

03-06-2003

2 SHEET

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

3/4/03  
Dkn1

To the Honorable Commissioner of

102378176

attached original documents or copy thereof.

1. Name of conveying party(ies):

Daikin Industries, Ltd.

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date(s): January 27, 2003

2. Name and address of receiving party(ies)

Name: Pangene Corporation

Street Address: 5500 Stewart Avenue

City: Fremont State: CA ZIP: 94538

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

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

If this document is being filed together with a new application, the execution date(s) of the application is/are:

A. Patent Application No.(s)

B. Patent No.(s)

5,273,881; 5,670,316; 5,506,098; 5,719,023; 5,965,361 and  
6,335,164

Additional numbers attached? ☐ Yes ☒ No

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

Name: Grant Kalinowski

Internal Address: \_\_\_\_\_

Street Address: c/o Fish & Neave

1251 Avenue of the Americas

City: New York State: NY ZIP: 10020-1104

03/06/2003 TDI A21 00000081 061075 5273881

01 FC:8021 240.00 CH

02 FC:8024 120.00 CH

6. Total number of applications and patents involved:

6

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

☐ Enclosed

☒ Authorized to be charged to deposit account

☒ Charge excess/credit overpayment to deposit account

8. Deposit account number:

06-1075

(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.

Grant Kalinowski

Name of Person Signing

Signature

February 28, 2003

Date

(Reg. No. 48,314)

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

6

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

PATENT  
REEL: 013456 FRAME: 0277

# PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT ("Assignment") is made and entered into as of this <sup>January</sup> 27 day of ~~December~~, 2002, (the "Effective Date"), by and between Pangene Corporation, 5500 Stewart Avenue, Fremont, CA 94538, U.S.A. ("Assignee") and Daikin Industries, Ltd., Umeda Center Bldg., 2-4-12, Nakazaki-Nishi, Kita-Ku, Osaka, 530-8323, Japan ("Assignor").

WHEREAS, Assignor wishes to assign to Assignee all right, title and interest in and to the patents identified and set forth on Schedule A (the "Patents").

WHEREAS, Assignee agrees to pay U.S. \$200,000 for the Patents.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged:

1. Assignor does hereby sell, assign, transfer and set over to Assignee, the entire right, title and interest in and to the Patents, for all countries throughout the world, including, without limitation, the subject matter of all claims which may be obtained therefrom for its own use and enjoyment, and for the use and enjoyment of its successors, assigns and/or other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor if this Assignment and sale had not been made; together with all income, royalties, damages or payments due or payable as of the Effective Date or thereafter, including, without limitation, all claims for damages by reason of past, present or future infringement or other unauthorized use of the Patents, with the right to sue for, and collect the same for its own use and enjoyment, and for the use and enjoyment of its successors, assigns, and other legal representatives.
2. In consideration for the assignment of the Patents and other rights granted to Assignee pursuant to this Assignment, Assignee shall pay Assignor the sum of U.S. \$200,000, by wire transfer in immediately available funds to the account specified below, upon execution of this Assignment.

1

K. I. J. N.

2

K. I. J. N.

ACCOUNT DETAILS:

Bank Name: Sumitomo Mitsui Banking Corporation  
Branch: Osaka Main Branch  
Address: Kitahama 4-6-5, Chuo-Ku, Osaka, Japan  
Swift Code: SMBCJPJT  
Account No.: 259728  
Account Name: Daikin Industries, Ltd.

3. Assignor authorizes Assignee that Assignee, at Assignee's expense and account, requests the appropriate authority in each country throughout the world to record Assignee as owner of the Patents, including, without limitation, with respect to all substitutions, continuations, divisions, continuations-in-part, reissues, reexaminations or extensions or foreign equivalents thereof, and to issue any and all letters patents thereon to Assignee for the sole use and enjoyment of Assignee, its successors, assigns or other legal representatives.
4. Assignor hereby represents and warrants that it owns all right, title and interest in and to the Patents, free and clear of all liens, licenses and other encumbrances, that it has the full right to enter into this Assignment and to assign the Patents and other rights granted to Assignee hereunder, and that it has not executed and will not execute, and it is not otherwise bound by, any agreement or other instrument in conflict herewith.
5. Assignor agrees that it shall provide all such cooperation and assistance as reasonably requested by Assignee or any of its successors and assigns or legal representatives, at Assignee's expense, to the extent that Assignor has its ability and capacity to do so without interfering with Assignor's business to effectuate the purposes of this Assignment (including to prosecute or defend any proceedings related to the Patents, to obtain additional patent protection and to record, implement and perfect this Assignment), and to execute such document as may be reasonably requested by Assignee to do so.
6. This Assignment may be executed in one or more counterparts, each of which shall be considered an original, but all of which together shall constitute one and the same instrument.

