

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4908559

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST	
CONVEYING PARTY DATA		
Name		Execution Date
HERCULES CAPITAL, INC.		03/29/2018
RECEIVING PARTY DATA		
Name:	JAGUAR HEALTH, INC.	
Street Address:	201 MISSION STREET	
Internal Address:	SUITE 2375	
City:	SAN FRANCISCO	
State/Country:	CALIFORNIA	
Postal Code:	94105	
PROPERTY NUMBERS Total: 20		
Property Type	Number	
Patent Number:	5211944	
Patent Number:	5494661	
Patent Number:	7341744	
Patent Number:	7323195	
Application Number:	11510152	
Patent Number:	7556831	
Patent Number:	8852649	
Patent Number:	8574634	
Patent Number:	8067041	
Patent Number:	9138450	
Patent Number:	8962680	
Application Number:	13294307	
Patent Number:	8846113	
Patent Number:	9314437	
Application Number:	13500589	
Patent Number:	9198879	
Application Number:	14023598	
Application Number:	14276231	
Application Number:	14307175	

PATENT

Property Type	Number
Application Number:	14476236

CORRESPONDENCE DATA

Fax Number: (312)207-6400
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: 312-207-1000
Email: ipdocket-chi@reedsmith.com
Correspondent Name: BENJAMIN L. BRIMEYER
Address Line 1: 10 SOUTH WACKER DRIVE
Address Line 2: REED SMITH, LLP
Address Line 4: CHICAGO, ILLINOIS 60606

NAME OF SUBMITTER:	BENJAMIN L. BRIMEYER
SIGNATURE:	/BENJAMIN L. BRIMEYER/
DATE SIGNED:	04/10/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 9
source=Hercules to Jaguar Release of Patent Security Agreement#page1.tif
source=Hercules to Jaguar Release of Patent Security Agreement#page2.tif
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RELEASE OF U.S. PATENT SECURITY INTEREST

This RELEASE OF TRADEMARK SECURITY INTEREST (“**Release**”) is made and effective as of March 29, 2018 and granted by Hercules Capital, Inc. (*fka* Hercules Technology Growth Capital, Inc.), a Maryland corporation (the “**Secured Party**”), in favor of Jaguar Health, Inc. formerly known as Jaguar Animal Health, Inc., a Delaware corporation (the “**Debtor**”) and its successors, assigns and legal representatives.

WHEREAS, Secured Party and Debtor are parties to that certain Intellectual Property Security Agreement, dated August 18, 2015 (the “**Security Agreement**”);

WHEREAS, pursuant to the terms of the Security Agreements, Debtor granted to Secured Party a security interest in, among other collateral security, all right, title and interest of Debtor in, to and under all now owned and hereafter acquired Patents (as defined in the Security Agreement) and the Patent Licenses (as defined in the Security Agreement), together with the goodwill of the business symbolized by Patents of Debtor and all proceeds thereof, to secure the payment of all Obligations (as defined in the Security Agreement);

WHEREAS, the Patent Security Agreement was recorded with the United States Patent and Trademark Office at Reel 37809, Frame 0161-0185 on February 12, 2016; and

WHEREAS, the Debtor has requested that the Secured Party enter into this Release in order to effectuate, evidence and record the release and reassignment to the Debtor of any and all right, title and interest the Secured Party may have in the Patents and Patent Licenses pursuant to the Security Agreements.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Secured Party hereby states as follows:

Release of Security Interest. Secured Party, on behalf of itself and its successors, legal representatives and assigns, hereby terminates the IP Security Agreement and terminates, releases and discharges any and all security interests that it has pursuant to the Security Agreements in any and all right, title and interest of the Debtor, and reassigns to the Debtor any and all right, title and interest that it may have, in, to and under the following:

1. all Patents, including, without limitation, the Letters Patents and patent applications listed on Schedule 1 annexed hereto, and all of the goodwill of the business connected with the use of, and symbolized by, each Patent; and

2. all products and proceeds of the foregoing, including, without limitation, any claim by Debtor against third parties for past, present or future (a) infringement of any Patent, including, without limitation, the issued Letters Patent and patent applications listed on Schedule 1 annexed hereto, or (b) injury to the goodwill associated with any Patent or Patent licensed under any Patent License.

