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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copies here.

1. Name of conveying party(ies):

Toshiaki Tanaka
Mitsuhiro Tachibana
Shigeru Kijima

12/11/01

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

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

Execution Date: November 15, 2001

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

Name: Hitachi Software Engineering Co., Ltd.

Address: Intellectual Property Center

6-81, Onoe-cho, Naka-ku

City: Yokohama-shi, Kanagawa State/Prov.:

Country: Japan ZIP: 2318475

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: November 15, 2001

Patent Application No.

Filing date

B. Patent No.(s)

Additional numbers

☐ Yes ☒ No

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

Name: Robert M. Bedgood

Registration No. 43,488

Address: PILLSBURY WINTHROP LLP

50 Fremont Street, P.O. Box 7880

City: San Francisco State/Prov.: CA

Country: USA ZIP: 94105

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:

03-3975

12/26/2001 6TON11 00000099 033975 10014737

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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.

John R. Wetherell, Jr.

Name of Person Signing

Signature

December 11, 2001

Date

Total number of pages including cover sheet, attachments, and

3

PATENT

REEL: 012393 FRAME: 0708

Attorney's Docket No.: _____

Assignment of Application

WHEREAS, I (WE) Toshiaki TANAKA, Mitsuhiro TACHIBANA and Shigeru KIJIMA of all c/o Hitachi Software Engineering Co., Ltd., Intellectual Property Center, 6-81, Onoe-cho, Naka-ku, Yokohama-shi, Kanagawa 231-8475 Japan

_____, respectively,
have invented certain new and useful improvements in: _____

HYBRIDIZATION REACTION APPARATUS AND HYBRIDIZATION METHOD

for which an application for Letters Patent was executed on November 15, 2001

(Application No. _____, filed _____), and

WHEREAS, HITACHI SOFTWARE ENGINEERING CO., LTD.
(hereinafter referred to as "ASSIGNEE") having a place of business at: _____
6-81, Onoe-cho, Naka-ku, Yokohama-shi, Kanagawa 231-8475 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 therefor 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 Pillsbury Winthrop LLP of 11975 El Camino Real, Suite 200, San Diego, CA 92130 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: November 15, 2001 Toshiaki Tanaka
(Signature of inventor) Toshiaki TANAKA

Date: November 15, 2001 Mitsuhiro Tachibana
(Signature of inventor) Mitsuhiro TACHIBANA

Date: November 15, 2001 Shigeru Kijima
(Signature of inventor) Shigeru KIJIMA