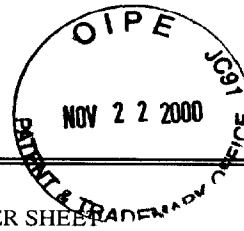


12-14-2000



101588937

Form PTO-1595  
6-93

RECORDATION FORM COVER SHEET  
PATENTS ONLY

U.S. Department of Commerce  
Patent and Trademark Office

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

1. Name of conveying parties: *ms*  
1) Wenxi PAN  
2) Tianbao LU  
3) Richard M. SOLL  
4) Bruce E. TOMCZUK  
*11-22-00*  
Additional name(s) of conveying party(ies) attached?  yes  no

2. Name and address of receiving party(ies):  
Name: 3-DIMENSIONAL PHARMACEUTICALS, INC.  
Street Address: Eagleview Corporate Center, 665 Stockton Drive  
City: Exton State: PA Zip Code: 19341  
Country: USA  
Additional name(s) & address(es) attached?  yes  no

3. Nature of Conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_  
Execution Dates: 1) Nov. 10, 200, 2) Nov. 3, 2000, 3) Nov. 8, 2000 and 4) Nov. 10, 2000

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.  
09/612,591

B. Patent No(s).

Additional numbers attached?  yes  no

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: **Sterne, Kessler, Goldstein & Fox P.L.L.C.**  
Internal Address: John M. Covert c/o  
Street Address: 1100 New York Ave., N.W. Suite 600  
City: Washington State: D.C. Zip Code: 20005-3934

6. Total number of applications and patents involved 1  
7. Total fee (37 C.F.R. § 3.41).....\$ 40.00  
 Enclosed SKG&F Check No. 29557  
 Authorized to be charged to Deposit Account  
8. Deposit Account Number: 19-0036

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.*

John M. Covert  
Name of Person Signing  
Registration No. 38,759

*John M. Covert*  
Signature

Nov. 22, 2000  
Date

Total number of pages including cover sheet, attachments and document 3

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

12/13/2000 MHA11 00000043 09612591  
01 FC:581

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents and Trademarks, Box Assignments  
Washington, D.C. 20231

# ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): 1) Wenxi PAN; 2) Tianbao LU; 3) Richard M. SOLL; and 4) Bruce E. Tomczuk, the undersigned inventor(s) hereby sell(s) and assign(s) to 3-Dimensional Pharmaceuticals, Inc. (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

check applicable box(es)  for the United States of America (as defined in 35 U.S.C. § 100),  
 and throughout the world,

(a) in the invention(s) known as Heteroaryl Protease Inhibitors and Diagnostic Imaging Agents for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 1) 11/10/00, 2) 11/3/00, 3) 11/8/00, and 4) 11/10/00 (also known as United States Application No. 09/612,591, filed July 7, 2000), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

*JMC*  
*Reg No*  
*38,759*

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

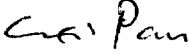
The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.


The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

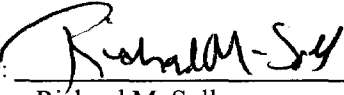
The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A.

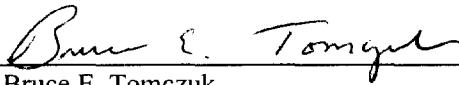
Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; Steven R. Ludwig, Esquire, Registration No. 36,203; John M. Covert, Esquire, Registration No. 38,759; and Linda E. Alcorn, Esquire, Registration No. 39,588; all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that 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.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: 11/10/00 Signature of Inventor:   
Wenxi Pan

Date: 11/3/00 Signature of Inventor:   
Tianbao Lu

Date: 11/8/00 Signature of Inventor:   
Richard M. Soll

Date: Nov. 10, 2000 Signature of Inventor:   
Bruce E. Tomczuk

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

PAN *et al.*

Appl. No.: 09/612,591

Filed: July 7, 2000

For: **Heteroaryl Protease Inhibitors and  
Diagnostic Imaging Agents**



Art Unit: *To be assigned*

Examiner: *To be assigned*

Atty Docket: 1503.0640001/JMC/BLS

**TRANSMITTAL**

***BOX ASSIGNMENT***

The Honorable Director  
of Patents and Trademarks  
Washington, DC 20231

Sir:

Applicants submits the following documents for appropriate action by the U.S. Patent and Trademark Office:

1. Recordation Form Cover Sheet (Form PTO-1595);
2. Assignment to 3-Dimensional Pharmaceuticals, Inc., official recordation and return of which is respectfully requested;
3. Fee Transmittal Form (PTO/SB/17);
4. Return postcard; and
5. SKG&F Check No. 29557 for \$40.00 to cover recordation fee (37 C.F.R. § 1.21).

