

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6968062

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SAMUMED, LLC	03/05/2021
RECEIVING PARTY DATA	
Name:	BIOSPLICE THERAPEUTICS, INC.
Street Address:	9360 TOWNE CENTRE DRIVE
City:	SAN DIEGO
State/Country:	CALIFORNIA
Postal Code:	92121
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17495281
CORRESPONDENCE DATA	
Fax Number:	(877)769-7945
<i>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.</i>	
Phone:	+49-89-7104102-42
Email:	krobinson@fr.com, apsi@fr.com
Correspondent Name:	ANDREA DORIGO
Address Line 1:	FISH & RICHARDSON P.C.
Address Line 2:	P.O.BOX 1022
Address Line 4:	MINNEAPOLIS, MINNESOTA 55440-1022
ATTORNEY DOCKET NUMBER:	29124-0108005
NAME OF SUBMITTER:	KARISSA ROBINSON
SIGNATURE:	/Karissa Robinson/
DATE SIGNED:	10/14/2021
Total Attachments: 58	
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ASSIGNMENT

Assignor: Samumed, LLC
a limited liability company organized and existing under the laws of Delaware, and
having a place of business at:
9360 Towne Centre Drive
San Diego, CA 92121

Assignee: BioSplice Therapeutics, Inc.
a corporation organized and existing under the laws of Delaware, and having a place
of business at:
9360 Towne Centre Drive
San Diego, CA 92121

1. Assignor represents that it is the sole owner of all right, title, and interest in and to the patents and patent applications listed on the attached schedule (Schedule A), and of all foreign and domestic patents, patent applications, including continuation, divisional and continuation-in-part applications, reissues, re-examinations, extensions, certificates of invention, and the like that derive priority from, or claim the benefit of the filing date of, the patents and patent applications listed in Schedule A (the "Patents and Patent Applications") and of all new and useful inventions and improvements that are disclosed in the Patents and Patent Applications (the "Inventions"). The Patents and Patent Applications and the Inventions are collectively referred to as the "Patent Assets."
2. Assignor hereby assigns to Assignee Assignor's entire worldwide right, title, and interest, which Assignee accepts, in and to the Patent Assets, including the right to file and prosecute, and to issue or grant, in Assignee's name wherever so permitted by law or in the name of Assignor wherever necessary, patent applications and patents, respectively, including corresponding and continuing applications, reissues, re-examinations, extensions, certificates of invention, and the like based on any of the Patent Assets, and the right to claim priority to any of the Patents and Patent Applications pursuant to United States law, the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other laws, conventions and treaties of like purposes. Assignor acknowledges receipt of fair and adequate consideration for this Assignment.

3. Assignor and its successors, assigns, agents and legal representatives shall, when requested by Assignee and at no cost to Assignor, (i) execute or cause to be executed all rightful oaths, assignments, and powers of attorney to Assignee or to agents and legal representatives of Assignee, and all other papers necessary and proper to carry out the intent and purpose of this Assignment, (ii) execute all papers necessary in connection with the Patents and Patent Applications, and any continuation, divisional, continuation-in-part, reissue, reexamination or other corresponding application thereof or post-grant proceeding relating thereto and to execute any separate assignment in connection with any such application as Assignee may deem necessary or expedient; and (iii) perform any and all affirmative acts that may be necessary to obtain a grant of a valid patent to Assignee on any of the Inventions.
4. Assignor hereby assigns to Assignee all of Assignor's right, title, and interest, which Assignee accepts, in and to any causes of action, claims, and damages, whether known or unknown, suspected or unsuspected, of any nature, that Assignor had, has or may have against any party for past, present or future infringement of the patents of the Patents and Patent Applications.
5. Assignor represents that Assignor has the full right to convey the interests assigned by this Assignment, and that Assignor has not executed and will not execute any agreement in conflict with this Assignment.
6. This Assignment is binding upon and inures to the benefit of the successors and assigns of the parties.

[ASSIGNMENT CONTINUES ON SIGNATURE PAGE]

The Assignor hereby executes this Assignment.

Assignor: Samumed, LLC

Signature: OK

Date: 03/05/21

Name: Osman Kibar

Title: CEO

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: BioSplice Therapeutics, Inc.

