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COVER SHEET

09/424335  
428 Rec'd PCT/PTO  
22 NOV 1999  
Our Ref.: 3525-45



101487486

Commissioner of Patents and Trademark  
Box Assignment, Washington, D.C. 20231

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

1. Name of conveying party(ies):  
 Soren Christrup                      Hugo D. Schmidt  
 Anders Geert-Jensen  
 Mikael Jorgensen  
 Jorgen Rasmussen

Additional name/s of conveying party/ies attached?

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

Execution Date: November 4, 1999, November 10, 1999, November 10, 1999, November 5, 1999, and November 10, 1999, respectively.

11/22/99

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

Name: Astra Pharmaceuticals Ltd.  
 Internal Address: \_\_\_\_\_  
 Street Address: Home Park, Kings Langley  
 \_\_\_\_\_  
 \_\_\_\_\_

City: Herts.  
 State/Country: United Kingdom  
 Zip: WD4 8DH

Additional name/s & address/es attached?  Yes  No

11/23/1999 RELATION 00000150 09424335  
02 FC:501

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).  
 (1) Unassigned  
 (2)  
 (3)

B. Patent No(s).  
 (1)  
 (2)  
 (3)

Additional numbers attached  Yes  No

09424335

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

Name: Leonard C. Mitchard  
 Internal Address: \_\_\_\_\_  
 Street Address: Nixon & Vanderhye P.C.  
1100 North Glebe Road  
8<sup>th</sup> Floor  
 City: Arlington State: VA Zip: 22201

6. Total number of applications & patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00  
 Enclosed  
 Authorized to be charged to deposit account #14-1140

8. The Commissioner is hereby authorized to charge any deficiency in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No. 14-1140.

DO NOT USE THIS SPACE

9. Statements 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.

Leonard C. Mitchard                      [Signature]                      November 22, 1999  
 Name of Person Signing                      Signature                      Date  
 Reg. No. 29,009

Total number of pages including original cover sheet, attachments, and document: [3]

# ASSIGNMENT OF PATENT APPLICATION

(Søren Christrup of Kirsebærhaven 5, DK-7600 Struer, Denmark

(Anders Geert-Jensen of P.S. Krøyersvej 2A, DK-8270 Højbjerg, Denmark

**(Inventors)** (Mikael Jørgensen of Skolebakken 5Mz.tv., DK-8000 Århus C, Denmark

(Jørgen Rasmussen of Torvegade 16, DK-7600 Struer, Denmark

(Hugo Dines Schmidt of Skolebakken 5 2.tv., DK-8000 Århus C, Denmark

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

**(Assignee)** (Astra Pharmaceuticals Ltd.

**(Address)** (of Home Park, Kings Langley, Herts. WD4 8DH, United Kingdom

(hereinafter designated as the Assignee) the entire right, title and interest for the United States, its territories, dependencies and possessions, and for the country of

**(Other countries)** ( in the invention, and all application for patent and any Letters Patent which may be granted therefore, known as

**(Title)** (INHALER (Assignee's Case No.F 2255-1P US ., filed as PCT SE99/01686 on 24 September 1999 and designating the US)

for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed

(on or has already filed in

(U.S. appln. Serial No. , filed on

(The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

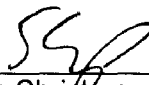
The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

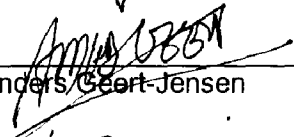
The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

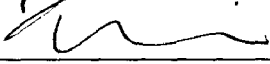
The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

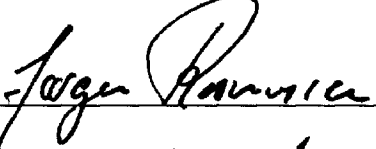
The undersigned hereby grant(s) the firm of NIXON & VANDERHUYE P.C. the power to insert on this assignment any further identification which may be necessary to desirable in order to comply with the rules of the United States Patent Office for recordation of this document.


In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

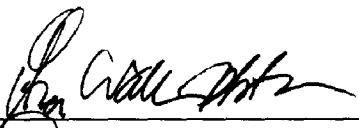
Date: 4-11-1999 Signature of Inventor:   
Søren Christrup

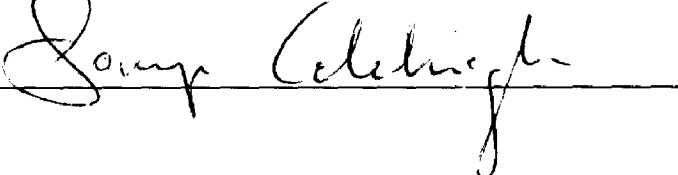
Date: 10-11-99 Signature of Inventor:   
Anders Geert-Jensen

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Mikael Jørgensen

Date: 05-11-99 Signature of Inventor:   
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Date: 10-11-99 Signature of Inventor:   
Hugo Dines Schmidt

Witnessed by:  Date: 10-11-99

Witnessed by:  Date: 10-11-99