Further Assurances. Secured Party agrees to take all further actions, and provide to the Debtor and its successors, assigns and legal representatives all such cooperation and assistance, including, without limitation, the execution and delivery of any and all further documents or other instruments, as the Debtor and its successors, assigns and legal representatives may reasonably request in order to confirm, effectuate or record this Release.

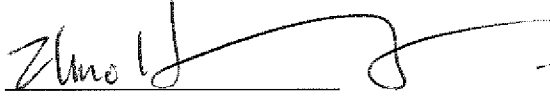
Governing Law. This Release and any claim, controversy, dispute or cause of action (whether in contract or tort or otherwise) based upon, arising out of or relating to this Release and the transactions contemplated hereby shall be governed by, and construed in accordance with, the laws of the United States and the State of Maryland, without giving effect to any choice or conflict of law provision or rule (whether of the State of Maryland or any other jurisdiction).

Electronic Delivery. A signed copy of this Release delivered by facsimile, email, or other means of electronic transmission shall be deemed to have the same legal effect as delivery of an original signed copy of this Release.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, Secured Party has caused this Release to be duly executed and delivered by its officer thereunto duly authorized as of the date first above written.

HERCULES CAPITAL, INC.

By: 

Name: Zhuo Huang

Title: Associate General Counsel

SCHEDULE 1

PATENTS

**APPENDIX 1.28
LICENSED PATENT RIGHTS**

Patent Number	Country	Country Name	Application #	Issued Date	Application Title	Publication #	Publication Date	Volume #	Issue Date	Completed Date	Assignee	Status
119557-00001	US	United States of America	60/797074	01-May-2006	METHOD FOR TREATMENT OF DIARRHEA-PREDOMINANT IRRITABLE BOWEL SYNDROME					N/A	Nepo Pharmaceuticals, Inc.	Expired
119557-00002	US	United States of America	11/510152	24-Aug-2006	METHOD FOR TREATMENT OF DIARRHEA-PREDOMINANT IRRITABLE BOWEL SYNDROME	US-2007-0254050-A1	01-Nov-2007			N/A	Nepo Pharmaceuticals, Inc.	Abandoned on December 14, 2011
119557-00003	US	United States of America	13/304604	25-Nov-2011	METHOD FOR TREATMENT OF DIARRHEA-PREDOMINANT IRRITABLE BOWEL SYNDROME	US-2012-0199720-A1	26-Jul-2012	8,946,113	30-Sep-2014	N/A	Nepo Pharmaceuticals, Inc.	Notice of Allowance - May 23, 2014 Response to OA filed May 8, 2014
119557-00020	WFO	Patent Cooperation Treaty	PCT/US2007/067725	30-Apr-2007	METHOD FOR TREATMENT OF DIARRHEA-PREDOMINANT IRRITABLE BOWEL SYNDROME	WO/2007/130882	15-Nov-2007			N/A	Nepo Pharmaceuticals, Inc. and time Pharmaceuticals, Inc.	National
119557-00101	US	United States of America	60/797076	01-May-2006	METHOD FOR TREATMENT OF CONSTIPATION-PREDOMINANT IRRITABLE BOWEL SYNDROME					N/A	Nepo Pharmaceuticals, Inc.	Expired
119557-00102	US	United States of America	11/741796	30-Apr-2007	METHOD FOR TREATMENT OF CONSTIPATION-PREDOMINANT IRRITABLE BOWEL SYNDROME	US-2008-0001983 A1	07-Feb-2008	7556831	07-Jul-2009	None	Nepo Pharmaceuticals, Inc.	Granted
119557-00103	US	United States of America	12/476590	02-Jun-2008	METHOD FOR TREATMENT OF CONSTIPATION-PREDOMINANT IRRITABLE BOWEL SYNDROME			8067041	29-Nov-2011	None	Nepo Pharmaceuticals, Inc. (Assignment not available. Listed on face of Patent)	Granted
119557-00104	US	United States of America	13/271624	12-Oct-2011	METHOD FOR TREATMENT OF CONSTIPATION-PREDOMINANT IRRITABLE BOWEL SYNDROME	US-2012-0128737-A1	24-May-2012			N/A	Nepo Pharmaceuticals, Inc. (Assignment not available. Continuation of USP 8067041)	Pending Awaiting First Action
119557-00120	WFO	Patent Cooperation Treaty	PCT/US2007/067739	30-Apr-2007	METHOD FOR TREATMENT OF CONSTIPATION-PREDOMINANT IRRITABLE BOWEL SYNDROME	WO/2007/130892	15-Nov-2007				Nepo Pharmaceuticals, Inc. and time Pharmaceuticals, Inc.	National
119557-00201	US	United States of America	60/797075	01-May-2006	COMPOSITIONS AND METHODS FOR TREATING OR PREVENTING INFLAMMATORY BOWEL DISEASE, FAMILIAL ADENOMATOUS POLYPOSIS AND COLON CANCER							Expired
119557-00202	US	United States of America	11/741797	30-Apr-2007	COMPOSITIONS AND METHODS FOR TREATING OR PREVENTING INFLAMMATORY BOWEL DISEASE, FAMILIAL ADENOMATOUS POLYPOSIS AND COLON CANCER	US-2008-0001984 A1	07-Feb-2008	8852649	07-Oct-2014	N/A	Nepo Pharmaceuticals, Inc.	Granted Notice of Allowance - June 5, 2014 Nonfinal Rejection - December 23, 2013