Signature: OK

Date: 03/05/21

Name: Osman Kibar

Title: President

SCHEDULE A

File Ref.	Class Ref.	Title	Filed	App. No.	Pub. No.	Pub. Date	Patent No.	Country	Chain of Title	Inventors	Status
29124-0002001	SMI.010NP	INDAZOLES AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS AND THERAPEUTIC USES THEREOF	9/9/2010	12852,861	US-2011-0034441-A1	2/10/2011		UNITED STATES	Assignor: John Hood, Sunil Kumar KC Assignee: EPITHERIX, LLC Reel/Frame: 024675 / 0113 Recorded: 06/24/2010	John Hood, Sunil Kumar KC	ABANDONED
29124-0002BR1	SMI.010NP-BR	INDAZOLES AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS AND THERAPEUTIC USES THEREOF	9/9/2010	BR112012002942-8				BRAZIL	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 028442 / 0355 Recorded: 06/28/2012	John Hood, Sunil Kumar KC	ABANDONED
29124-0002CA1	SMI.010NP-CA	INDAZOLES AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS AND THERAPEUTIC USES THEREOF	9/9/2010	2770520				CANADA	SAMUMED, LLC	John Hood, Sunil Kumar KC	ABANDONED
29124-0002CN1	SMI.010NP-CN	INDAZOLES AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS AND THERAPEUTIC USES THEREOF	9/9/2010	201060044980-5		7/18/2012		CHINA	SAMUMED, LLC	John Hood, Sunil Kumar KC	ABANDONED
29124-0002EP1	SMI.010NP-EP	INDAZOLES AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS AND THERAPEUTIC USES THEREOF	9/9/2010	10808588.1	2646231	6/20/2012		EUROPEAN PATENT CONVENTION	SAMUMED, LLC	John Hood, Sunil Kumar KC	ABANDONED
29124-0002IN1	SMI.010NP-IN	INDAZOLES AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS AND THERAPEUTIC USES THEREOF	9/9/2010	2053CHENP/2012	2053CHENP/2012 A	4/26/2013		INDIA	SAMUMED, LLC	John Hood, Sunil Kumar KC	ABANDONED
29124-0002IN2	SMI.010NP-IN2	INDAZOLES AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS AND THERAPEUTIC USES THEREOF	9/9/2010	UNKNOWN				INDIA	SAMUMED, LLC	John Hood, Sunil Kumar KC	ABANDONED
29124-0002JP1	SMI.010NP-JP	INDAZOLES AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS AND THERAPEUTIC USES THEREOF	9/9/2010	2012-524772	2013-501792	1/17/2013		JAPAN	SAMUMED, LLC	John Hood, Sunil Kumar KC	ABANDONED
29124-0002P01	SMI.003	WNT INHIBITORS AND METHODS OF USE	8/10/2009	61232,803				UNITED STATES	Assignor: John Hood, Sunil Kumar KC Assignee: WINTHERIX, LLC Reel/Frame: 023757 / 0444 Recorded: 01/11/2010	John Hood, Sunil Kumar KC	EXPIRED
29124-0002WO1	SMI.010NP-PCT	INDAZOLES AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS AND THERAPEUTIC USES THEREOF	9/9/2010	PCT/US2010/044885	WO2011019648	2/17/2011		WIPO	None	John Hood, Sunil Kumar KC	NAT PHASE
29124-0003001	SMI.012	1H-PYRAZOLQ13,4-BIPYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	12868,505	US-2011-0190290-A1	8/4/2011	8,450,340	UNITED STATES	Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: EPITHERIX, LLC Reel/Frame: 028115 / 0438 Recorded: 04/13/2011	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003002	SMI.012-DIV1	1H-PYRAZOLQ13,4-BIPYRIDINES AND THERAPEUTIC USES THEREOF	4/3/2013	13,655,874	US-2013-0225576-A1	8/29/2013	8,815,897	UNITED STATES	Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: EPITHERIX, LLC Reel/Frame: 030724 / 0774 Recorded: 07/02/2013	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003003	SMI.012-DIV2	1H-PYRAZOLQ13,4-BIPYRIDINES AND THERAPEUTIC USES THEREOF	7/10/2013	13,638,692	US-2013-0296307-A1	11/7/2013	8,846,714	UNITED STATES	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 030724 / 0797 Recorded: 07/02/2013 Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: EPITHERIX, LLC Reel/Frame: 030946 / 0566 Recorded: 08/06/2013	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003004	SMI.012-CON1	1H-PYRAZOLQ13,4-BIPYRIDINES AND THERAPEUTIC USES THEREOF	7/15/2014	14,531,427	US-2014-0323479-A1	10/30/2014	8,901,150	UNITED STATES	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 033423 / 0371 Recorded: 07/30/2014 Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 033423 / 0883 Recorded: 07/30/2014	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED

