502163610 12/14/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Petra BLOMS-FUNKE	08/01/2012
Derek John SAUNDERS	08/06/2012
Eric LANG	11/30/2012

RECEIVING PARTY DATA

Name:	Gruenenthal GmbH
Street Address:	Zieglerstrasse 6
City:	Aachen
State/Country:	GERMANY
Postal Code:	D-52078

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13560412

CORRESPONDENCE DATA

Fax Number: 2026288844

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 2026242500

Email: Galemousavi@crowell.com

Correspondent Name: Crowell & Moring LLP

Address Line 1: P.O. Box 14300

Address Line 4: Washington, DISTRICT OF COLUMBIA 20044-4300

ATTORNEY DOCKET NUMBER: 106930.63094US

NAME OF SUBMITTER: Joseph D. Evans, Reg. No. 26,269

Total Attachments: 3

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> PATENT REEL: 029472 FRAME: 0332

OF \$40.00 13560412

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto:

Gruenenthal GmbH Zieglerstrasse 6 D-52078 Aachen, Germany

(hereinafter ASSIGNEE) all right, title and interest in and to his/her invention relating to: Intrathecal or Epidural Administration of 3-[(1S,2S)-3-(Dimethylamino)-1-Ethyl-2-Methylpropyll Phenol in any form or embodiment thereof, in the United States and all foreign countries, including applications for patents in all countries through the world and through the Patent Cooperation Treaty and/or the European Patent Convention, as set forth in his/her United States Patent Application (check one): executed concurrently herewith, executed on . Serial No., filed, and in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been Each of the undersigned hereby authorizes and requests the Director of the U.S. Patent and Trademark Office to issue any and all such Letters patent to said ASSIGNEE, its successors or assigns in accordance herewith; Each of the undersigned warrants and covenants that he/she has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he/she has not executed and will not execute any document or instrument in conflict herewith; Each of the undersigned further covenants and agrees he/she will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him/her relating to said invention or patent application and that he/she will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention; Each of the undersigned hereby grants the firm of CROWELL & MORING LLP, or any partner thereof, the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment. Signature: Inventor one: Signature: Inventor two: Derek John SAUNDERS DATE Signature: Inventor three: Eric LANG DATE

Note: Prima facie evidence of execution may optionally be obtained by execution of this document before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.

Page 1 of 1

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	D-52078 Aachen, Germany	
(hereinafter ASSIGNEE) all right, ti	itle and interest in and to his/her invention relating to:	
Intrathecal or Epidural	Administration of 3-[(1S,2S)-3-(Dimethyla Methylpropyl]Phenol	amino)-1-Ethyl-2-
in all countries through the worl	in the United States and all foreign countries, including and through the Patent Cooperation Treaty and/Inited States Patent Application (check one):	
executed concurr executed on , Serial No. , filed		
and to any and all Letters Patent of including any and all reissues or ex- representatives and assigns to the	tent Application including any and all divisions or cor the United States which may issue on any such applica- tensions thereof, to be held and enjoyed by said ASSIG- full end of the term or terms for which any and all su ld have been held and enjoyed by the undersigned had	ntion or for said invention, NEE, its successors, legal ch Letters patent may be
Each of the undersigned hereby au issue any and all such Letters paten	thorizes and requests the Director of the U.S. Patent t to said ASSIGNEE, its successors or assigns in accord	and Trademark Office to lance herewith;
Each of the undersigned warrants a the interests herein sold and assig instrument in conflict herewith;	nd covenants that he/she has the full and unencumber med and that he/she has not executed and will not	ed right to sell and assign execute any document or
legal representatives or assigns all and that he/she will execute and do perform all other lawful acts deemed or assigns to perfect title to said in any and all Letters Patent which: ASSIGNEE, its successors, or assign	venants and agrees he/she will communicate to said A information known to him/her relating to said invented invented invented invented invented invented invented in a said application including divisions and commanded invented invented invented in the said application including divisions and commanded invented invented invented in the said assist said ASSIGNEE, its successors, legal reporters Patent of the United States for said invention;	tion or patent application my legal proceedings and sors, legal representatives atinuations thereof and to les or extensions, in said
to insert in this Assignment any fur	nts the firm of CROWELL & MORING LLP, or any p ther identification which may be necessary or desirable ffice for recordation of this Assignment.	partner thereof, the power to comply with the rules
Signature: Inventor one:	Petra BLOMS-FUNKE	DATE
Signature: Inventor two:	Derek John SAUNDERS	6Am 2012 DATE
Signature:		
Inventor three:	Eric LANG	DATE
		garage and the

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(hereinafter ASSIGNEE) all righ	nt, title and interest in and to his/her inve	ention relating to:
		-3-(Dimethylamino)-1-Ethyl-2-
in an connectes through the M	eof, in the United States and all foreign coord and through the Patent Coopera or United States Patent Application (check	ountries, including applications for patent tion Treaty and/or the European Paten k one):
executed conce executed on ,	urrently herewith, 560,412, filed July 27, 2012,	
and in and to said United States and to any and all Letters Patent including any and all reissues or representatives and assigns to the	Patent Application including any and a of the United States which may issue on extensions thereof, to be held and enjoyed the full end of the term or terms for which	Il divisions or continuations thereof and in any such application or for said invention ed by said ASSIGNEE, its successors, lega th any and all such Letters patent may be undersigned had this Assignment not been
Each of the undersigned hereby issue any and all such Letters pat	authorizes and requests the Director of tent to said ASSIGNEE, its successors or	the U.S. Patent and Trademark Office to assigns in accordance herewith;
Each of the undersigned warrants	s and covenants that he/she has the full	and unencumbered right to sell and assigned and will not execute any document or
and that he/she will execute and perform all other lawful acts deem or assigns to perfect title to said i any and all Letters Patent which ASSIGNEE, its successors, or assigns to perfect title to said it and the said it an	all information known to him/her relating deliver any papers, make all rightful of the decessary or desirable by said ASSIG invention, to said application including of the may be granted therefor or thereon.	micate to said ASSIGNEE, its successors of the said invention or patent application aths, testify in any legal proceedings and invertions and continuations thereof and to including reissues or extensions, in said sessors, legal representatives or assigns in d invention;
to moert in this Assignment any h	rants the firm of CROWELL & MORINgerther identification which may be necest Office for recordation of this Assignment	G LLP, or any partner thereof, the power sary or desirable to comply with the rules
Signature:		
Inventor one:	Petra BLOMS-FUNKE	DATE
Signature:		
nventor two:	Derek John SAUNDERS	DATE
Signature:	_ {	11/30/2012
nventor three:	Eric LANG	DATE
Note: Prima facie evidence of exect a local officer authorized to admini	ution may optionally be obtained by execution of this ster oaths whose authority is proved by a certificate	document before a U.S. Consul or before from a U.S. Consul.

Page I of I

RECORDED: 12/14/2012