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Form PTO-1592 (modified)

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

1. Name of Conveying Party or Parties:

Hideko Otake, Yasuji Koyama, Tatsuo Horiuchi and Eiichi Nakano

Additional Names of conveying party or parties attached? Yes No

2. Name and address of receiving party or parties:

Kikkoman Corporation
339, Noda
Noda-shi
Japan

and

Noda Institute for Scientific Research
399, Noda
Noda-shi, Chiba-ken
Japan

Additional Name(s) and address(es) attached? Yes No

3. Nature of Conveyance:

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- Other _____

Execution Date: February 25, 1991

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 Number(s):

07/637,865

Additional Name(s) and address(es) attached? Yes No

B. Patent Number(s):

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

Banner & Witcoff, Ltd.
1001 G Street, N.W., Suite 1100
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6. Total Number of Applications and patents involved:

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

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Joseph M. Skermon, Reg. No. 29,864
Name of Person Signing

December 28, 1998
Date

Total Number of Pages comprising Cover Sheet:

ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar(\$1.00) or the equivalent thereof, and other good and valuable consideration paid to Hideko OTAKE, Yasuji KOYAMA, Tatsuo HORIUCHI and Eiichi NAKANO,

citizens of Japan by KIKKOMAN CORPORATION and NODA INSTITUTE FOR SCIENTIFIC RESEARCH, corporations organized under the laws of Japan, located at 339, Noda, Noda-shi, Japan and 399, Noda, Noda-shi, Chiba-ken, Japan, respectively,

receipt of which is hereby acknowledged, we, the said Hideko OTAKE, Yasuji KOYAMA, Tatsuo HORIUCHI and Eiichi NAKANO,

do hereby sell and assign to said KIKKOMAN CORPORATION and NODA INSTITUTE FOR SCIENTIFIC RESEARCH,

their successors and assigns, all our right, title and interest, in and for the United States of America, in and to "N-ACETYL MANNOSAMINE DEHYDROGENASE GENE AND NOVEL RECOMBINANT DNA AS WELL AS A METHOD FOR PRODUCTION OF N-ACETYL MANNOSAMINE DEHYDROGENASE" invented by us and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said KIKKOMAN CORPORATION and NODA INSTITUTE FOR SCIENTIFIC RESEARCH,

their successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made;

And we hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of said above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And we do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said KIKKOMAN CORPORATION and NODA INSTITUTE FOR SCIENTIFIC RESEARCH.

Signed on the dates indicated aside our signatures:

INVENTORS (発明者フルネームサイン)	Date Signed (署名日)	Witnesses (立会人サイン)
1) <u>Hideko Otake</u> (Hideko OTAKE)	February 25, 1991	<u>Yasuo Asao</u>
2) <u>Yasuji Koyama</u> (Yasuji KOYAMA)	February 25, 1991	<u>Yasuo Asao</u>
3) <u>Tatsuo Horiuichi</u> (Tatsuo HORIUCHI)	February 25, 1991	<u>Yasuo Asao</u>
4) <u>Eiichi Nakano</u> (Eiichi NAKANO)	February 25, 1991	<u>Yasuo Asao</u>
5) _____ ()		
6) _____ ()		

PATENT