29124-0003005	SMI.012-C0N2	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	8/21/2014	14465,056	2/12/2015	US-2015-0045380-A1	9/30/2015	9,067,939	UNITED STATES	Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: EPITHERIX, LLC Reel/Frame: 033745 / 0070 Recorded: 09/16/2014	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003006	SMI.012-C0N3	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/21/2015	14718,354	4/14/2016	US-2015-0101092-A1	9/20/2016	9,446,035 <td>UNITED STATES</td> <td>Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 033745 / 0146 Recorded: 09/16/2014</td> <td>John Hood, Sunil Kumar KC, David Mark Wallace</td> <td>ISSUED</td>	UNITED STATES	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 033745 / 0146 Recorded: 09/16/2014	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003007	SMI.012-C0N4	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	8/29/2016	15244,687	7/20/2017	US-2017-0202846-A1	1/2/2018	9,855,272 <td>UNITED STATES</td> <td>Assignor: EPITHERIX, LLC Assignee: EPITHERIX, LLC Reel/Frame: 035766 / 0505 Recorded: 06/02/2015</td> <td>John Hood, Sunil Kumar KC, David Mark Wallace</td> <td>ISSUED</td>	UNITED STATES	Assignor: EPITHERIX, LLC Assignee: EPITHERIX, LLC Reel/Frame: 035766 / 0505 Recorded: 06/02/2015	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003008	SMI.012-C0N5	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	11/14/2017	15612,629	9/13/2018	US-2018-0258588-A1	10/23/2018	10,105,370 <td>UNITED STATES</td> <td>Assignor: John Hood, Sunil Kumar KC, Assignee: EPITHERIX, LLC Reel/Frame: 046182 / 0079 Recorded: 06/22/2018</td> <td>John Hood, Sunil Kumar KC, David Mark Wallace</td> <td>ISSUED</td>	UNITED STATES	Assignor: John Hood, Sunil Kumar KC, Assignee: EPITHERIX, LLC Reel/Frame: 046182 / 0079 Recorded: 06/22/2018	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003009	SMI.012-AL2	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7			10/25/2017	3001903	ALBANIA	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 039696 / 0748 Recorded: 09/12/2016	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003010	SMI.012-AT2	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7			10/25/2017	3001903	AUSTRIA	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 039696 / 0748 Recorded: 09/12/2016	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003011	SMI.012-BE	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	10842538.0			8/5/2015	2515855	BELGIUM	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 039696 / 0748 Recorded: 09/12/2016	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003012	SMI.012-BE2	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7			10/25/2017	3001903	BELGIUM	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 039696 / 0748 Recorded: 09/12/2016	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003013	SMI.012-BE3	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	17187452.2			5/15/2019	3305073	BELGIUM	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 046182 / 0238 Recorded: 06/22/2018	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED/DROP
29124-0003014	SMI.012-BG2	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7			10/25/2017	3001903	BULGARIA	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 046182 / 0238 Recorded: 06/22/2018	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003015	SMI.012NIP-BR	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	BR112012018413-0	8/9/2016				BRAZIL	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 046182 / 0238 Recorded: 06/22/2018	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003016	SMI.012NIP-CA	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	2765037			1/16/2018	2765037	CANADA	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 046182 / 0238 Recorded: 06/22/2018	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003017	SMI.012NIP-CA-div	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	2986831			6/2/2020	2986831	CANADA	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 046182 / 0238 Recorded: 06/22/2018	John Hood, Sunil Kumar KC, David Mark Wallace	PEND/DROP
29124-0003018	SMI.012-CH	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	10842538.0			8/5/2015	2515855	SWITZERLAND	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 046182 / 0238 Recorded: 06/22/2018	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003019	SMI.012-CH2	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7			10/25/2017	3001903	SWITZERLAND	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 046182 / 0238 Recorded: 06/22/2018	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003020	SMI.012-CH3	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	17187452.2			5/15/2019	3305073	SWITZERLAND	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 046182 / 0238 Recorded: 06/22/2018	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED/DROP
29124-0003021	SMI.012NIP-CN	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	201080051866.3	12/12/2012	CN 102821807 A	12/17/2014	20180091866.3	CHINA	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 046182 / 0238 Recorded: 06/22/2018	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003022	SMI.012NIP-CN-DIV	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	201410724424.2	4/29/2015	104546846A	4/12/2017	ZL201410724424.2	CHINA	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 046182 / 0238 Recorded: 06/22/2018	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003023	SMI.012-CY2	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7			10/25/2017	3001903	CYPRUS	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 046182 / 0238 Recorded: 06/22/2018	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003024	SMI.012-CZ2	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7			10/25/2017	3001903	CZECH REPUBLIC	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 046182 / 0238 Recorded: 06/22/2018	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003025	SMI.012-DE	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	10842538.0			8/5/2015	2515855	GERMANY	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 046182 / 0238 Recorded: 06/22/2018	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003026	SMI.012-DE2	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7			10/25/2017	602010046313.3	GERMANY	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 046182 / 0238 Recorded: 06/22/2018	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003027	SMI.012-DE3	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	17187452.2			5/15/2019	602010056989.4	GERMANY	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 046182 / 0238 Recorded: 06/22/2018	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED/DROP
29124-0003028	SMI.012-DK2	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7			10/25/2017	3001903	DENMARK	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 046182 / 0238 Recorded: 06/22/2018	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003029	SMI.012-EE2	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7			10/25/2017	3001903	ESTONIA	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 046182 / 0238 Recorded: 06/22/2018	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003030	SMI.012NIP-EP	1H-PYRAZOLO[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	10842538.0	10/31/2012	2515855	8/5/2015	2515855	EUROPEAN PATENT CONVENTION	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 046182 / 0238 Recorded: 06/22/2018	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED

