505977186 03/20/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6023894

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date	
ALKERMES, INC.	03/17/2020	

RECEIVING PARTY DATA

Name:	MORGAN STANLEY SENIOR FUNDING, INC.
Street Address:	1585 BROADWAY
City:	NEW YORK
State/Country:	NEW YORK
Postal Code:	10036

PROPERTY NUMBERS Total: 11

Property Type	Number
Application Number:	62932808
Application Number:	16519231
Patent Number:	10407481
Application Number:	62965578
Application Number:	62883816
Application Number:	62883852
Application Number:	62883863
Application Number:	62883823
Application Number:	62883870
Application Number:	62883837
Application Number:	62969841

CORRESPONDENCE DATA

Fax Number: (202)787-5520

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: 2027875523

Email: ilona@morriskamlay.com
Correspondent Name: MORRIS & KAMLAY LLP
Address Line 1: 1911 FORT MYER DRIVE

Address Line 2: SUITE 1050

Address Line 4: ARLINGTON, VIRGINIA 22209

ATTORNEY DOCKET NUMBER:	505200-500402
NAME OF SUBMITTER:	ILONA WORMACK
SIGNATURE:	/llona Wormack/
DATE SIGNED:	03/20/2020

Total Attachments: 7

source=401983244_2(Alkermes - IP - Alkermes Patent Security Agreement (March 17, 2020) [EXECUTED])#page1.tif

source=401983244_2(Alkermes - IP - Alkermes Patent Security Agreement (March 17, 2020) [EXECUTED])#page2.tif

source=401983244_2(Alkermes - IP - Alkermes Patent Security Agreement (March 17, 2020) [EXECUTED])#page3.tif

source=401983244_2(Alkermes - IP - Alkermes Patent Security Agreement (March 17, 2020) [EXECUTED])#page4.tif

source=401983244_2(Alkermes - IP - Alkermes Patent Security Agreement (March 17, 2020) [EXECUTED])#page5.tif

source=401983244_2(Alkermes - IP - Alkermes Patent Security Agreement (March 17, 2020) [EXECUTED])#page6.tif

source=401983244_2(Alkermes - IP - Alkermes Patent Security Agreement (March 17, 2020) [EXECUTED])#page7.tif

PATENT SECURITY AGREEMENT

This PATENT SECURITY AGREEMENT, dated as of March 17, 2020 ("<u>Patent Security Agreement</u>"), made by ALKERMES, INC., a corporation organized under the laws of the Commonwealth of Pennsylvania located at 852 Winter Street Waltham, Massachusetts (the "<u>Grantor</u>"), is in favor of MORGAN STANLEY SENIOR FUNDING, INC., as collateral agent (in such capacity, the "<u>Collateral Agent</u>") for the Secured Parties.

WITNESSETH:

WHEREAS, the Grantor is party to a First Lien Guarantee and Collateral Agreement, dated as of September 16, 2011, as amended on September 25, 2012 (the "Guarantee and Collateral Agreement") in favor of the Collateral Agent and MORGAN STANLEY SENIOR FUNDING, INC., as administrative agent (in such capacity, the "Administrative Agent") pursuant to which the Grantor is required to execute and deliver this Patent Security Agreement (capitalized terms used but not otherwise defined herein shall have the meanings given to them in the Guarantee and Collateral Agreement);

WHEREAS, pursuant to the terms of the Guarantee and Collateral Agreement, Grantor has created in favor of the Collateral Agent a security interest in the Patent Collateral (as defined below);

NOW, THEREFORE, in consideration of the premises and to induce the Agents and the Lenders to enter into the Credit Agreement and to induce Lenders to make their respective extensions of credit to the Borrower thereunder and to induce the Qualified Counterparties to enter into the Specified Hedge Agreements and provide financial accommodation, Grantor hereby agrees with the Collateral Agent, for the benefit of the Secured Parties, as follows:

Grantor hereby grants to the Collateral Agent, for the benefit of the Secured Parties, a security interest in all of the following property now owned or at any time hereafter acquired by Grantor or in which Grantor now has or at any time in the future may acquire any right, title or interest (collectively, the "Patent Collateral"), as collateral security for the complete payment and performance when due (whether at the stated maturity, by acceleration or otherwise) of all Secured Obligations:

