

SEP 16 2002

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HEET

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Biomolecular Engineering Research Institute

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

3. Nature of conveyance:

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

Execution Date: July 19, 2002

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

Name: Takeda Chemical Industries, Ltd.Street Address: 1-1, Doshomachi 4-chome, Chuo-kuCity: Osaka-shi, Osaka-fu Country: JapanAdditional name(s) & address(es) attached? No

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

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

A. Patent Application No.(s)

B. Patent No.(s)

6,020,464, issued February 1, 2000Additional numbers attached? No5. Name and address of party to whom correspondence
concerning document should be mailed:Name: WENDEROTH, LIND & PONACK, L.L.P.
Attn: Lee Cheng, Esq.Street Address: 2033 K Street, N.W., Suite 800City: Washington, State: DC ZIP: 20006-10216. Total number of applications and patents involved: 1

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

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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.*Lee Cheng, Reg. No. 40,949
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September 16, 2002
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PATENT
REEL: 13295 FRAME: 0595

ASSIGNMENT

Whereas, We, Biomolecular Engineering Research Institute. (hereinafter referred to as "Assignor") of 6-2-3, Furuedai, Suita-shi, Osaka-fu, Japan, is the owner of the following United States Letters Patent:

- (1) U.S. Patent 6,020,464 -Issued on February 1, 2000
(USSN 09/063,893)

Whereas, TAKEDA CHEMICAL INDUSTRIES, LTD. (hereinafter referred to as "Assignee") of 1-1, Doshomachi 4-chome, Chuo-ku, Osaka-shi, Osaka-fu, Japan, is desirous of acquiring all rights, title, and interest in and to the said United States Letters Patent No. 6,020,464 from the Assignor;

NOW, THEREFORE, in consideration of the sum of the One Dollar (\$ 1.00) to the Assignor in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the Assignor has sold, assigned and transferred, and by these presents does hereby sell, assign and transfer unto said Assignee, all rights, title and interest in and to the said Letters Patent No. 6,020,464 within the United States of America and its territories, dependencies and possessions, together with the right to extend the protection of said United States Letters Patents to the various territorial possessions now owned or which may be hereafter acquired by the United States of America, all said rights to be held and enjoyed by the Assignee for its own use and behalf, and for the use and behalf of its successors or assigns, to the full end of the term for which said Letters Patents have been granted, as fully and entirely as the same would have been held and enjoyed by said Assignor if this assignment sale had not been made.

AND the Assignor, acting by its undersigned authorized representative, has reviewed the prior assignment document referred to above and certifies to the best of its knowledge as of the date here of and believe that it holds the full right and interest to convey all interest herewith assigned, and that it has not executed, and will not execute any agreement in conflict therewith.

AND the Assignor, covenants and agrees that it will communicate to the Assignee, its successors, legal representatives and assigns, any facts known to it respecting said Letters Patent No. 6,020,464 and use all reasonable means to cause its employees to testify in any

legal proceedings, sign all lawful papers, execute all reissue and reexamination applications, make all rightful oaths, and generally do everything possible to aid the Assignee, its successors, legal representatives and assigns, to perfect its share of the title and to obtain and enforce patent protection for said Letters Patent No. 6,120,464.

The undersigned hereby grant(s) the law firm of WENDEROTH, LIND ETAL 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 U.S. Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date opposite the undersigned name.

Date: July 19, 2002

Biomolecular Engineering
Research Institute

By: J. Sugai
Junichi Sugai

Representative
Title: Managing Director

WITNESS: Kyozo Tsukamoto
Name: Kyozo Tsukamoto

WITNESS: T. Yamamoto
Name: TAKEO YAMAMOTO