*K. I. T. M.*

IN TESTIMONY WHEREOF, the Assignor and Assignee have caused this Assignment to be signed and executed by the undersigned officers thereunto duly authorized this 29 day of ~~December~~<sup>January</sup>, 2002.

Pangene Corporation

By: [Signature]

Name: David Zarling, Ph.D.

Title: President and CEO

Daikin Industries, Ltd.

By: Kiyohiko Ihara

Name: Kiyohiko Ihara

Title: Director,  
General Manager of Chemical Division

Witness

By: Tadashi Higashiura

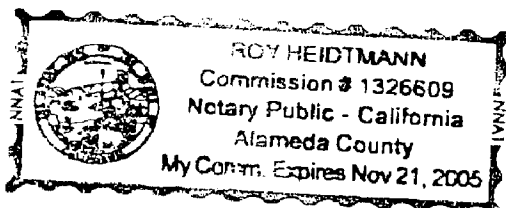
Name: Tadashi Higashiura

Title: Manager, Business Planning  
Material Solution Department  
Chemical Division

STATE OF CALIFORNIA )  
 ) SS.  
COUNTY OF ALAMEDA )

On this 29<sup>th</sup> day of JAN, 2002 there appeared before me ROY HEIDTMANN personally known to me, who acknowledged that s/he signed the foregoing Assignment as his/~~her~~ voluntary act and deed on behalf and with full authority of PANGENE CORP.

[Signature]  
Notary Public



○Patents

1) METHODS FOR TARGETING, ENRICHING, DETECTING AND/OR ISOLATING  
TARGET NUCLEIC ACID SEQUENCE USING RECA-LIKE RECOMBINASE

USA: granted US 6,335,164

Japan: published 2001-506124

Europe: published 939,834

(Austria, Belgium, Switzerland, Germany, Denmark, Spain, Finland,  
France, UK, Greece, Ireland, Italy, Luxemburg, Monaco, Holland,  
Portugal, Sweden)

Australia: granted 712,873

2) IN-SITU HYBRIDIZATION METHOD USING RECA PROTEIN AND RECA  
PROTEIN HAVING MARKER OR LIGAND FOR USE IN SAID METHOD

USA: granted 5,965,361

Japan: published 7-818236

Europe: published 687,738

(Belgium, Germany, France, UK, Italy, Holland, Sweden)

Canada: granted 2,156,743

3) IN SITU HYBRIDIZATION METHOD

USA: granted 5,506,098

granted 5,719,023

Japan: granted 2,819,830

Austria: granted 145,674

Belgium: granted 614,492

Switzerland: granted 614,492

Germany: granted 69,215,533

Denmark: granted 614,492

*K. J. T. W.*<sup>4</sup>

Spain: granted 2,094,928  
France: granted 614,492  
UK: granted 614,492  
Italy: granted 614,492  
Holland: granted 614,492  
Sweden: granted 614,492  
Canada: granted 2,116,214  
Australia: granted 664,045  
Korea: granted 245,283  
Norway: published 9,400,746

4) DIAGNOSTIC APPLICATIONS OF DOUBLE D-LOOP FORMATION

USA: granted 5,273,881  
granted 5,670,316  
Japan: granted 2,745,816  
Austria: granted 153,707  
Belgium: granted 612,352  
Switzerland: granted 612,352  
Germany: granted 69,220,084  
Denmark: granted 612,352  
Spain: granted 2,101,867  
France: granted 612,352  
UK: granted 612,352  
Italy: granted 612,352  
Holland: granted 612,352  
Sweden: granted 612,352  
Canada: granted 2,116,215  
Australia: granted 661,505  
Korea: granted 245,284  
Norway: granted 313,557

*K. J. J. N.*<sup>5</sup>