SMI	Chemical Name	12/15/2010	4/6/2016	3001903	10/25/2017	3001903	EUROPEAN PATENT CONVENTION	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003EP2	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7	3001903	10/25/2017	3001903	EUROPEAN PATENT CONVENTION	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0003EP3	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	17187452.2	3305073	5/15/2019	3305073	EUROPEAN PATENT CONVENTION	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED/DROP
SMI.012-ES	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	10842538.0		8/6/2015	2515855	SPAIN	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-ES-2	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7		10/25/2017	3001903	SPAIN	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-FI-2	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7		10/25/2017	3001903	FINLAND	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-FR	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	10842538.0		8/6/2015	2515855	FRANCE	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-FR-2	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7		10/25/2017	3001903	FRANCE	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-FR-3	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	17187452.2		5/15/2019	3305073	FRANCE	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED/DROP
SMI.012-GB	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	10842538.0		8/6/2015	2515855	UNITED KINGDOM	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-GB-2	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7		10/25/2017	3001903	UNITED KINGDOM	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-GB-3	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	17187452.2		5/15/2019	3305073	UNITED KINGDOM	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED/DROP
SMI.012-GR-2	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7		10/25/2017	3001903	GREECE	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-HK-2	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	18111986.5	1232347	7/28/2017	1232347	HONG KONG	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-HK-3	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	18112859.7	1233364	6/14/2019	1233364	HONG KONG	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-HR-2	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7		10/25/2017	3001903	CROATIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-HU-2	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7		10/25/2017	3001903	HUNGARY	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-I	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	10842538.0		8/6/2015	2515855	IRELAND	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-I-2	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7		10/25/2017	3001903	IRELAND	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-I-3	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	17187452.2		5/15/2019	3305073	IRELAND	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-IN	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	6429CHENP2012	318689	8/23/2019	318689	INDIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED/DROP
SMI.012-IN-DIV	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	201848041368A	201848041368A	8/19/2018		INDIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-IS-2	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7		10/25/2017	3001903	ICELAND	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-IT	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	10842538.0		8/6/2015	2515855	ITALY	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-IT-JP	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	2012-546046		10/16/2015	562844	JAPAN	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012NP-JP-DIV1	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	2015-19852	2015-047823	5/28/2017	6148706	JAPAN	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012NP-JP-DIV2	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	2017-098888	2017-137359	8/10/2017		JAPAN	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ABANDONED
SMI.012-LT-2	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7		10/25/2017	3001903	LITHUANIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-LU-2	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7		10/25/2017	3001903	LUXEMBOURG	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-LV-2	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7		10/25/2017	3001903	LATVIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-MC	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	10842538.0		8/6/2015	2515855	MONACO	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-MC-2	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7		10/25/2017	3001903	MONACO	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-MC-3	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	17187452.2		5/15/2019	3305073	MONACO	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED/DROP
SMI.012-MK-2	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7		10/25/2017	3001903	MACEDONIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-MK-3	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	10842538.0		8/6/2015	2515855	NETHERLANDS	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-MT-2	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7		10/25/2017	3001903	MALTA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-NL	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	10842538.0		8/6/2015	2515855	NETHERLANDS	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-NL-2	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7		10/25/2017	3001903	NETHERLANDS	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
SMI.012-NL-3	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	17187452.2		5/15/2019	3305073	NETHERLANDS	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED/DROP
SMI.012-NO-2	1-H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	12/15/2010	15174246.7		10/25/2017	3001903	NORWAY	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED

