505582520 07/22/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT

NOTICE OF GRANT OF SECURITY INTEREST IN INTELLECTUAL PROPERTY

EPAS ID: PAT5629319

CONVEYING PARTY DATA

NATURE OF CONVEYANCE:

Name	Execution Date
MALLINCKRODT LLC	07/19/2019

RECEIVING PARTY DATA

Name:	DEUTSCHE BANK AG NEW YORK BRANCH, AS COLLATERAL AGENT
Street Address:	60 WALL STREET
City:	NEW YORK
State/Country:	NEW YORK
Postal Code:	10005

PROPERTY NUMBERS Total: 3

Property Type	Number
Application Number:	15457674
Application Number:	16030575
Application Number:	15761676

CORRESPONDENCE DATA

Fax Number:

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.

Phone: 2136207848

Email: iprecordations@whitecase.com

Correspondent Name: JUSTINE LU/WHITE & CASE LLP

Address Line 1: 555 SOUTH FLOWER STREET, 2700

Address Line 4: LOS ANGELES, CALIFORNIA 90071

ATTORNEY DOCKET NUMBER:	1111779-2659-S216
NAME OF SUBMITTER:	JUSTINE LU
SIGNATURE:	/Justine Lu/
DATE SIGNED:	07/22/2019

Total Attachments: 5

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PATENT REEL: 049822 FRAME: 0830

Notice of Grant of Security Interest in Intellectual Property

NOTICE OF GRANT OF SECURITY INTEREST IN PATENTS, dated as of July 19, 2019 (this "Agreement"), made by Mallinckrodt LLC, a Delaware limited liability company (the "Pledgor"), in favor of DEUTSCHE BANK AG NEW YORK BRANCH, as Collateral Agent (as defined below).

Reference is made to the U.S. Collateral Agreement dated as of March 19, 2014 (as amended, restated, supplemented or otherwise modified from time to time, the "U.S. Collateral Agreement"), among Mallinckrodt International Finance S.A., a public limited liability company (société anonyme) incorporated under the laws of the Grand Duchy of Luxembourg, having its registered office at 124, boulevard de la Pétrusse, L-2330 Luxembourg, and registered with the Luxembourg Trade and Companies Register (R.C.S. Luxembourg) under number B 172.865 (the "Lux Borrower"), MALLINCKRODT CB LLC (the "Co-Borrower", and together with the Lux Borrower, the "Borrowers"), Mallinckrodt Holdings GmbH (as successor by merger to Mallinckrodt Finance GmbH) (the "Swiss Finco"), each other Subsidiary Loan Party listed on the signature pages hereof and each other Subsidiary Loan Party that becomes a party hereto after the date hereof and DEUTSCHE BANK AG NEW YORK BRANCH, as collateral agent (together with its successors and assigns in such capacity, the "Collateral Agent") for the Secured Parties (as defined therein). The parties hereto agree as follows:

SECTION 1. *Terms*. Capitalized terms used in this Agreement and not otherwise defined herein have the meanings specified in the U.S. Collateral Agreement. The rules of construction specified in Section 1.01(b) of the U.S. Collateral Agreement also apply to this Agreement.

SECTION 2. *Grant of Security Interest*. As security for the payment and performance, as applicable, in full of its Secured Obligations, the Pledgor pursuant to the U.S. Collateral Agreement did, and hereby does, assign and pledge to the Collateral Agent, its successors and permitted assigns, for the benefit of the Secured Parties, a continuing security interest in all of such Pledgor's right, title and interest in, to and under any and all of the following assets now owned or at any time hereafter acquired by such Pledgor or in which such Pledgor now has or at any time in the future may acquire any right, title or interest (collectively, but excluding any Excluded Property, the "IP Collateral"):

all Patents of the United States of America, including those listed on Schedule I;

SECTION 3. *U.S. Collateral Agreement*. The security interests granted to the Collateral Agent herein are granted in furtherance, and not in limitation of, the security interests granted to the Collateral Agent pursuant to the U.S. Collateral Agreement. The Pledgor hereby acknowledges and affirms that the rights and remedies of the Collateral Agent with respect to the IP Collateral are more fully set forth in the U.S. Collateral Agreement, the terms and provisions of which are hereby incorporated herein by reference as if fully set forth herein. In the event of any conflict between the terms of this Agreement and the U.S. Collateral Agreement, the terms of the U.S. Collateral Agreement shall govern.

PATENT REEL: 049822 FRAME: 0831 SECTION 4. *Counterparts*. This Agreement may be executed in two or more counterparts, each of which shall constitute an original but all of which when taken together shall constitute but one contract. Delivery of an executed counterpart to this Agreement by facsimile or other electronic transmission shall be as effective as delivery of a manually signed original.

SECTION 5. Governing Law. THIS AGREEMENT AND ANY CLAIMS, CONTROVERSY, DISPUTE OR CAUSES OF ACTION (WHETHER IN CONTRACT OR TORT OR OTHERWISE) BASED UPON, ARISING OUT OF OR RELATING TO THIS AGREEMENT SHALL BE CONSTRUED IN ACCORDANCE WITH AND GOVERNED BY THE LAWS OF THE STATE OF NEW YORK.

[Signature Pages Follow]

PATENT REEL: 049822 FRAME: 0832 IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement as of the day and year first above written.

MALLINCKRODT LLC

Title: Vice President & Treasurer

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DEUTSCHE BANK AG NEW YORK BRANCH, as Collateral Agent,

Ву:____

Name: Yum Okabe
Title: Vice Presiden

By: /

Name: Title:

Alicia Schug

Vice President

Schedule I to Notice of Grant of Security Interest in Patents

U.S. Patent Registrations

N/A

U.S. Patent Applications

Patent	Application No.	Application Date	Owner
COMBINATION PAIN	15/457674	March 13,	Mallinckrodt
PRODUCT WITH RAPID UPSTROKE AND EX-		2017	LLC
TENDED RELEASE			
LIPOSOME COMPOSITIONS	16/030575	July 9, 2018	Mallinckrodt
CONTAINING CISPLATIN FOR CANCER THERAPY			LLC
IMPROVED STABILITY OF	15/761676	March 20,	Mallinckrodt
LIPOSOME FORMU-		2018	LLC
LATIONS AND USES			
THEREOF			

PATENT REEL: 049822 FRAME: 0835

RECORDED: 07/22/2019