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To the Director of the U.S. Patent and Trademark Office

ments or the new address(es) below.

1. Name of conveying party(ies):

Takaji WAKITA (1/31/2007), Takanobu KATO
(1/31/2007), Tomoko DATE (1/31/2007), Michiko
MIYAMOTO (1/31/2007),

Additional name(s) of conveying party(ies) attached? ☒ Yes ☐ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): in parentheses after inventor name

☒ Assignment ☐ Merger ☐ Change of Name

☐ Security Agreement ☐ Joint Research Agreement

☐ Government Interest Assignment

☐ Executive Order 9424, Confirmatory License

☐ Other

2. Name and address of receiving party(ies)

Name: Tokyo Metropolitan Organization for Medical Research

Internal Address:

Street Address:

8-1, Nishishinjuku 2-chome Shinjuku-ku
Tokyo
163-8001
JAPAN

City:

State:

Country: Zip:

Additional name(s) & address(es) attached? ☒ Yes ☐ No

4. Application or patent number(s):

A. Patent Application No.(s)

NEW

☒ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached?

☐ Yes ☒ No

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

Name: Gerald M. Murphy, Jr.
BIRCH, STEWART, KOLASCH & BIRCH, LLP

Internal Address: Atty. Dkt.: 1254-0339PUS1

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6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card
☐ Authorized to be charged to deposit account
☒ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

- a. Credit Card Last 4 Numbers _____
Expiration Date _____
b. Deposit Account Number _____
Authorized User Name _____

9. Signature:

32868

Gerald M. Murphy, Jr. - 28,977

Name of Person Signing

February 22, 2007

Date

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Total number of pages including cover sheet, attachments, and documents: 4 (40.00 OP)

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Form PTO-1595

RECORDATION FORM COVER SHEET
(continued)

Additional Conveying Party(ies)/Execution Date(s) (1. Continued):

Ralf BARTENSCHLAGER (1/23/2007), Jun-ichi TANABE (1/31/2007), and Saburo SONE (1/31/2007)

Additional Assignees (2. Continued):

Assignee Name: TORAY INDUSTRIES, INC.

Internal Address:

Street Address: 1-1, Nihonbashi-Muromachi 2-chome, Chuo-ku
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103-8666
JAPAN

City: _____ State: _____ Country: _____ Zip: _____

Assignee Name: _____

Internal Address:

Street Address:

City: _____ State: _____ Country: _____ Zip: _____

Assignee Name: _____

Internal Address:

Street Address:

City: _____ State: _____ Country: _____ Zip: _____

Additional Applications and/or Patents (4. Continued):

Additional Patent Application Numbers

4A. Continued:

Additional Patent Numbers

4B. Continued:

Additional numbers attached?

☐

Yes

☐

No

Attorney's Docket No.: 1254-0339PUS1

Assignment of Application

I(We), _____

Takaji WAKITA of 5-17-205, Narimasu 4-chome, Itabashi-ku, Tokyo 175-0094 Japan,
Takanobu KATO of Eminence-Ishikawabashi 206, 1-41, Shogetsu-cho, Mizuho-ku,
 Nagoya-shi, Aichi 467-0004 Japan, **Tomoko DATE** of Terrace-Shinjo 303, 13-5,
 Shinjo 3-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-0044 Japan,
Michiko MIYAMOTO of Sunrise-Hill 7-202, 32-1, Honshuku-cho 1-chome, Fuchu-shi,
 Tokyo 183-0032 Japan, **Ralf BARTENSCHLAGER** of Eichenweg 16, Schriesheim 69198
 Germany, **Jun-ichi TANABE** of 9-5-101, Hananoki, Fujisawa-shi, Kanagawa 251-0874 Japan
 and **Saburo SONE** of 1120-3, Yoshida-cho, Totsuka-ku, Yokohama-shi, Kanagawa
 244-0817 Japan _____, respectively,

have invented certain new and useful improvements in: _____
MODIFIED HUMAN HEPATITIS C VIRUS GENOMIC RNA THAT CAN BE
AUTONOMOUSLY REPLICATED

for which an application for Letters Patent was executed on _____
 (Application No. NEW, filed 02/22/07), and

WHEREAS, **TOKYO METROPOLITAN ORGANIZATION FOR MEDICAL**
RESEARCH and TORAY INDUSTRIES, INC.

(hereinafter referred to as "ASSIGNEE")having a place of business at: _____
8-1, Nishishinjuku 2-chome, Shinjuku-ku, Tokyo 163-8001 Japan and
1-1, Nihonbashi Muromachi 2-chome, Chuo-ku, Tokyo 103-8666 Japan

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any
 Letters Patent that may be granted therefore in the United States and its territorial possessions and
 in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt
 whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these
 presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said
 invention in the United States and its territorial possessions and in all foreign countries and the
 entire right, title and interest in and to any and all Letters Patent which may be granted therefore
 in the United States and its territorial possessions and in any and all foreign countries and in and to
 any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its
 territorial possessions and any official of any and all foreign countries to issue any and all of said
 Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and
 interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors
 and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and
 entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its legal representatives and assigns covenant and any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of **BIRCH, STEWART, KOLASCH & BIRCH, LLP** of **8110 Gatehouse Road, Suite 100 East, Falls Church, Virginia 22042-1248 U.S.A.** the power to insert on this assignment any further identification, including the application number and filing date, 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 document.

Date: January 31, 2007 Takaji WAKITA
(Signature of inventor) **Takaji WAKITA**

Date: January 31, 2007 Takanobu KATO
(Signature of inventor) **Takanobu KATO**

Date: January 31, 2007 Tomoko DATE
(Signature of inventor) **Tomoko DATE**

Date: January 31, 2007 Michiko MIYAMOTO
(Signature of inventor) **Michiko MIYAMOTO**

Date: January 28th, 2007 Ralf BARTENSCHLAGER
(Signature of inventor) **Ralf BARTENSCHLAGER**

Date: January 31, 2007 Jun-ichi TANABE
(Signature of inventor) **Jun-ichi TANABE**

Date: January 31, 2007 Saburo SONE
(Signature of inventor) **Saburo SONE**