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29124-0007001	EX.009NP	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	12652,706	2/10/2011	US-2011-0034497-A1	8/28/2012	8,252,812	UNITED STATES	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007002	SMI.0009-DV1	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	7/18/2012	13,552,188	2/14/2013	US-2013-0640976-A1	9/2/2014	8,822,478	UNITED STATES	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: EPITHERIX, LLC Res/Frame: 024875 / 0129 Recorded: 08/24/2010	ISSUED
29124-0007003	SMI.0009-DV2	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	7/10/2013	13,638,691	11/7/2013	US-2013-0296341-A1	12/10/2013	8,604,052	UNITED STATES	Assignor: EPITHERIX, LLC Assignee: SAMUMED, LLC Res/Frame: 028442 / 0355 Recorded: 05/26/2012	ISSUED
29124-0007004	SMI.0009-CON1	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	9/5/2013	14,019,103	1/2/2014	US-2014-0005206-A1	4/22/2014	8,703,794	UNITED STATES	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Res/Frame: 028756 / 0033 Recorded: 06/09/2012	ISSUED
29124-0007005	SMI.0009-CON2	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	7/17/2014	14,534,005	2/12/2015	US-2015-0645379-A1	7/28/2015	9,090,813	UNITED STATES	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Res/Frame: 031403 / 0462 Recorded: 10/15/2013	ISSUED
29124-0007006	SMI.0009-CON3	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	9/17/2015	14,741,645	5/12/2016	US-2016-0128991-A1	7/5/2016	9,381,192	UNITED STATES	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Res/Frame: 033434 / 0712 Recorded: 07/31/2014	ISSUED
29124-0007007	SMI.0009-CON4	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	9/19/2016	15,184,553	3/9/2017	US-2017-0065574-A1	9/19/2017	9,763,927	UNITED STATES	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Res/Frame: 036045/0644 Recorded: 07/09/2015	ISSUED
29124-0007008	SMI.0009-CONS	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/18/2017	15,881,055	8/7/2018	US-2018-0153873-A1	7/10/2018	10,016,406	UNITED STATES	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Res/Frame: 045038 / 0585 Recorded: 02/29/2018	ISSUED
29124-0007009	SMI.0009-NP-AL	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	9/9/2010	10808589.5			10/7/2015	2484232	ALBANIA	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007010	SMI.0009-NP-AT	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	9/9/2010	10808589.5			10/7/2015	2484232	AUSTRIA	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007011	SMI.0009-NP-BE	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	9/9/2010	10808589.5			10/7/2015	2484232	BELGIUM	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007012	SMI.0009-NP-BE2	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	9/9/2010	15177652.9			10/7/2020	2987487	BELGIUM	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007013	SMI.0009-NP-BG	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	9/9/2010	10808589.5			10/7/2015	2484232	BULGARIA	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007014	SMI.0009-NP-BR	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	9/9/2010	BR112012002854-5	9/22/2015		2/18/2020	BR112012002854-5	BRAZIL	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007015	EX.009NP-CA	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	9/9/2010	2770116			3/13/2018	2770116	CANADA	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007016	SMI.0009-NP-CH	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	9/9/2010	10808589.5			10/7/2015	2484232	SWITZERLAND	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007017	SMI.0009-NP-CH2	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	9/9/2010	15177652.9			10/7/2020	2987487	SWITZERLAND	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007018	EX.009NP-CN	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	9/9/2010	201080044979.2	7/18/2012	CN102595900A	7/15/2015	ZL201080044979.2	CHINA	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007019	EX.009NP-CN-DIV	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	9/9/2010	201510344619.9	11/11/2015	CN105037355A	9/8/2017	ZL201510344619.9	CHINA	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007020	SMI.0009-NP-CY	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	9/9/2010	10808589.5			10/7/2015	2484232	CYPRUS	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007021	SMI.0009-NP-CZ	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	9/9/2010	10808589.5			10/7/2015	2484232	CZECH REPUBLIC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007022	SMI.0009-NP-DE	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	9/9/2010	10808589.5		2484232	10/7/2015	802010028124.8	GERMANY	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007023	SMI.0009-NP-DE2	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	9/9/2010	15177652.9			10/7/2020	6020101065849.7	GERMANY	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007024	SMI.0009-NP-DK	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	9/9/2010	10808589.5			10/7/2015	2484232	DENMARK	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007025	SMI.0009-NP-DK2	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	9/9/2010	15177652.9			10/7/2020	2987487	DENMARK	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007026	SMI.0009-NP-EE	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	9/9/2010	10808589.5			10/7/2015	2484232	ESTONIA	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007027	SMI.0009-NP-EP	INDAZOLE INHIBITORS OF THE WMT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	9/9/2010	10808589.5	8/20/2012	2484232	10/7/2015	2484232	EUROPEAN PATENT CONVENTION	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED

