

FORM PTO-1595  
(Rev. 6-93)

08-11-1998

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

OMB No. 0651-0011 (exp. 4/94)



ET

*0-10-98*

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1. Name of conveying party:  
Wataru MIZUNASHI  
  
Additional name(s) of conveying party(ies) attached?  
 Yes  No

2. Name and address of receiving party:  
Name: Nitto Chemical Industry Co., Ltd.  
Internal Address: \_\_\_\_\_  
Street Address: 5-1, Marunouchi 1-chome  
Chiyoda-ku  
City: Tokyo 100 Country: Japan  
  
Additional name(s) & address(es) attached?  Yes  No

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_  
  
Execution Date: November 14, 1997

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. 08/980,994, filed December 1, 1997 B. Patent No. (s)  
  
Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
  
Name: Davidson, Davidson & Kappel, LLC  
  
Internal Address: 382.1015  
  
Street Address: 1140 Avenue of the Americas  
  
City: New York State: New York ZIP: 10036

6. 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.  
  
Clifford M. Davidson, Reg. No. 32,728 *Clifford M. Davidson* August 3, 1998  
Name of Person Signing Signature Date  
  
Total number of pages including cover sheet, attachments, and document: [3]

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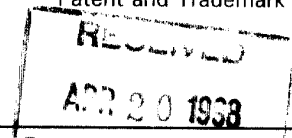
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1. Name of conveying party:  
Wataru MIZUNASHI  
  
Additional name(s) of conveying party(ies) attached?  
 Yes  No

MRD 4-20-98

2. Name and address of receiving party:  
  
Name: Nitto Chemical Industry Co., Ltd.  
  
Internal Address: \_\_\_\_\_

Street Address: 5-1, Marunouchi 1-chome  
  
Chiyoda-ku  
  
City: Tokyo 100 Country: Japan

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Execution Date: November 14, 1997

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 of the application is: \_\_\_\_\_

A. Patent Application No. 08/875,323, filed June 16, 1997 B. Patent No.(s) \_\_\_\_\_

Additional numbers attached?  Yes  No

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

Name: Davidson, Davidson & Kappel, LLC  
  
Internal Address: 382.1015  
  
Street Address: 1140 Avenue of the Americas  
  
City: New York State: New York ZIP: 10036

6. Total number of applications and patents involved:  1

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Name of Person Signing

Signature

April 15, 1998  
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*MRS 12-1-97*

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U.S. PATENT  
08/980994



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<p>1. Name of conveying party: Wataru MIZUNASHI</p> <p>Additional name(s) of conveying party(ies) attached? [ ] Yes [x] No</p> <p><i>08/980994</i></p>	<p>2. Name and address of receiving party:</p> <p>Name: <u>Nitto Chemical Industry Co., Inc.</u></p> <p>Internal Address: _____</p> <p>Street Address: <u>5-1, Marunouchi 1-chome</u> <u>Chiyoda-ku</u></p> <p>City: <u>Tokyo 100</u> Country: <u>Japan</u></p> <p>Additional name(s) &amp; address(es) attached? [ ] Yes [X] No</p>
<p>3. Nature of conveyance: [X] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other _____</p> <p>Execution Date: <u>November 14, 1997</u></p>	

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. 08/875,323, filed June 16, 1997      B. Patent No. (s) \_\_\_\_\_

Additional numbers attached? [ ] Yes [X] No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>Steinberg, Raskin &amp; Davidson, P.C.</u></p> <p>Internal Address: <u>382.1015</u></p> <p>Street Address: <u>1140 Avenue of the Americas</u></p> <p>City: <u>New York</u> State: <u>New York</u> ZIP: <u>10036</u></p>	<p>6. Total number of applications and patents involved: [1]</p> <p>7. Total fee (37 CFR 3.41).....\$<u>40.00</u></p> <p>[X] Enclosed [ ] Authorized to be charged to deposit account</p> <p>8. Deposit account number: _____</p> <p>(Attach duplicate copy of this page if paying by deposit account)</p>
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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.

Clifford M. Davidson, Reg. No. 32,728      *Clifford M. Davidson*      December 1, 1997  
Name of Person Signing      Signature      Date

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01/20/1998 KHARLING 00000016 08980994 40.00 00  
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 Washington, D.C. 20231

Attorney's Docket No.: 382.1015

Assignment of Application

WHEREAS, I (WE) Wataru Mizunashi of 12-4, Torigaoka,  
Totsuka-ku, Yokohama-shi, Kanagawa 244 Japan

\_\_\_\_\_, respectively,  
have invented certain new and useful improvements in: PROTEIN HAVING  
ETHYLENEDIAMINE-N,N'-DISUCCINIC ACID: ETHYLENEDIAMINE  
LYASE ACTIVITY AND GENE ENCODING THE SAME  
for which an application for Letters Patent was executed on November 14, 1997  
(Application No. \_\_\_\_\_, filed \_\_\_\_\_) and

WHEREAS, Nitto Chemical Industry Co., Ltd.

(hereinafter referred to as "ASSIGNEE") having a place of business at: 5-1,  
Marunouchi 1-chome, Chiyoda-ku, Tokyo 100 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 STEINBERG, RASKIN & DAVIDSON, P.C. of 1140 Avenue of the Americas, New York, N.Y. 10036 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 14, 1997

*Wataru Mizunashi*  
(Signature of inventor) Wataru Mizunashi

Date: \_\_\_\_\_

(Signature of inventor)