

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																		
NATURE OF CONVEYANCE:	ASSIGNMENT																		
CONVEYING PARTY DATA																			
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Jan Andersson</td><td>04/06/1998</td></tr><tr><td>Harald Heckenmueller</td><td>03/30/1998</td></tr><tr><td>Volker Tiedemann</td><td>03/27/1998</td></tr><tr><td>Jan Trofast</td><td>04/06/1998</td></tr><tr><td>Hans Strid</td><td>04/06/1998</td></tr><tr><td>Stefan Friess</td><td>03/30/1998</td></tr><tr><td>Allan Dagsland</td><td>04/06/1998</td></tr><tr><td>Uwe Rollwage</td><td>04/02/1998</td></tr></tbody></table>		Name	Execution Date	Jan Andersson	04/06/1998	Harald Heckenmueller	03/30/1998	Volker Tiedemann	03/27/1998	Jan Trofast	04/06/1998	Hans Strid	04/06/1998	Stefan Friess	03/30/1998	Allan Dagsland	04/06/1998	Uwe Rollwage	04/02/1998
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<table border="1"><tr><td>Name:</td><td>Astra Aktiebolag</td></tr><tr><td>Street Address:</td><td>S-151 85</td></tr><tr><td>City:</td><td>Sodertalje</td></tr><tr><td>State/Country:</td><td>SWEDEN</td></tr></table>		Name:	Astra Aktiebolag	Street Address:	S-151 85	City:	Sodertalje	State/Country:	SWEDEN										
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PROPERTY NUMBERS Total: 1																			
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11125615</td></tr></tbody></table>		Property Type	Number	Application Number:	11125615														
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CORRESPONDENCE DATA																			
Fax Number: (877)769-7945 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																			
Phone: (541) 385-9140																			
Email: morin@fr.com																			
Correspondent Name: Celia H. Leber																			
Address Line 1: FISH & RICHARDSON P.C.																			
Address Line 2: P.O.BOX 1022																			
Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022																			
ATTORNEY DOCKET NUMBER:	06275-131003																		

PATENT

500237302

REEL: 018994 FRAME: 0512

CH \$40.00 11125615

NAME OF SUBMITTER:

Darlene J. Morin

Total Attachments: 6

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PATENT

REEL: 018994 FRAME: 0513

ASSIGNMENT

For valuable consideration, we, Stefan Friess of Blankeneser Landstrasse 98, D-22587 Hamburg, Germany; Harald Heckenmueller of Wuelpensand 13, D-22559 Hamburg, Germany; Uwe Rollwage of Hollandweg 13 A, D-25421 Pinneberg, Germany; and Volker Tiedemann of Gechwister-Scholl-Allé 85, D-25524 Itzehoe, Germany; hereby assign to ASTRA AKTIEBOLAG, a Swedish corporation having a place of business at S-151 85 Södertälje, Sweden, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us this day, entitled INHALATION DEVICE; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at
this ...30..... day of ...March....., 1998

.....
Stefan Friess

L.S.

Witnessed by:
Ute Kuhl

Name:Ute Kuhl.....

Date: 30 March 1998

Witnessed by:
Claudia Schneider

Name:Claudia Schneider.....

Date: 30 March 1998

PATENT

REEL: 018994 FRAME: 0514

IN WITNESS WHEREOF, I hereto set my hand and seal at,
this 30 day of March, 1998

Harald Heckenmueller
Harald Heckenmueller

L.S.

Witnessed by: Ute Kühl

Name: Ute Kühl

Date: 30 March 1998

Witnessed by: Claudia Schneider

Name: Claudia Schneider

Date: 30 March 1998

IN WITNESS WHEREOF, I hereto set my hand and seal at,
this 2 day of April, 1998.

Uwe Rollwage
Uwe Rollwage

L.S.

Witnessed by: Ute Kühl

Name: Ute Kühl


Date: 2 April 1998

Witnessed by: Claudia Schneider

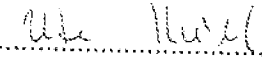
Name: Claudia Schneider

Date: 2 April 1998

IN WITNESS WHEREOF, I hereto set my hand and seal at,
this ...27..... day of ...March....., 19.98

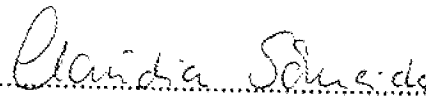

Volker Tiedemann

L.S.

Witnessed by: 

Name:Ute Kühl.....

Date: 27 March 1998

Witnessed by: 

Name:Claudia Schneider.....

Date: 27 March 1998

ASSIGN.AFT

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ASSIGNMENT

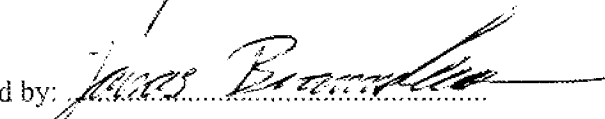
For valuable consideration, we, Jan Andersson of Lundavägen 5, S-247 34 Södra Sandby, Sweden; Allan Dagsland of Musseronvägen 13, S-374 40 Karlshamn, Sweden; Hans Strid of Idrottsvägen 28, S-234 32 Lomma, Sweden; and Jan Trofast of Vapenkroken 34, S-226 47 Lund, Sweden; hereby assign to ASTRA AKTIEBOLAG, a Swedish corporation having a place of business at S-151 85 Södertälje, Sweden, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us this day, entitled INHALATION DEVICE; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at,
this 6..... day of April....., 1998


.....
Jan Andersson

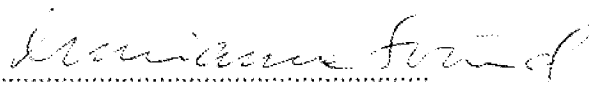
L.S.

Witnessed by:


.....
Name: Jonas Brannebo

Date: 6 April 1998

Witnessed by:


.....
Name: Marianne Svärd

Date: 6 April 1998

IN WITNESS WHEREOF, I hereto set my hand and seal at,
this ..6..... day of April....., 19..98

Allan Dagsland

L.S.

Allan Dagsland

Witnessed by:

Petra Larsson

Name: Petra Larsson.....

Date: 6 April 1998

Witnessed by:

Petra Svensson

Name: Petra Svensson.....

Date: 6 April 1998

* * *

IN WITNESS WHEREOF, I hereto set my hand and seal at,
this6..... day of April....., 19..98

Hans Strid

L.S.

Hans Strid

Witnessed by:

Pelle Ström

Name: Pelle Ström.....

Date: 6 April 1998

Witnessed by:

Eva Spästrand

Name: Eva Spästrand.....

Date: 6 April 1998

* * *

IN WITNESS WHEREOF, I hereto set my hand and seal at,
this 6 day of April, 1998

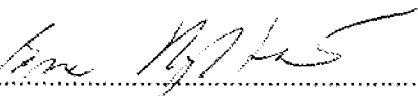

Jan Trofast

L.S.

Witnessed by: 

Name: BRITT-MARIE KARLSSON

Date: 6 April 1998

Witnessed by: 

Name: Eva Hultén

Date: 6 April 1998

ASSIGN.AFT