29124-0007EP2	SMI.009NP-EP-DIV	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	15177652.9	2/24/2016	2987487	10/7/2020	2987487	EUROPEAN PATENT CONVENTION	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007ES1	SMI.009NP-ES	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	SPAIN	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007ES2	SMI.009NP-ES2	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	15177652.9			10/7/2020	2987487	SPAIN	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007F1	SMI.009NP-F1	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	FINLAND	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007FR1	SMI.009NP-FR	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	FRANCE	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007FR2	SMI.009NP-FR2	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	15177652.9			10/7/2020	2987487	FRANCE	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007GB1	SMI.009NP-GB	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	UNITED KINGDOM	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007GB2	SMI.009NP-GB2	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	15177652.9			10/7/2020	2987487	UNITED KINGDOM	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007GR1	SMI.009NP-GR	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	GREECE	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007HK2	SMI.009NP-HK	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	18110093.7	8/18/2017	1224176			HONG KONG	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	PUBLISHED
29124-0007HR1	SMI.009NP-HR	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	CROATIA	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007HU1	SMI.009NP-HU	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	HUNGARY	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007IE1	SMI.009NP-IE	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	IRELAND	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007IE2	SMI.009NP-IE2	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	15177652.9			10/7/2020	2987487	IRELAND	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007IN1	EX.009NP-IN	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	2086CHEMP2012	4/26/2013	2086CHEMP2012 A	10/23/2018	302350	INDIA	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007IS1	SMI.009NP-IS	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	ICELAND	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007IT1	SMI.009NP-IT	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	ITALY	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007IT2	SMI.009NP-IT2	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	15177652.9			10/7/2020	2987487	ITALY	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007JP1	EX.009NP-JP	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	2012-524773	1/17/2013	2015-501793	8/19/2015	5763072	JAPAN	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007JP2	EX.009NP-JP2	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	2015-117679	10/15/2015	2015-180881	11/18/2016	6042944	JAPAN	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007JP3	SMI.009NP-JP-DIV2	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	2016-219613	2/22/2017	2017-025113			JAPAN	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ABANDONED
29124-0007LI1	SMI.009NP-LI	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	LIECHTENSTEIN	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007LT1	SMI.009NP-LT	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	LITHUANIA	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007LU1	SMI.009NP-LU	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	LUXEMBOURG	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007LV1	SMI.009NP-LV	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	LATVIA	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007MC1	SMI.009NP-MC	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	MONACO	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007MC2	SMI.009NP-MC2	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	15177652.9			10/7/2020	2987487	MONACO	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007MK1	SMI.009NP-MK	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	MACEDONIA	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007MT1	SMI.009NP-MT	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	MALTA	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007MT2	SMI.009NP-MT2	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	15177652.9			10/7/2020	2987487	MALTA	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007NL1	SMI.009NP-NL	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	NETHERLANDS	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007NL2	SMI.009NP-NL2	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	15177652.9			10/7/2020	2987487	NETHERLANDS	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007NO1	SMI.009NP-NO	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	NORWAY	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007PO1	EX.008	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	2/17/2010	613505459					UNITED STATES	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: WINTHERYX, LLC Reel/Frame: 024258 / 0773 Recorded: 04/20/2010	John Hood, David Mark Wallace, Sunil Kumar KC	EXPIRED
29124-0007PL1	SMI.009NP-PL	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	POLAND	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007PT1	SMI.009NP-PT	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	PORTUGAL	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007RO1	SMI.009NP-RO	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	ROMANIA	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007SE1	SMI.009NP-SE	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	SWEDEN	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED