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APPENDIX 1.28
LICENSED PATENT RIGHTS

	US	United States of America	14,478,238	03-Sep-2014	COMPOSITIONS AND METHODS FOR TREATING OR PREVENTING INFLAMMATORY BOWEL DISEASE, FAMILIAL ADENOMATOUS POLYPOSIS AND COLON CANCER							Pending - Divisional of US 11/741,797 Application filed on September 3, 2014
119657-003220	WO	Patent Cooperation Treaty	PCT/US2007/087241	30-Apr-2007	COMPOSITIONS AND METHODS FOR TREATING OR PREVENTING INFLAMMATORY BOWEL DISEASE, FAMILIAL ADENOMATOUS POLYPOSIS AND COLON CANCER	WO2007/130893	15-Nov-2007					National
119657-003301	US	United States of America	80,005,970	13-Oct-1995	USE OF PROANTHOCYANIDIN POLYMERIC COMPOSITIONS FOR TREATMENT OF SECRETORY DIARRHEAS							Expired
119657-003302	US	United States of America	08,559,998	15-Nov-1995	USE OF PROANTHOCYANIDIN POLYMERIC COMPOSITIONS FOR TREATMENT OF SECRETORY DIARRHEAS							Not Publicly Available
119657-003303	US	United States of America	08,730,772	16-Oct-1996	ENTERIC FORMULATIONS OF PROANTHOCYANIDIN POLYMER ANTIDIARRHEAL COMPOSITIONS							Abandoned - Not Publicly Available
119657-003304	US	United States of America	09,086,899	23-Apr-1998	ENTERIC FORMULATIONS OF PROANTHOCYANIDIN POLYMER ANTIDIARRHEAL COMPOSITIONS							Abandoned on January 11, 2001
119657-003305	US	United States of America	09,712,033	14-Nov-2000	METHOD OF TREATING SECRETORY DIARRHEA WITH ENTERIC FORMULATIONS OF PROANTHOCYANIDIN POLYMER			7341744	11-Mar-2008	9,520,003 - Neo Pharmaceuticals, Inc. v. Dids, Docket No. 1:08-cv-1542, District of Columbia	Neo Pharmaceuticals, Inc.	Court Proceedings terminated on 5/19/10 2,229/13 - PTE of 1075 days filed
119657-003306	US	United States of America	10,919,889	17-Aug-2004	ENTERIC FORMULATIONS OF PROANTHOCYANIDIN POLYMER ANTIDIARRHEAL COMPOSITIONS	US 2005-001989 A1	27-Jun-2005	7323195	23-Jun-2008		Neo Pharmaceuticals, Inc.	Granted 2,229/13 - PTE for 1098 days filed
119657-003307	US	United States of America	11,998,170	28-Nov-2007	PROANTHOCYANIDIN POLYMER ANTIDIARRHEAL COMPOSITIONS					N/A		Abandoned on September 9, 2008
119657-003308	US	United States of America	11,998,171	28-Nov-2007	METHOD OF TREATMENT WITH PROANTHOCYANIDIN POLYMER ANTIDIARRHEAL COMPOSITIONS					N/A		Abandoned on September 2, 2008
119657-003309	US	United States of America	12,175,131	17-Jul-2008	COMPOSITIONS AND METHODS OF TREATMENT WITH PROANTHOCYANIDIN POLYMER ANTIDIARRHEAL COMPOSITIONS	US-2009-0148397 A1	11-Jun-2009	8574634 B2	15-Nov-2013		Neo Pharmaceuticals, Inc.	Granted
		United States of America	14,026,999	11-Sep-2013	COMPOSITIONS AND METHODS OF TREATMENT WITH PROANTHOCYANIDIN POLYMER ANTIDIARRHEAL COMPOSITIONS	US2014/00111869	09-Jan-2014				Neo Pharmaceuticals, Inc.	Abandoned 5/13/14 - EOT filed in favor of COV

