

08-16-2001

FORM PTO-1595
(Rev. 6-93)



HEET U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

101812514

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

<p>1. Names of conveying parties:</p> <p>1) DONALD S. KARANEWSKY 2) ROBERT J. TERNANSKY 3) STEVEN D. LINTON 4) THANG DINH 5) 6)</p> <p>Additional names of conveying parties attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party:</p> <p>Name: <u>IDUN PHARMACEUTICALS, INC.</u></p> <p>Internal Address: _____</p> <p>_____</p> <p>Street Address: <u>9380 JUDICIAL DRIVE</u></p> <p>_____</p> <p>City: <u>SAN DIEGO</u> State <u>CA</u></p> <p>Zip: <u>92121</u></p> <p>Additional names & addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Other _____</p> <p>Execution Dates:</p> <p>1) <u>JUNE 20, 2001</u> 4) <u>JUNE 20, 2001</u></p> <p>2) <u>JUNE 21, 2001</u> 5) _____</p> <p>3) <u>JUNE 20, 2001</u> 6) _____</p>	

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

If this document is being filed together with a new application,
the filing date of the application is _____.


<p>A. Patent Application No(s).</p> <p><u>09/765,105</u></p>	<p>B. Patent No(s).</p> <p>_____</p>
<p>Additional numbers attached? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>Seed Intellectual Property Law Group PLLC</u></p> <p>Internal Address: <u>KARL R. HERMANN</u></p> <p>_____</p> <p>Street Address: <u>701 Fifth Avenue, Suite 6300</u></p> <p>City: <u>Seattle</u> State: <u>WA</u> ZIP: <u>98104-7092</u></p>	<p>6. Total number of applications and patents involved..... <u>1</u></p> <hr/> <p>7. Total Fee (37 CFR 3.41): <u>\$40</u></p> <p><input checked="" type="checkbox"/> Enclosed</p> <p><input type="checkbox"/> Authorized to be charged to deposit account</p> <hr/> <p>8. Deposit account number:</p> <p><u>19-1090</u></p>
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08/15/2001 DBYRNE 00000209 09765105
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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.

KARL R. HERMANN  AUGUST 6, 2001
Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and document: 7

ASSIGNMENT

WHEREAS, we, Donald S. Karanewsky, Robert J. Ternansky, Steven D. Linton and Thang Dinh (hereinafter referred to as ASSIGNORS), having post office addresses of 1797 Continental Lane, Escondido, California 92029; 3469 Camino Valencia, Carlsbad, California 92009; 11320 Red Cedar Drive, San Diego, California 92131; and 11531 College Avenue, Garden Grove, California 92804, respectively, are the joint inventors of an invention entitled "C-TERMINAL MODIFIED OXAMYL DIPEPTIDES AS INHIBITORS OF THE ICE/CED-3 FAMILY OF CYSTEINE PROTEASES," as described and claimed in the specification forming part of a continuation-in-part application for United States letters patent which was filed on January 16, 2001 and assigned Application No. 09/765,105; this application is a continuation-in-part of U.S. Application No. 09/745,204 filed December 19, 2000 and U.S. Application No. 09/177,549 filed October 22, 1998, and claims the benefit of PCT Application No. PCT/US99/15074 filed July 1, 1999 and Provisional Application No. 60/091,689 filed July 2, 1998.

WHEREAS, Idun Pharmaceuticals, Inc. (hereinafter referred to as ASSIGNEE), a corporation of the State of California having a place of business at 9380 Judicial Drive, San Diego, California 92121, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents

required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

06-20-01
Date

Donald S. Karanewsky
Donald S. Karanewsky

State of California)

County of San Diego)
ss.

I certify that I know or have satisfactory evidence that Donald S. Karanewsky is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated 6-20-01

Signature of Notary Public Judith A. Dryden

Printed Name Judith A. Dryden

My appointment expires 01-01-05

06-21-01
Date

Robert J. Ternansky
Robert J. Ternansky

State of California)

County of San Diego)
ss.

I certify that I know or have satisfactory evidence that Robert J. Ternansky is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated 6-21-01

Signature of Notary Public Judith A. Dryden

Printed Name Judith A. Dryden

My appointment expires 01-01-05

Date June 20, 2001

Steven D. Linton
Steven D. Linton

State of California

County of San Diego

ss.

I certify that I know or have satisfactory evidence that Steven D. Linton is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated 6-20-2001

Signature of Notary Public Judith A. Dryden

Printed Name Judith A. Dryden

My appointment expires 1-01-05

Date 06-20-2001

Thang Dinh
Thang Dinh

State of California

County of San Diego

ss.