- (a) all patents, patent applications, certificates of inventions, industrial designs (whether issued or applied for in the United States or any other country or any political subdivision thereof), including, without limitation, each issued patent and patent application identified on Schedule 1 attached hereto, together with any and all (i) inventions and improvements described and claimed therein, (ii) reissues, divisions, continuations, extensions and continuations-in-part thereof and amendments thereto, (iii) income, fees, royalties, damages, and payments now and hereafter due and/or payable under or with respect to any of the foregoing, including, without limitation, damages, claims and payments for past, present and future infringements, misappropriations and other violations of any of the foregoing and (v) rights, priorities, and privileges corresponding to any of the foregoing throughout the world ("Patents") of such Grantor, including, without limitation, the registered and applied for Patents of such Grantor listed on Schedule 1 attached hereto; and
- (b) all Proceeds of any of the foregoing;

provided, that (i) this Patent Security Agreement shall not constitute a grant of a security interest in any property to the extent that and for as long as such grant of a security interest would be prohibited by the terms of the Guarantee and Collateral Agreement; and (ii) the security interest granted hereby (A) shall attach at all times to all proceeds of such property, (B) shall attach to such property immediately and automatically (without need for any further grant or act) at such time as the condition described in clause (i) ceases to exist and (C) to the extent severable, shall, in any event, attach to all rights in respect of such property that are not subject to the applicable condition described in clause (i).

The security interest granted pursuant to this Patent Security Agreement is granted concurrently and in conjunction with security interest granted to the Collateral Agent pursuant to the Guarantee and Collateral Agreement and Grantor hereby acknowledges and affirms that the rights and remedies of the Collateral Agent with respect to the security interest in the Patents made and granted hereby are more fully set forth in the Guarantee and Collateral Agreement. In the event that any provision of this Patent Security Agreement is deemed to conflict with the Guarantee and Collateral Agreement, the provisions of the Guarantee and Collateral Agreement shall govern.

The term of this Patent Security Agreement shall be co-terminus with the Guarantee and Collateral Agreement.

Grantor hereby authorizes and requests that, with respect to the Intellectual Property listed on <u>Part 1</u> of <u>Schedule 1</u>, the Commissioner of Patents and Trademarks record this Patent Security Agreement and that, with respect to the Intellectual Property listed on <u>Part 2</u> of <u>Schedule 1</u>, the appropriate filing office in the Republic of Ireland record this Patent Security Agreement.

THIS PATENT SECURITY AGREEMENT AND THE RIGHTS AND OBLIGATIONS OF THE PARTIES UNDER THIS PATENT SECURITY AGREEMENT SHALL BE GOVERNED BY, AND CONSTRUED AND INTERPRETED IN ACCORDANCE WITH, THE LAWS OF THE STATE OF NEW YORK.

This Patent Security Agreement may be executed by one or more of the parties to this Patent Security Agreement on any number of separate counterparts, and all of said counterparts taken together shall be deemed to constitute one and the same instrument. Delivery of an executed signature page of this Patent Security Agreement by facsimile transmission or electronic transmission (in PDF format) shall be effective as delivery of a manually executed counterpart hereof. A set of the copies of this Patent Security Agreement signed by all the parties shall be lodged with the Borrower, the Administrative Agent and the Collateral Agent.

[Remainder of This Page Intentionally Left Blank.]

IN WITNESS WHEREOF, each Grantor has caused this PATENT SECURITY AGREEMENT to be executed and delivered by its duly authorized officer as of the date first above written.

ALKERMES, INC.

Name: David J. Batton Title: Chief Legal Cofficer

Accepted and Agreed:

MORGAN STANLEY SENIOR FUNDING, INC., as Collateral Agent

By:			
•	Name:		
	Title:		

IN WITNESS WHEREOF, each Grantor has caused this PATENT SECURITY AGREEMENT to be executed and delivered by its duly authorized officer as of the date first above written.

