**PATENT ASSIGNMENT**

Electronic Version v1.1  
Stylesheet Version v1.1

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<th>SUBMISSION TYPE:</th>
<th>NEW ASSIGNMENT</th>
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| NATURE OF CONVEYANCE: | ASSIGNMENT |

**CONVEYING PARTY DATA**

<table>
<thead>
<tr>
<th>Name</th>
<th>Execution Date</th>
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<tbody>
<tr>
<td>Justin Fairfield Bower</td>
<td>05/16/2008</td>
</tr>
<tr>
<td>Peter Wedderburn Kenny</td>
<td>05/19/2008</td>
</tr>
<tr>
<td>Jeffrey Philip Poyser</td>
<td>06/10/2008</td>
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**RECEIVING PARTY DATA**

<table>
<thead>
<tr>
<th>Name</th>
<th>AstraZeneca AB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Street Address</td>
<td>SE-151 85</td>
</tr>
<tr>
<td>City</td>
<td>Sodertalje</td>
</tr>
<tr>
<td>State/Country</td>
<td>SWEDEN</td>
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**PROPERTY NUMBERS Total: 1**

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<tr>
<td>Application Number</td>
<td>12158248</td>
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**CORRESPONDENCE DATA**

Fax Number: (202)739-3001  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*

Phone: 202-739-5915  
Email: glowen@morganlewis.com  
Correspondent Name: Gregory T. Lowen, Ph.D.  
Address Line 1: 1111 Pennsylvania Avenue, N.W.  
Address Line 4: Washington, DISTRICT OF COLUMBIA 20004

**ATTORNEY DOCKET NUMBER:** 056291-5457

**NAME OF SUBMITTER:** Gregory T. Lowen

Total Attachments: 2  
source=assignment#page1.tif  
source=assignment#page2.tif
ASSIGNMENT

Now, therefore, for good and valuable consideration, receipt and sufficiency of which is hereby acknowledged, I/we

BOWER, Justin, Fairfield; and KENNY, Peter, Wedderburn; both of AstraZeneca R & D Alderley, Alderley Park, Macclesfield Cheshire, SK10 4TG, United Kingdom, and POYSER, Jeffrey, Philip of 143 Chester Road, Macclesfield, Cheshire, SK11 8PT, United Kingdom.

hereafter referred to as ASSIGNOR (S),

Hereby sell(s), assign(s) and transfer(s) to ASSIGNEE AstraZeneca AB, a company created and existing under the laws of Sweden, having its Head Office at SE-151 85 Södertälje, Sweden, and the successors, assigns and legal representatives of the ASSIGNEE, the entire right, title and interest for the United States and its territorial possessions, and in all foreign countries, in and to the inventions and any and all improvements thereon which are the subject of an application entitled:

PIPERAZINE COMPOUNDS USEFUL AS ANTAGONISTS OF C-C CHEMOKINES (CCR2B AND CCR5) FOR THE TREATMENT OF INFLAMMATORY DISEASES

And which is disclosed in:

(a) ☐ U.S. patent application executed on even date herewith;
(b) ☐ U.S. patent application executed on ____;
(c) ☐ U.S. application no. ____ filed on ____;
(d) ☑ International application no. PCT/GB2006/004732 filed on 18 December 2006 (18.12.2006).

And in and to the above application and any legal equivalent thereof in a foreign country, including the right to claim priority, and in and to any division, continuation or continuation-in-part, renewal or substitute thereof, and in and to all resulting Letters Patents or any reissue or reexamination thereof, to have and to hold the same to the full end of the term or terms for which any and all of said Letters Patent may be granted;

ASSIGNOR(S) authorize(s) and request(s) the issuing authority to issue any and all patents on said application or applications to said ASSIGNEE or its successors and assigns;

ASSIGNOR(S) hereby covenant(s) that ASSIGNOR(S) has/have the full power to make this assignment, and that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment; and

Without further payment or compensation by the ASSIGNEE or its successors and assigns, ASSIGNOR(S) further covenant(s) and agree(s) to communicate to said ASSIGNEE or its representatives, agents, its successors or assigns, any facts relating to said invention or inventions including evidence for purposes of interference or other administrative or legal proceedings whenever requested; to testify in any interference, legal or administrative proceedings, whenever requested; to execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and to do everything possible to aid said ASSIGNEE, its successors or assigns and nominees to secure, obtain and enforce proper patent protection for said invention or inventions in this or any foreign country.
Any attorney of record is authorized and requested by the execution of this assignment to insert into this assignment any further information necessary for recordation of this document.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the date below written.

BOWER, Justin, Fairfield
Signature of Assignor

16/05/08
Date of Assignor’s Signature

WITNESSED BY:

Signature of Witness
Name of Witness
(Type or print clearly)

Signature of Witness
Name of Witness
(Type or print clearly)

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the date below written.

KENNY, Peter, Wedderburn
Signature of Assignor

19/05/08
Date of Assignor’s Signature

WITNESSED BY:

Signature of Witness
Name of Witness
(Type or print clearly)

Signature of Witness
Name of Witness
(Type or print clearly)

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the date below written.

POYSER, Jeffrey, Philip
Signature of Assignor

10/06/08
Date of Assignor’s Signature

WITNESSED BY:

Signature of Witness
Name of Witness
(Type or print clearly)

Signature of Witness
Name of Witness
(Type or print clearly)

Additional signature pages attached: ☑ Yes ☐ No

RECRODED: 07/30/2008
PATENT
REEL: 021313 FRAME: 0242