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U.S. DEPARTMENT OF COMMERCE

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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):

**Yasuhisa FUKUI**  
**Satoshi NAGATA**  
**Ryuichi SHIRAI**

5.20.99

2. Name and address of receiving party(ies):

Name: **Medical & Biological Laboratories Co., Ltd.**

Address: **Sumitomo-Shoji Marunouchi Bldg.,**

**5-10, Marunouchi 3-chome, Naka-ku**

**Nagoyashi**

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

City: **Aichi**

State/Prov.:

Country: **Japan**

ZIP: **460**

Execution Date: **March 8, 1999**

Additional name(s) & address(es)

☒ Yes ☐ No

4. Application number(s) or registration numbers(s):

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

Patent Application No.

Filing date

**09/257,069**

**February 24, 1999**

B. Patent No.(s)

**06-01-1999**



**101051088**

Additional numbers

☐ Yes ☒ No

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

Name: **Peter F. Corless**

Registration No. **33,860**

Address: **Dike, Bronstein, Roberts & Cushman**

**130 Water Street**

City: **Boston**

State/Prov.: **MA**

Country: **U.S.A.**

ZIP: **02109**

6. Total number of applications and patents involved:

**1**

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

☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account

☐ Authorized to be charged to deposit account

8. Deposit account number:

**04-1105**

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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.

**Peter F. Corless**

Name of Person Signing

Signature

**5/17/99**

Date

Total number of pages including cover sheet, attachments, and

**4**

PATENT

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## 1. Name of conveying party(ies):

**Yasuhisa FUKUI**  
**Satoshi NAGATA**  
**RYUICHI SHIRAI**

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ OtherExecution Date: **March 8, 1999**

## 2. Name and address of receiving party(ies):

Name: **Yasuhisa FUKUI**Address: **5-7-6 Kichijouji Kita-cho****Musashino-shi**City: **Tokyo** State/Prov.: \_\_\_\_\_Country: **JAPAN** ZIP: **180-0001**

Additional name(s) &amp; address(es)

☒ Yes ☐ No

## 4. Application number(s) or registration numbers(s):

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

Patent Application No.

Filing date

B. Patent No.(s)

**09/257,069****February 24, 1999**

Additional numbers

☐ Yes ☒ No

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

Name: **Peter F. Corless**Registration No. **33,860**Address: **Dike, Bronstein, Roberts & Cushman****130 Water Street****Boston, MA 02109**City: **Boston** State/Prov.: **MA**Country: **U.S.A.** ZIP: **02109**

## 6. Total number of applications and patents involved:

**1**7. Total fee (37 CFR 3.41):.....\$ **40.00**☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☐ Authorized to be charged to deposit account

## 8. Deposit account number:

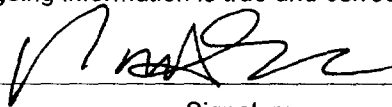
**04-1105**

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Name of Person Signing



Signature

**5/17/99**

Date

**4**

Total number of pages including cover sheet, attachments, and

**PATENT****REEL: 009979 FRAME: 0637**

**ASSIGNMENT**

WHEREAS, I, Yasuhisa FUKUI, inventor residing at 5-7-6 Kichijouji Kita-cho, Musashino-shi Tokyo 180-0001 JAPAN; and I, Satoshi NAGATA, inventor residing at 3-28-24-503 Takaido Higashi, Suginami-ku, Tokyo 168-0072 Japan, and I, Ryuichi SHIRAI, inventor residing at 13-2-103 Shita-machi, Isogo-ku, Yokohama-shi Kanagawa 235-0004 Japan (hereinafter referred to as "Assignors"), have invented certain new and useful improvements in "Monoclonal Antibody Recognizing Phosphatidylinositol-3,4,5-Triphosphate", for which an application for United States Letters Patent with the same title shall be filed with the United States Patent and Trademark Office, under application number 09/257,069 and a filing date of February 24, 1999, claiming priority from Japanese application 10-252921 filed September 7, 1998, and

WHEREAS, Medical & Biological Laboratories Co., Ltd., a Japanese Corporation, located at Sumitomo-Shoji Marunouchi Bldg., 5-10, Marunouchi 3-chome, Naka-ku, Nagoya-shi, AICHI 460 Japan, and Yasuhisa FUKUI, residing at the above-listed address, (hereinafter referred to as the "Assignees"), are desirous of acquiring the entire right, title and interest in and to the same invention, and in and to the said application, and any Letters Patent that may issue thereon;

NOW, THEREFORE, TO ALL WHOME IT MAY CONCERN, be it known that for and in consideration of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, and transferred, and does hereby sell, assign and transfer to the Assignees, its successors and assigns, their entire right, title and interest for the United States in and to the said invention and in and to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, in whole or in part, re-examinations, and extensions thereof, and all applications claiming priority therefrom; and the Assignors hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as their interest is concerned, to the Assignees; to have and to hold for the sole and exclusive use and benefit of the Assignees, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignors would hold and enjoy if this Assignment had not been made.

The Assignors also have sold, assigned, and transferred, and do hereby sell, assign and transfer to the Assignees, its successors and assigns, their entire right, title and interest in and to the invention disclosed in said application, in all countries of the world foreign to the United States, including the right to file applications and obtain patents for said invention in its own name in said countries and including all rights of priority in said countries under the terms of any applicable international convention; to have and to hold for the sole and exclusive use and benefit of the Assignees, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignors would hold and enjoy if this Assignment had not been made.

The Assignors further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights, and also agree, at the request of the Assignees, to testify in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid said Assignees, its successors and assigns, to obtain, maintain and enforce patent protection for said invention in all countries.

The Assignors also hereby grant the law firm of Dike, Bronstein, Roberts & Cushman LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this documents.

IN WITNESS WHEREOF, the Assignors have caused this Assignment to be executed.

Dated this 5 day of March, 1999.

Yasuhisa FUKUI  
Yasuhisa FUKUI

Dated this 8 day of March, 1999.

Satoshi NAGATA  
Satoshi NAGATA

Dated this 8 day of March, 1999.

Ryuichi SHIRAI  
Ryuichi SHIRAI

Witness: Emi Nakao  
Print or type name: Emi Nakao

Witness: Yumiko Kido  
Print or type name: Yumiko Kido