I certify that I know or have satisfactory evidence that Thang Dinh is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated 6-20-01

Signature of Notary Public Judith A. Dryden

Printed Name Judith A. Dryden

My appointment expires 1-1-05

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

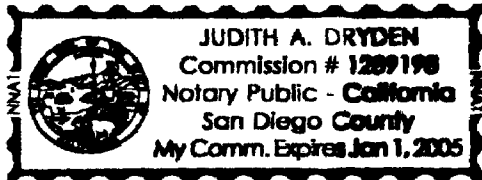
County of California } ss.

On 6-21-01, before me, Judith A. Dryden, Notary
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Robert G. Karavansky
Name(s) of Signer(s)

personally known to me
 proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Judith A. Dryden
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

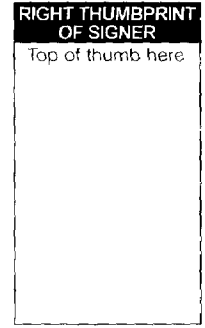
Title or Type of Document: S. Henson, D. Karavansky, J. Dink

Document Date: 7-1-99 Number of Pages: 3

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer

- Signer's Name: _____
- Individual
- Corporate Officer — Title(s): _____
- Partner — Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer Is Representing: _____

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of San Diego } ss.

On 6-20-01, before me,

Date

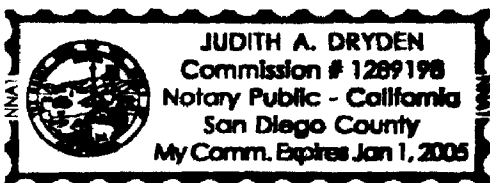
Judith A. Dryden, Notary
Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared

Stewart D. Denton
Name(s) of Signer(s)

personally known to me
 proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Judith A. Dryden
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

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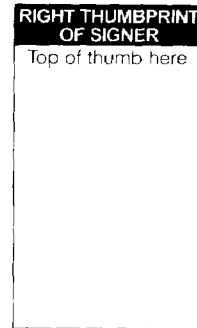
Title or Type of Document: patent assignment

Document Date: 7-1-99 Number of Pages: 3

Signer(s) Other Than Named Above: T. Dink, R. Terawsky, D. Karanowsky

Capacity(ies) Claimed by Signer

- Signer's Name: _____
- Individual
 - Corporate Officer — Title(s): _____
 - Partner — Limited General
 - Attorney in Fact
 - Trustee
 - Guardian or Conservator
 - Other: _____



Signer Is Representing: _____

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of San Diego } ss.

On June 20, 2001, before me,

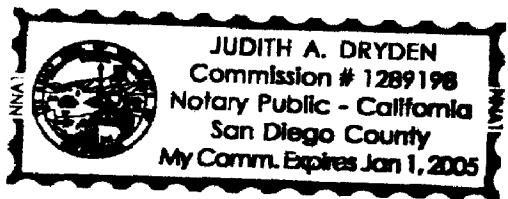
Judith A. Dryden, Notary
Name and Title of Officer (e.g. Jane Doe, Notary Public)

personally appeared

Donald S. Karanewsky
Name(s) of Signer(s)

- personally known to me
- proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Judith A. Dryden
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

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Title or Type of Document:

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Document Date:

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Number of Pages:

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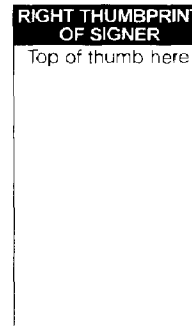
S. Hinton, J. Dink, R. Ternarsky

Capacity(ies) Claimed by Signer

Signer's Name:

- Individual
- Corporate Officer — Title(s): _____
- Partner — Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____

Signer Is Representing: _____



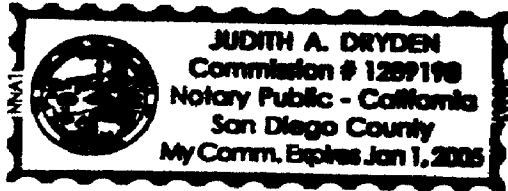
CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California }
County of California } ss.

On June 20, 2001 before me, Judith A. Dryden, Notary
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")
personally appeared THANG DINH
Name(s) of Signer(s)

personally known to me
 proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.
Judith A. Dryden
Signature of Notary Public

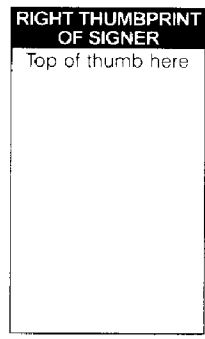
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Description of Attached Document
Title or Type of Document: patent assignment
Document Date: 7-1-99 Number of Pages: 3
Signer(s) Other Than Named Above: S. Linton, D. Karanowsky, R. Turner

Capacity(ies) Claimed by Signer
Signer's Name: _____
 Individual
 Corporate Officer — Title(s): _____
 Partner — Limited General
 Attorney in Fact
 Trustee
 Guardian or Conservator
 Other: _____



Signer Is Representing: _____