

PATENT ASSIGNMENT

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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>Masaru Mitsuda</td> <td>07/11/2007</td> </tr> <tr> <td>Tadashi Moroshima</td> <td>07/11/2007</td> </tr> <tr> <td>Kentaro Tsukuya</td> <td>07/11/2007</td> </tr> <tr> <td>Kazuhiko Watabe</td> <td>07/11/2007</td> </tr> <tr> <td>Masahiko Yamada</td> <td>07/11/2007</td> </tr> </tbody> </table>		Name	Execution Date	Masaru Mitsuda	07/11/2007	Tadashi Moroshima	07/11/2007	Kentaro Tsukuya	07/11/2007	Kazuhiko Watabe	07/11/2007	Masahiko Yamada	07/11/2007
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<table border="1"> <tr> <td>Name:</td> <td>AstraZeneca AB</td> </tr> <tr> <td>Street Address:</td> <td>Head Office</td> </tr> <tr> <td>City:</td> <td>Sodertalje</td> </tr> <tr> <td>State/Country:</td> <td>SWEDEN</td> </tr> <tr> <td>Postal Code:</td> <td>SE-151 85</td> </tr> </table>		Name:	AstraZeneca AB	Street Address:	Head Office	City:	Sodertalje	State/Country:	SWEDEN	Postal Code:	SE-151 85		
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CORRESPONDENCE DATA													
<p>Fax Number: (267)430-7514 Phone: 610-640-5415 Email: machadol@pepperlaw.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Paul K. Legaard, Ph.D. Address Line 1: 400 Berwyn Park, 899 Cassatt Road Address Line 2: Pepper Hamilton LLP Address Line 4: Berwyn, PENNSYLVANIA 19312</p>													
ATTORNEY DOCKET NUMBER:	133087.19621												
NAME OF SUBMITTER:	Lisa M. Machado												
Total Attachments: 3 source=13308719621assignment#page1.tif source=13308719621assignment#page2.tif source=13308719621assignment#page3.tif													

OP \$40.00 13218688

PATENT

ASSIGNMENT

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

MITSUDA, Masaru; MOROSHIMA, Tadashi; TSUKUYA, Kentaro; WATABE, Kazuhiko; YAMADA, Masahiko all JP citizens of Kaneka Corporation, 3-2-4, Nakanoshima, Kita-Ku Osaka 530-8288, Japan

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:

A PROCESS FOR THE PREPARATION OF OPTICALLY ACTIVE INTERMEDIATES

And which is disclosed in:

- (a) ☐ U.S. patent application executed on even date herewith;
- (b) ☐ U.S. patent application executed on _____;
11/833,266
- (c) ☒ U.S. application no. _____ filed on August 3, 2007.
- (d) ☐ International application no. _____ filed on _____

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.

Masaru Mitsuda
Masaru Mitsuda
Signature of Assignor

July 11, 2007
Date of Assignor's Signature

WITNESSED BY:

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

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

Kaoru Fujita Hideo KITAHASHI

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

Tadashi Moroshima
Tadashi Moroshima
Signature of Assignor

July 11, 2007
Date of Assignor's Signature

WITNESSED BY:

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

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

Kaoru Fujita Hideo KITAHASHI

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

Kentaro Tsukuya
Kentaro Tsukuya
Signature of Assignor

July 11, 2007
Date of Assignor's Signature

WITNESSED BY:

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

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

Kaoru Fujita Hideo KITAHASHI

Additional signature pages attached: ☒ Yes ☐ No

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

Kazuhiko Watabe
Kazuhiko Watabe
Signature of Assignor

July 11, 2007
Date of Assignor's Signature

WITNESSED BY:

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

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

Kaoru Fujita Hideo KITAHASHI

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

Masahiko Yamada
Masahiko Yamada
Signature of Assignor

July 11, 2007
Date of Assignor's Signature

WITNESSED BY:

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

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

Kaoru Fujita Hideo KITAHASHI

Additional signature pages attached: ☐ Yes ☒ No