29124-0007SE2	SMI.009NP-SE2	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	15177652.9			10/7/2020	2987487	SWEDEN	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007S1	SMI.009NP-S1	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	SLOVENIA	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007SK1	SMI.009NP-SK	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	SLOVAKIA	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007SM1	SMI.009NP-SM	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	SAN MARINO	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007TR1	SMI.009NP-TR	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	10608589.5			10/7/2015	2484232	TURKEY	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007TR2	SMI.009NP-TR2	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	15177652.9			10/7/2020	2987487	TURKEY	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0007WO1	EX.009NP-PCT	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	8/9/2010	PCTUS2010/044872		WO2011/019651	10/7/2020	2987487	WIPO	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	NAT PHASE
29124-0010001	SMI.001NP-US	METHODS FOR IDENTIFYING COMPOUNDS THAT MODULATE WNT SIGNALING IN CANCER CELLS	5/7/2009	12437.318		US-2010-0688708-A1	3/18/2010		UNITED STATES	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055975 / 0345 Recorded: 02/23/2021 Assignor: John Hood, Charlene F. Barroga, Dennis Carson, Desheng Lu Assignee: WINTHERIX, LLC Reel/Frame: 022935 / 0616 Recorded: 07/09/2009	John Hood, Charlene F. Barroga, Dennis Carson, Desheng Lu	ABANDONED
29124-0010CN1	SMI.001NP-CN	METHODS FOR IDENTIFYING COMPOUNDS THAT MODULATE WNT SIGNALING IN CANCER CELLS	5/6/2009	200960116859.6		CN102027133A	4/20/2011		CHINA	Assignor: WINTHERIX, LLC Assignee: EPITHERIX, LLC Reel/Frame: 024469 / 0001 Recorded: 06/02/2010	Desheng Lu, Charlene F. Barroga, Dennis Carson, John Hood	ABANDONED
29124-0010EP1	SMI.001NP-EU	METHODS FOR IDENTIFYING COMPOUNDS THAT MODULATE WNT SIGNALING IN CANCER CELLS	5/6/2009	09743816.6		2283160	2/19/2011		EUROPEAN PATENT CONVENTION	SAMUMED, LLC	Desheng Lu, Charlene F. Barroga, Dennis Carson, John Hood	ABANDONED
29124-0010P01	SMI.001	METHODS FOR IDENTIFYING COMPOUNDS THAT MODULATE WNT SIGNALING IN CANCER CELLS	5/7/2008	61051.322					UNITED STATES	NA	Desheng Lu, Charlene F. Barroga, Dennis Carson, John Hood	EXPIRED
29124-0010WO1	SMI.001NP-PCT	METHODS FOR IDENTIFYING COMPOUNDS THAT MODULATE WNT SIGNALING IN CANCER CELLS	5/6/2009	PCTUS2009/043051		WO2009/137630	11/12/2009		WIPO	Assignor: Desheng Lu, Charlene F. Barroga, Dennis Carson, John Hood Assignee: WINTHERIX, LLC Reel/Frame: 022935 / 0915 Recorded: 07/09/2009	Desheng Lu, Charlene F. Barroga, Dennis Carson, John Hood	NAT PHASE
29124-0011001	SMI.002NP-US	METHODS FOR IDENTIFYING COMPOUNDS THAT AFFECT EXPRESSION OF CANCER-RELATED PROTEIN ISOMERS	5/7/2009	12437.327		US-2008-0288246-A1	11/19/2009		UNITED STATES	Assignor: John Hood, Charlene F. Barroga, Dennis Carson, Desheng Lu Assignee: WINTHERIX, LLC Reel/Frame: 022935 / 0908 Recorded: 07/09/2009	John Hood, Charlene F. Barroga, Dennis Carson, Desheng Lu	ABANDONED
29124-0011P01	SMI.002	METHODS FOR IDENTIFYING COMPOUNDS THAT AFFECT EXPRESSION OF CANCER-RELATED PROTEIN ISOMERS	5/7/2008	61051.324					UNITED STATES	Assignor: WINTHERIX, LLC Assignee: EPITHERIX, LLC Reel/Frame: 024469 / 0001 Recorded: 06/02/2010 Assignor: Desheng Lu, Charlene F. Barroga, Dennis Carson Assignee: SAMUMED, LLC Reel/Frame: 031403 / 0421	Desheng Lu, Charlene F. Barroga, Dennis Carson	EXPIRED
29124-0011WO1	SMI.002NP-PCT	METHODS FOR IDENTIFYING COMPOUNDS THAT AFFECT EXPRESSION OF CANCER-RELATED PROTEIN ISOMERS	5/6/2009	PCTUS2009/043052		WO2009/137631	11/12/2009		WIPO	Assignor: John Hood, Charlene F. Barroga, Dennis Carson, Desheng Lu Assignee: WINTHERIX, LLC Reel/Frame: 022935 / 0940 Recorded: 07/09/2009	John Hood, Charlene F. Barroga, Dennis Carson, Desheng Lu	ABANDONED
29124-0012001	SMI.019	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT/BETA-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	13,614,296		US-2013-0079329-A1	3/28/2013	9,221,793	UNITED STATES	Assignor: John Hood, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 029435 / 0421	John Hood, Sunil Kumar KC	ISSUED
29124-0012002	SMI.019-CON1	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT/BETA-CATENIN SIGNALING PATHWAY INHIBITORS	9/5/2013	14,019,229		US-2014-0043815-A1	2/13/2014	8,997,887	UNITED STATES	Assignor: John Hood, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 029435 / 0421	John Hood, Sunil Kumar KC	ISSUED
29124-0012003	SMI.019-CON2	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT/BETA-CATENIN SIGNALING PATHWAY INHIBITORS	11/13/2015	14,840,958		US-2016-0044488-A1	10/31/2017	9,802,916	UNITED STATES	Assignor: John Hood, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 036915 / 0944	John Hood, Sunil Kumar KC	ISSUED
29124-0012004	SMI.019-CON3	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT/BETA-CATENIN SIGNALING PATHWAY INHIBITORS	9/19/2017	15,709,057		US-2018-0237418-A1	11/5/2019	10,484,924	UNITED STATES	Assignor: SAMUMED, LLC Assignee: SAMUMED, LLC Reel/Frame: 045732 / 0719	John Hood, Sunil Kumar KC	ISSUED
29124-0012006	SMI.019CON4	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT/BETA-CATENIN SIGNALING PATHWAY INHIBITORS	9/19/2019	16,676,308		US-2020-0239438-A1	7/30/2020		UNITED STATES	Assignor: SAMUMED, LLC Assignee: SAMUMED, LLC Reel/Frame: 051434 / 0783 Recorded: 01/07/2020	John Hood, Sunil Kumar KC	PUBLISHED
29124-0012AE1	SMI.019-AE	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT/BETA-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	253,2014					UNITED ARAB EMIRATES	SAMUMED, LLC	John Hood, Sunil Kumar KC	PENDING
29124-0012AL1	SMI.019-AL	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT/BETA-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	12830838.2			11/28/2018	2755483	ALBANIA	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED

