

Form **PTO-1595** (Rev. 06/04)
OMB No. 0651-0027 (exp. 6/30/2005)

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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

Hioraki IWAKI and Yoshie HASEGAWA

Execution Date(s): January 14, 2003

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: National Research Council of Canada

Internal Address: _____

Street Address: 1200 Montreal Road

Building M-58, Room EG12

City: Ottawa

State: Ontario

Country: Canada Zip: K1A 0R6

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

4. Application number(s) or patent number(s):

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

A. Patent Application No.(s)

11/727,730

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

OGILVY RENAULT LLP

1981 McGill College Avenue,
Suite 1600
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Agent Docket No.: 2139-16US-1 CC/iw

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)

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b. Deposit Account Number: 19-5113

Authorized User Name Ogilvy Renault LLP

9. Signature:



Signature

Christian Cawthorn, Reg. No. 47,352

Name of Person Signing

April 25, 2007

Date

Total number of pages including cover sheet, attachments, and documents:

3

Documents to be recorded (including cover sheet) should be faxed to (703)308-5995, or mailed to:
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CH \$40.00 195113 11727730

**ASSIGNMENT OF INVENTIONS AND OTHER
INTELLECTUAL PROPERTY**

Date: January 9, 2003

- WHEREAS** Peter Lau, Hiroaki Iwaki and Yoshie Hasegawa have invented certain improvements in GENE ENCODING CYCLODODECANONE MONOOXYGENASE and CLONING, SEQUENCING AND EXPRESSION OF A COMAMONAS CYCLOPENTANONE 1,2-MONOOXYGENASE-ENCODING GENE IN ESCHERICHIA COLI and described in patent applications executed on September 19, 2001 (IPSO 11313) and July 18, 2001 (IPSO 11167) (hereinafter referred to as the "Inventions"); and
- WHEREAS** Hiroaki Iwaki and Yoshie Hasegawa work for the Kansai University, Department of Biotechnology, Faculty of Engineering and High Technology Research Center, Suita, Osaka 564-8680, Japan ; and
- WHEREAS** Peter Lau has assigned his entire right, title and interest in and to said inventions to the NATIONAL RESEARCH COUNCIL OF CANADA, 1200 Montreal Road, building M-58, room EG-12, Ottawa, Ontario, Canada K1A 0R6 (hereinafter referred to as the "Assignee"); and
- WHEREAS** the Assignee is desirous of acquiring the entire right, title and interest in and to said inventions, in and to any and all patents to be obtained therefore and in and to any other inventions or other intellectual property pertaining to above inventions now existing or to be developed in the continuing collaboration between the Inventors;

NOW, THEREFORE, in consideration of one dollar (\$1.00) and other valuable consideration, the receipt of which is hereby acknowledged, Hiroaki Iwaki, Yoshie Hasegawa and the Kansai University by these presents do hereby sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in and to the Inventions, as described in the aforesaid applications, in any form or embodiment thereof, and in and to the aforesaid applications; and in and to any applications filed in any foreign country based thereon, including the right to file said foreign applications under the provision of the International Convention; also the entire right, title and interest in and to any and all patents, reissues or extensions thereof to be obtained in any country upon said Inventions, and any divisional, continuation, continuation-in-part, substitute applications or supplementary disclosures which may be filed upon said Inventions, in any country; and also the entire right, title and interest in and to any and all other inventions or other intellectual property pertaining to the Inventions now existing or to be developed in the continuing collaboration between the Inventors, and any and all patent applications and patents filed or obtained upon said inventions.

Hiraki Iwaki, Yoshie Hasegawa and the Kansai University further agree, without any payment to said Assignee other than expenses incurred by them, to communicate to said Assignee, its representatives or agents, any facts relating to the Inventions, including evidence for interference purposes or for any other proceedings, whenever requested; testify in any interference, litigation or other proceedings, whenever requested; and execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective, and likewise make these provisions binding upon their legal heirs, legal representatives, administrators and assigns.

IN WITNESS WHEREOF, Hiroaki Iwaki, Yoshie Hasegawa, the Kansai University and the Assignee have executed this assignment as follows.

A. Nagashiki
Witness
Ayako Nagashiki

Hiroaki Iwaki
Hiroaki Iwaki
14/01/03
Date

A. Nagashiki
Witness
Ayako Nagashiki

Y. Hasegawa
Yoshie Hasegawa
14/01/03
Date

Yumiko Eguchi
Witness
Yumiko Eguchi

Hitoshi Obata
Name 14/01 Hitoshi Obata
The Kansai University
14/01/03
Date

Francis Massi
Witness

Michel J. Desrochers
Michel J. Desrochers
National Research Council of Canada
JAN 21, 2003
Date