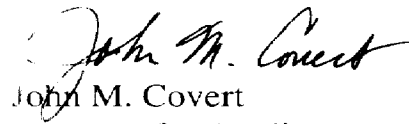
It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. The U.S. Patent and Trademark

Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036

If extensions of time under 37 C.F.R. § 1.136 other than those otherwise provided for herewith are required to prevent abandonment of the present patent application, then such extensions of time are hereby petitioned, and any fees therefor are hereby authorized to be charged to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



John M. Covert  
Attorney for Applicants  
Registration No. 38,759

JMC/BLS/ybh

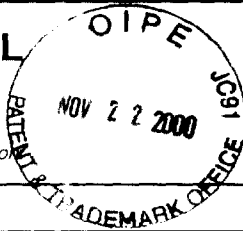
PAUSERS\YHARRIS\BLS\ProM150641assg.tr

STERNE, KESSLER,  
GOLDSTEIN & FOX P.L.L.C.

**PATENT**  
**REEL: 011328 FRAME: 0851**

# FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.



**Complete if Known**

Application Number	09/612,591
Filing Date	July 7, 2000
First Named Inventor	PAN et al.
Examiner Name	To be assigned
Group Art Unit	To be assigned
Attorney Docket No.	1503.0640001/JMC/BLS

TOTAL AMOUNT OF PAYMENT (\$)**40.00**

**METHOD OF PAYMENT (check one)**

1.  The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to:

Deposit Account Number: 19-0036  
 Deposit Account Name: Sterne, Kessler, Goldstein & Fox P.L.L.C.

Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17

Applicant claims small entity status. See 37 CFR 1.27

**3. ADDITIONAL FEES**

Large Entity	Small Entity	Large Entity	Small Entity	Fee Description	Fee paid
Fee Code	Fee Code	Fee (\$)	Fee (\$)		
101	205	130	65	Surcharge - late filing fee or oath	
12	227	50	25	Surcharge - late provisional filing fee or cover sheet	
13	139	130	130	Non-English specification	
14	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	215	215	55	Extension for reply within first month	
116	216	390	195	Extension for reply within second month	
117	217	890	445	Extension for reply within third month	
118	218	1,390	695	Extension for reply within fourth month	
128	228	1,890	945	Extension for reply within fifth month	
119	219	310	155	Notice of Appeal	
120	220	310	155	Filing a brief in support of an appeal	
12	221	270	135	Request for oral hearing	
138	138	1,510	1,510	Petition to institute a public use proceeding	
140	240	110	55	Petition to revive - unavoidable	
141	241	1,240	620	Petition to revive - unintentional	
142	242	1,240	620	Utility issue fee (or reissue)	
143	243	440	220	Design issue fee	
144	244	600	300	Plant issue fee	
122	122	130	130	Petitions to the Commissioner	
123	123	130	130	Petitions related to provisional applications	
126	126	180	180	Submission of Information Disclosure Stmt	
581	481	40	40	Recording each patent assignment per property (times number of properties)	\$40.00
146	246	710	355	Filing a submission after final rejection (37 CFR 1.129(a))	
149	249	710	355	For each additional invention to be examined (37 CFR 1.129(b))	
179	279	710	355	Request for Continued Examination (RCE)	
169	900	900	900	Request for expedited examination of a design application	
Other fee (specify):					
Other fee (specify):					
Reduced by Basic Filing Fee Paid					
<b>SUBTOTAL (3) (\$)</b> 40.00					

**FEE CALCULATION**

**1. BASIC FILING FEE**

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
101	710	201	355	Utility filing fee	
106	320	206	160	Design filing fee	
107	490	207	245	Plant filing fee	
108	710	208	355	Reissue filing fee	
114	150	214	75	Provisional filing fee	
<b>SUBTOTAL (1) (\$)</b>					

**2. EXTRA CLAIM FEES**

Extra	Fee from below	Fee Paid
Total Claims _____ - 20** = _____ X _____ = _____		
Indep. Claims _____ - 3** = _____ X _____ = _____		
Multiple Dependent _____ = _____		

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	80	202	40	Independent claims in excess of 3
104	270	204	135	Multiple dependent claim
108	80	208	40	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent
<b>SUBTOTAL (2) (\$)</b>				

\*\* or number previously paid, if greater. For Reissues, see above

**SUBMITTED BY** Complete (if applicable)

Name (Print/Type)	John M. Covert	Registration No. (Attorney/Agent)	38,759	Telephone	202-371-2600
Signature	<i>John M. Covert</i>	Date	Nov. 22, 2000		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.