504595298 10/16/2017

PATENT ASSIGNMENT COVER SHEET

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

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| DOLORES SCHENDEL | 09/19/2017 |
| CHRISTIAN ELLINGER | 09/19/2017 |

RECEIVING PARTY DATA

| Name: | HELMHOLTZ ZENTRUM MÜNCHEN-DEUTSCHES FORSCHUNGSZENTRUM FÜR GESUNDHEIT UND UMWELT (GMBH) | |
|-----------------|---|--|
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| City: | NEUHERBERG | |
| State/Country: | GERMANY | |
| Postal Code: | 85764 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15558765 |

CORRESPONDENCE DATA

Fax Number: (404)645-7707

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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| ATTORNEY DOCKET NUMBER: | 10591-014US1 |
|-------------------------|----------------|
| NAME OF SUBMITTER: | JULIA RUDICK |
| SIGNATURE: | /Julia Rudick/ |
| DATE SIGNED: | 10/16/2017 |

Total Attachments: 4

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ASSIGNMENT

For valuable consideration, we, Dolores SCHENDEL of Hans-Sachs-Strasse 12, IV, 80469 Munich; and Christian ELLINGER of Reisingerstrasse 3, 80337 München, hereby assign to HELMHOLTZ ZENTRUM MÜNCHEN-DEUTSCHES FORSCHUNGSZENTRUM FÜR GESUNDHEIT UND UMWELT (GMBH), a corporation of Germany, having a place of business at Ingolstädter Landstraße 1, 85764 Neuherberg, Germany, and its successors and assigns (collectively hereinafter "the Assignee"), the entire right, title, and interest throughout the world in the inventions and improvements that are subject of an application for United States Patent, entitled "METHOD OF DETECTING NEW IMMUNOGENIC T CELL EPITOPES AND ISOLATING NEW ANTIGEN-SPECIFIC T CELL RECEPTORS BY MEANS OF AN MHC CELL LIBRARY," filed September 15, 2017 , and assigned U.S. Patent Application No. _15/558,765 , [WE authorized Meunier Carlin & Curfman LLC the rights to make the necessary changes to the assignments before filing which will include the Application Number and Filing Date], which is a filing under 35 USC §371 of PCT Serial Number PCT/EP2016/055518 filed March 15, 2016, which claims priority to European Patent Application No. 15159212.8 filed March 16, 2015; this assignment including said application, any and all divisional, continuing, substitute, renewal, reissue and all other applications for patent that have been or shall be filed in the United States and all foreign countries on any such inventions or improvements; all original and reissued patents that have been or shall be issued in the United States and all foreign countries on such inventions or improvements; 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, 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,

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Attorney Docket No. 10591-014USI

Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

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PATENT REEL: 043872 FRAME: 0353

Attorney Docket No. 10591-014US1

| Date: 19.09.2017 | Nobel Q Sopoudel |
|----------------------|---|
| | Dolores SCHENDEL |
| WITNESSED BY:// | ~ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |
| | The HM |
| Signature of Witness | Signature of Witness |
| Milosevic Scavolyus | SILKE PAFFEGERST |
| Name of Witness | Name of Witness |
| 15.09 2014 | 19 Sept 2017 |
| Date | Date |

Attorney Docket No. 10591-014US1

| Date: <u>19. Sept. 2</u> 27 | |
|-----------------------------|----------------------|
| | Christian ELLINGER |
| WITNESSED BY: | |
| Signature of Witness | Signature of Witness |
| MANON WEIS | _ CARWA WEHNER |
| Name of Witness | Name of Witness |
| 19. Spl. 2012 | <u>19. Ip. 2019</u> |

Assignment Page 4 of 4

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RECORDED: 10/16/2017