

