PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4819760

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------|----------------|
| STEFAN DIETHELM | 12/13/2017 |
| PHILIPPE PANCHAUD | 12/13/2017 |
| GEORG RUEEDI | 12/13/2017 |
| JEAN-PHILIPPE SURIVET | 12/13/2017 |

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

| Property Type | Number | |
|---------------------|----------|--|
| Application Number: | 15751596 | |

CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | 038651.00055 | |
|-------------------------|---------------|--|
| NAME OF SUBMITTER: | SCOTT DODGE | |
| SIGNATURE: | /Scott Dodge/ | |
| DATE SIGNED: | 02/12/2018 | |

Total Attachments: 1

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PATENT REEL: 044893 FRAME: 0806

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Docket No. 038651.00055

U.S. CONFIRMATORY ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by

| consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by | | | | | | | |
|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--|--|
| [Insert ASSIGNEE's Name(s) Address(es)] | Actelion Phar | maceuticals Ltd. C | Sewerbestrasse 16, 412. | 3 Allschwil, Sy | vitzerland | | |
| [Title of | (hereinafter ASSIGNEE) hereby acknowledges and to the employment agree said ASSIGNEE, its succeand transferred under Uthroughout the world, dependencies), the entire infringement, if any, and SURSTITUTED 1.2 | d confirms that ASS ment between the Assessors, assigns and S. law hereby assigning the United Including the Unite | SIGNOR has previously ASSIGNOR and ASSIGNOR and ASSIGN legal representatives, as gns and transfers, its eruited States of Ameright, title and interest, in | assigned and NEE and laws and to the extention right, title ca (including neluding the invention entites. | transferred, pursuant of Switzerland, unto t not earlier assigned and interest in and its territories and ight to sue for past led | | |
| Invention) | | *************************************** | *************************************** | *************************************** | 2000 | | |
| [*If the assignment is being filed | for which application for otherwise indicated below | Letters Patent of th | e United States was exe | cuted on even | date herewith unless | | |
| after the filing of the application, this | filed on | February 9, 2018 | , Serial No. | 15/751,596 | S | | |
| section must be completed] | (Arent Fox LLP is hereb | (Arent Fox LLP is hereby authorized to insert the seriex code, serial number and/or filing date hereon, when known) | | | | | |
| | division, renewal, substi | and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute, reissue or reexamination thereof, and any other application claiming priority thereto, for the full term or terms for which the same may be granted. | | | | | |
| | The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuing, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient. | | | | | | |
| | The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding. | | | | | | |
| | IN WITNESS WHEREO | F, the undersigned in | nventor(s) has (have) aff | ixed his/her/th | eir signature(s). | | |
| (Signaturo(s) | | | Stefan DIETHEL | | 13.12.13 | | |
| of Assignor(s)] | (SIGNATURE |) Comments | (TYPE NAME) |) | (DATE) | | |
| | (SR)NATURE | | Philippe PANCHA (TYPE NAME) | *************************************** | (3.12.1) (DATE) | | |
| | (SIGNATURE | - ;{4 <u>`</u> | Georg RUEED (TYPE NAME) | | 13, 12, 2017 (DATE) | | |
| | Kupel | sk September 19 | Jean-Philippe SURI | Vet | 13-12-2017 | | |
| | (BIGNATURE |) | (TYPE NAME) | | (DATE) | | |
| | aturis. | | | | | | |

PATENT REEL: 044893 FRAME: 0807

RECORDED: 02/12/2018