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APPENDIX 1.28
LICENSED PATENT RIGHTS

		United States of America	14/276231	13-May-2014	COMPOSITIONS AND METHODS OF TREATMENT WITH PROANTHOCYANIDIN POLYMER ANTIDIARRHEAL COMPOSITIONS						Napo Pharmaceuticals, Inc.	Pending CON of US 14/025598 - filed on May 13, 2014 Notice to Correct Application Papers - May 20, 2014
119657-00320	WO	Patent Cooperation Treaty	PCT/US1997/018945	14-Oct-1997	ENTERIC FORMULATIONS OF PROANTHOCYANIDIN POLYMER ANTIDIARRHEAL COMPOSITIONS	WO 1999/16111	23-Apr-1998				Napo Pharmaceuticals, Inc.	National
119657-00401	US	United States of America	07/737077	29-Jul-1991	METHODS FOR USING PROANTHOCYANIDIN POLYMERS HAVING ANTIVIRAL ACTIVITY			5211944	18-May-1993		Napo Pharmaceuticals, Inc.	Expired
119657-00402	US	United States of America	08/194779	09-Feb-1994	METHODS FOR USING PROANTHOCYANIDIN POLYMERS HAVING ANTIVIRAL ACTIVITY	5494661	27-Feb-1996				Napo Pharmaceuticals, Inc.	Expired
119657-00420	WO	Patent Cooperation Treaty	PCT/US1991/007679	10-Oct-1991	PROANTHOCYANIDIN POLYMERS HAVING ANTIVIRAL ACTIVITY AND METHODS OF OBTAINING SAME	WO/1992/006695	30-Apr-1992				Napo Pharmaceuticals, Inc.	National
119657-00801	US	United States of America	61/408622	31-Oct-2010	METHODS AND COMPOSITIONS FOR TREATING HIV-ASSOCIATED DIARRHEA						N/A	Expired
119657-00802	US	United States of America	61/409335	02-Nov-2010	METHODS AND COMPOSITIONS FOR TREATING HIV-ASSOCIATED DIARRHEA						N/A	Expired
119657-00803	US	United States of America	61/416219	22-Nov-2010	METHODS AND COMPOSITIONS FOR TREATING HIV-ASSOCIATED DIARRHEA						N/A	Expired
119657-00804	US	United States of America	61/434379	19-Jan-2011	METHODS AND COMPOSITIONS FOR TREATING HIV-ASSOCIATED DIARRHEA						N/A	Expired
119657-00805	US	United States of America	13/294307	11-Nov-2011	METHODS AND COMPOSITIONS FOR TREATING HIV-ASSOCIATED DIARRHEA	US-2012-0107370 A1	03-May-2012				Pharmaceuticals, Ltd. And Napo Pharmaceuticals, Inc.	Pending 12/17/13 - Final Rejection
119657-00806	US	United States of America	13/285397	31-Oct-2011	METHODS AND COMPOSITIONS FOR TREATING HIV-ASSOCIATED DIARRHEA	US-2012-0194605 A1	19-Jul-2012				Pharmaceuticals, Ltd. And Napo Pharmaceuticals, Inc.	Abandoned in favor of CON 03/13/14 - Final Rejection
119657-00807	US	United States of America	14/307175	17-Jun-2014	METHODS AND COMPOSITIONS FOR TREATING HIV-ASSOCIATED DIARRHEA	US-2014-0294903 A1	02-Oct-2014				Salix Pharmaceuticals, Ltd. And Napo Pharmaceuticals, Inc.	Pending (CON of US 13/294307) Continuation application filed on June 17, 2014
119657-00820	WO	Patent Cooperation Treaty	PCT/US2011/055649	31-Oct-2011	METHODS AND COMPOSITIONS FOR TREATING HIV-ASSOCIATED DIARRHEA	WO2012/0528664	03-May-2012				Salix Pharmaceuticals, Ltd. And Napo Pharmaceuticals, Inc.	Application published on October 2, 2014 National

