04/02/2018 504848672

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4895410

SUBMISSION TYPE:	NEW ASSIGNMENT			
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST			

CONVEYING PARTY DATA

Name	Execution Date
DEUTSCHE BANK AG NEW YORK BRANCH	03/16/2018

RECEIVING PARTY DATA

Name:	MALLINCKRODT PHARMA IP TRADING DESIGNATED ACTIVITY COMPANY
Street Address:	COLLEGE BUSINESS & TECHNOLOGY PARK
Internal Address:	CRUISERATH, BLANCHARDSTOWN
City:	DUBLIN
State/Country:	IRELAND
Postal Code:	15

PROPERTY NUMBERS Total: 1

Property Type	Number			
Application Number:	14804669			

CORRESPONDENCE DATA

Fax Number: (312)827-8185

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: 312-372-1121

chicago.patents@klgates.com Email:

Correspondent Name: K&L GATES LLP Address Line 1: P.O. BOX 1135

Address Line 4: CHICAGO, ILLINOIS 60690-1135

ATTORNEY DOCKET NUMBER:	3712044.05215
NAME OF SUBMITTER:	KELLY A. PLUMMER
SIGNATURE:	/Kelly A. Plummer/
DATE SIGNED:	04/02/2018

Total Attachments: 5

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> **PATENT REEL: 045412 FRAME: 0826**

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PATENT REEL: 045412 FRAME: 0827

RELEASE OF SECURITY INTEREST IN PATENT COLLATERAL

This RELEASE, dated as of March 16, 2018, is made by Deutsche Bank AG New York Branch, as Collateral Agent (the "Agent"), in favor of Mallinckrodt Pharma IP Trading DAC (the "Grantor") as follows:

WITNESSETH

WHEREAS, pursuant to (a) the U.S. Collateral Agreement, dated as of March 19, 2014, by and among Mallinckrodt International Finance S.A., MALLINCKRODT CB LLC, Mallinckrodt Finance GmbH, each other Subsidiary Loan Party (as defined therein) from time to time party thereto and Agent (as such agreement may be amended, restated, supplemented or otherwise modified from time to time, the "Collateral Agreement"), and (b) the Notice of Grant of Security Interest in Patents, dated as of August 17, 2017, by and among the Grantor, certain other Pledgors (as defined therein) and Agent (the "Patent Security Agreement"), the Grantor granted the Agent, for the benefit of the "Secured Parties" (as defined in the Collateral Agreement), a continuing security interest in all of its right, title and interest in, to and under the "IP Collateral" (as defined in the Patent Security Agreement);

WHEREAS, the Patent Security Agreement was recorded with the U.S. Patent and Trademark Office on August 18, 2017 at Reel/Frame No. 043596/0259; and

WHEREAS, in accordance with the Collateral Agreement, the Grantor has requested that the Agent release its Liens on and security interest in all right, title and interest in, to and under the Patents currently owned by the Grantor being referred to herein and set forth on Schedule A attached hereto (the "Released IP Collateral").

NOW, THEREFORE, the Agent, without recourse to it or representation or warranty by it, and at the Grantor's sole cost and expense, hereby, on behalf of itself and the Secured Parties, terminates, cancels and releases its and the Secured Parties' Liens on and security interest in the Released IP Collateral, and any and all right, title and interest of the Agent and the Secured Parties in the Released IP Collateral shall hereby terminate, cease and become void.

The Agent agrees to provide the Grantor with any information and additional authorization and documentation necessary to effect the release of the Agent's security interest in the Released IP Collateral (without recourse to it or representation or warranty by it, and at the Grantor's sole cost and expense and otherwise in accordance with Section 9.18 of the Credit Agreement and Section 5.15 of the Collateral Agreement).

Capitalized terms used herein without definition are used as defined in the Collateral Agreement.

[Signature Page Follows]

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PATENT REEL: 045412 FRAME: 0828 IN WITNESS WHEREOF, the Agent has caused this Release to be duly executed and delivered, on behalf of itself and the Secured Parties, by its duly authorized officer as of the date first written above.

DEUTSCHE BANK AG NEW YORK BRANCH, as Collateral Agent

Name: Title:

Marguerite Sut Vice/Presiden

By: / Name: Title:

Maria Guinchard
Vice President

SCHEDULE A

PATENTS AND PATENT APPLICATIONS

No.	Invention Title	App. No.	App. Date.	Reg.	Reg. Date	Owner
1.	THROMBIN COMPOSITIONS	11/157707	6/21/2005	7393674	7/1/2008	Mallinckrodt Pharma IP Trading Designated Activity Company
2.	THROMBIN COMPOSITIONS	11/539276	10/6/2006	7473543	1/6/2009	Mallinckrodt Pharma IP Trading Designated Activity Company
3.	METHOD FOR ACTIVATING PRETHROMBIN-1	12/097027	6/11/2008	8062876	11/22/2011	Mallinckrodt Pharma IP Trading Designated Activity Company
4.	STABILIZED THROMBIN COMPOSITIONS	12/138922	6/13/2008	8071090	12/6/2011	Mallinckrodt Pharma IP Trading Designated Activity Company
5.	THROMBIN ACTIVATOR COMPOSITIONS AND METHODS OF MAKING AND USING THE SAME	12/935235	2/7/2011	8759066	6/24/2014	Mallinckrodt Pharma IP Trading Designated Activity Company
6.	HEMOSTATIC MICROSPHERES	12/935114	2/7/2011	9629798	4/25/2017	Mallinckrodt Pharma IP Trading Designated Activity Company
7.	MEDICAL DEVICES FOR DELIVERING FLUIDS DURING SURGERY AND METHODS FOR THEIR USE	12/988353	12/30/2010	9597062	3/21/2017	Mallinckrodt Pharma IP Trading Designated Activity Company
8.	MEDICAL DEVICES FOR DELIVERING FLUIDS DURING SURGERY AND METHODS FOR THEIR USE	15/422114	2/1/2017			Mallinckrodt Pharma IP Trading Designated Activity Company
9.	BIOCOMPATABLE PHASE INVERTABLE PROTEINACEOUS COMPOSITIONS AND METHODS FOR MAKING AND USING THE SAME	12/326835	12/2/2008	8198363	6/12/2012	Mallinckrodt Pharma IP Trading Designated Activity Company
10.	BIOCOMPATABLE PHASE INVERTABLE PROTEINACEOUS	12/757432	4/9/2010	9155815	10/13/2015	Mallinckrodt Pharma IP Trading Designated Activity

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PATENT REEL: 045412 FRAME: 0830

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