ALKERME	ES, INC.
---------	----------

By: _				
	Name:			
,	Title:			

Accepted and Agreed:

MORGAN STANLEY SENIOR FUNDING, INC., as Collateral Agent

By: _____

Name: Graham Robertson Title: Authorized Signatory

Schedule 1

Part 1

Case Number:4000,3080 Invention Title: COMPOSITIONS AND METHODS FOR IL-10 IMMUNOTHERAPY Division: Alternes, Inc.								
Country United States of America	Sub Case 1	Case Type PRO	Status Pending	Application Number 62/932,808	Filing Date 08-Nov-2019	Patent Number	Issue Date	Expiration Date 08-Nov-2020
Case Number:4185.3087 Invention Title:Ligands Modi Division: Alkennes, Inc.	fied by Circula	r Permutation	as Agonists and Antago	nists				
Country United States of America	Sub Case 5	Case Type CON	Status Pending	Application Number 16/519,231	Filing Date 23-Jul-2019	Patent Number	Issue Date	Expiration Date
Case Number: 4165.3067 Invention Title: Ligands Mo Division: Alkermes, Inc.				•	-			
Country United States of America	Sub Case 4	Case Type CON	Status Granted	Application Number 15/218,193	Filing Date 25-Jul-2016	Petent Number 10,407,481	Issue Date 10-Sep-2019	Expiration Date 06-Jun-2033
Case Number: ALT-028 Invention Title: METH-CDS OF PURIFICATION Division: Alkermes, Inc.								
Country United States of America	Sub Case 1	Case Type PRO	Status Pending	Application Number 62/965,578	Filing Date 24-Jan-2020	Patent Number	Issue Date	Expiration Date 24-Jan-2021
Case Number: ALT-032-1 Invention Title: BENZOTRIAZ Division: Alkernes, Inc.	INVENTION TITLE; BENZOTRIAZOLE COMPOUNDS FOR THE TREATMENT OF PAIN							
Country United States of America	Sub Case	Case Type PRO	Status Pending	Application Number 62/883,816	Filing Date 07-Aug-2019	Patent Number	Issue Date	Expiration Date 07-Aug-2020

Case Number: ALT-033-1 invention Title: LACTAM-CONTAINING COMPOUNDS FOR THE TREATMENT OF PAIN Division: Alkemes, inc. Sub Case Case Type PRO Country United States of America

Application Number 62/883,852 Filing Date Issue Date Patent Number **Expiration Date** 07-Aug-2019 07-Aug-2020

Case Number:ALY-034-1 Invention Title:BENZIMIDAZOLE COMPOUNDS FOR THE TREATMENT OF PAIN Division: Alkermes, Inc.

Sub Case Case Type **Application Number** Country Status Filing Date **Patent Number** Issue Date **Expiration Date** United States of America PRO 62/883,863 07-Aug-2019 07-Aug-2020

Case Number:Ai, T-035-1 Invention Title:INDAZOLE COMPOUNDS FOR THE TREATMENT OF PAIN Division: Alkernes, Inc.

Country United States of America Sub Case Case Type PRO Status Application Number 62/883,823 Filing Date 07-Aug-2019 Patent Number Issue Date Expiration Date Pending 07-Aug-2020

Case Number:ALT-036:1 Invention Title:INDOLE COMPOUNDS FOR THE TREATMENT OF PAIN Division: Alkernes, Inc.

Country United States of America Sub Case Case Type Status **Application Number** Filing Date **Patent Number** Issue Date **Expiration Date** PRO 62/883,870 Pending 07-Aug-2019 07-Aug-2020

Filing Date

Patent Number

Expiration Date 07-Aug-2020

Expiration Date

04-Feb-2021

Issue Date

Case Number:ALT-937-1 Invention Title:PHENYLTRIAZOLE COMPOUNDS FOR THE TREATMENT OF PAIN Division: Alkernes, Inc.

Sub Case Case Type Status

PRO

Country United States of America

Application Number 62/883,837 07-Aug-2019 Case Number:ALT-938-1
Invention Title: CRYSTALLINE FORMS OF 3-((1R,58,9r)-9-ETHOXY-3-AZABICYCLO[3,3,1]NONAN-9-YL)-BENZAMIDE AND SALT FORMS THEREOF

Division: Alkermes, Inc. Country United States of America Sub Case Case Type PRO Application Number 62/989,841 Status Filing Date Patent Number issue Date Pending 04-Feb-2020

5

Part 2

Case Number:4165.3067
Invention Title:Ligands Modified by Circular Permutation as Agonists and Antagonists
Division: Alkermes, Inc.

Country Ireland

Sub Case Case Type Status EPP Status Granted

Application Number 13801437.8

Filing Date 06-Jan-2015

Patent Number EP2859015

Issue Date 21-Mar-2018

Expiration Date 06-Jun-2033

PATENT REEL: 052174 FRAME: 0850

RECORDED: 03/20/2020