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APPENDIX 1.28
LICENSED PATENT RIGHTS

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**APPENDIX 1.28
LICENSED PATENT RIGHTS**

21605-105003	US	United States of America	62/004,650	29-May-14	METHODS OF TREATING DIARRHEA IN ADULT NONHUMAN ANIMALS						Jaguar Animal Health (Pat/Frame: 032993/0556, May 30, 2014)	Pending
21605-105003P2	US	United States of America	62/087,207	3-Dec-14	METHODS OF TREATING DIARRHEA IN ADULT NONHUMAN ANIMALS						Awaiting executed Assignment	Pending
21605-105004	US	United States of America	62/004,657	29-May-14	METHODS OF TREATING SALMONELLA-INDUCED DIARRHEA IN NONHUMAN ANIMALS						Jaguar Animal Health (Pat/Frame: 032993/0594, May 30, 2014)	Pending
21605-105004P2	US	United States of America	62/087,210	3-Dec-14	METHODS OF TREATING SALMONELLA-INDUCED DIARRHEA IN NONHUMAN ANIMALS						Jaguar Animal Health (Pat/Frame: 034307/0584, February 6, 2015)	Pending
21605-105006	US	United States of America	62/074,956	4-Nov-14	METHODS OF TREATING ULCERS AND RELATED SYMPTOMS IN NONHUMAN ANIMALS						Jaguar Animal Health (Pat/Frame: 034164/0296, November 13, 2015)	Pending
21605-105007	US	United States of America	62/101,663	9-Jan-15	METHODS OF TREATING DIARRHEA IN COMPANION ANIMALS						Jaguar Animal Health (Pat/Frame: 034610/0290, February 6, 2015)	Pending
21605-105007P2	US	United States of America	62/117,927	18-Feb-15	METHODS OF TREATING DIARRHEA IN COMPANION ANIMALS							Pending
21605-105008P	US	United States of America	62/121,266	26-Feb-15	USE OF PROTON OR CALCIUM-DEPENDENT PROANTHOCYANIDIN POLYMERS OR BOTANICAL EXTRACTS IN COMBINATION WITH RIFAXIMIN FOR THE TREATMENT OF DIARRHEA IN NONHUMAN ANIMALS							Pending
21605-105002PC	WO	Patent Cooperation Treaty	PCT/US2015/32999	29-May-15	METHODS OF TREATING DIARRHEA IN NEONATAL AND YOUNG NONHUMAN ANIMALS							Pending
21605-105003PC	WO	Patent Cooperation Treaty	PCT/US2015/32920	29-May-15	METHODS OF TREATING DIARRHEA IN ADULT NONHUMAN ANIMALS							Pending
21605-105004PC	WO	Patent Cooperation Treaty	PCT/US2015/32927	29-May-15	METHODS OF TREATING SALMONELLA-INDUCED DIARRHEA IN NONHUMAN ANIMALS							Pending
21605-105002P4	US	United States of America	62/172,573	8-Jun-15	METHODS OF TREATING DIARRHEA AND PREVENTING INTESTINAL HEALTH IN NON-HUMAN ANIMALS							Pending

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