29124-0012AT1	SMI.019-AT	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	12830938.2	11/10/2016	2017200866	2017200866	11/28/2018	2755483	AUSTRIA	AUSTRIA	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012AU1	SMI.019-AU	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	2012308570	11/10/2016	2017200866	2017200866	2/23/2017	2012308570	AUSTRALIA	AUSTRALIA	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012AU2	SMI.019-AU-DIV	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	2017200866	3/14/2019	2017200866	2017200866	6/27/2019	2017200866	AUSTRALIA	AUSTRALIA	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012BA1	SMI.019-BA	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	12830938.2				11/28/2018	2755483	BOSNIA AND HERZEGOVINA	BOSNIA AND HERZEGOVINA	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012BE1	SMI.019-BE	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	12830938.2				11/28/2018	2755483	BELGIUM	BELGIUM	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012BG1	SMI.019-BG	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	12830938.2				11/28/2018	2755483	BULGARIA	BULGARIA	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012BR1	SMI.019-BR	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	BR1120140061270	4/4/2017					BRAZIL	BRAZIL	SAMUMED, LLC	John Hood, Sunil Kumar KC	PUBLISHED
29124-0012BR2	SMI.019 BR2	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	BR1220200244890						BRAZIL	BRAZIL	SAMUMED, LLC	John Hood, Sunil Kumar KC	PENDING
29124-0012CA1	SMI.019-CA	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	2848659				3/9/2021	2848659	CANADA	CANADA	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012CH1	SMI.019-CH	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	12830938.2				11/28/2018	2755483	SWITZERLAND	SWITZERLAND	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012CL1	SMI.019-CL	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	0642-2014	10/24/2014			11/5/2020	61205	CHILE	CHILE	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012CN1	SMI.019-CN	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	201280055729.8	7/19/2014	CN 103929963A				CHINA	CHINA	SAMUMED, LLC	John Hood, Sunil Kumar KC	PUBLISHED
29124-0012CN2	SMI.019-CN - DIV	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	201811620778.7	5/3/2019	CN 109705097 A				CHINA	CHINA	SAMUMED, LLC	John Hood, Sunil Kumar KC	PUBLISHED
29124-0012CO1	SMI.019-CO	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	14-060375				12/18/2015	30599	COLOMBIA	COLOMBIA	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012CY1	SMI.019-CY	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	12830938.2				11/28/2018	2755483	CYPRUS	CYPRUS	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012CZ1	SMI.019-CZ	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	12830938.2				11/28/2018	2755483	CZECH REPUBLIC	CZECH REPUBLIC	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012DE1	SMI.019-DE	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	12830938.2				11/28/2018	602012054189.5	GERMANY	GERMANY	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012DK1	SMI.019-DK	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	12830938.2				11/28/2018	2755483	DENMARK	DENMARK	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012EE1	SMI.019-EE	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	12830938.2				11/28/2018	2755483	ESTONIA	ESTONIA	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012EG1	SMI.019-EG	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	PCT 395/2014						EGYPT	EGYPT	SAMUMED, LLC	John Hood, Sunil Kumar KC	PENDING
29124-0012EP1	SMI.019-EP	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	12830938.2	7/23/2014	2755483	2755483	11/28/2018	2755483	EUROPEAN PATENT CONVENTION	EUROPEAN PATENT CONVENTION	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012EP2	SMI.019-EP-DIV	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	18191345.5	4/24/2019	3473069				EUROPEAN PATENT CONVENTION	EUROPEAN PATENT CONVENTION	SAMUMED, LLC	John Hood, Sunil Kumar KC	ALLOWED
29124-0012ES1	SMI.019-ES	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	12830938.2				11/28/2018	2755483	SPAIN	SPAIN	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012FI1	SMI.019-FI	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	12830938.2				11/28/2018	2755483	FINLAND	FINLAND	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012FR1	SMI.019-FR	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	12830938.2				11/28/2018	2755483	FRANCE	FRANCE	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012GB1	SMI.019-GB	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	12830938.2				11/28/2018	2755483	UNITED KINGDOM	UNITED KINGDOM	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012GR1	SMI.019-GR	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	12830938.2				11/28/2018	2755483	GREECE	GREECE	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012HK1	SMI.019-HK	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	14107549.5	10/10/2014	1193946A	1193946A	11/29/2019	1193946B	HONG KONG	HONG KONG	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012HK2	SMI.019-HK2	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	19129522.9	5/15/2020	4006001				HONG KONG	HONG KONG	SAMUMED, LLC	John Hood, Sunil Kumar KC	PUBLISHED
29124-0012HR1	SMI.019-HR	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	12830938.2				11/28/2018	2755483	CROATIA	CROATIA	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012HU1	SMI.019-HU	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	12830938.2				11/28/2018	2755483	HUNGARY	HUNGARY	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012ID1	SMI.019-ID	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	P00201402058	5/29/2015	2015.02022	2015.02022	11/28/2018	2755483	INDONESIA	INDONESIA	SAMUMED, LLC	John Hood, Sunil Kumar KC	PUBLISHED
29124-0012IE1	SMI.019-IE	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	12830938.2				12/30/2016	231536	IRELAND	IRELAND	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012IL1	SMI.019-IL	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	231536	9/29/2016					ISRAEL	ISRAEL	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012IN1	SMI.019-IN	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	2646CHENP/2014	8/7/2015	2646CHENP/2014 A	2646CHENP/2014 A	10/30/2019	323938	INDIA	INDIA	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012IN2	SMI.019-IN2	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	UNKNOWN						INDIA	INDIA	SAMUMED, LLC	John Hood, Sunil Kumar KC	PENDING
29124-0012IS1	SMI.019-IS	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	12830938.2				11/28/2018	2755483	ICELAND	ICELAND	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012IT1	SMI.019-IT	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	12830938.2				11/28/2018	50201900001320	ITALY	ITALY	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012JP1	SMI.019-JP	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	2014-530787	10/6/2014	2014-526510	2014-526510	12/28/2018	6457459	JAPAN	JAPAN	SAMUMED, LLC	John Hood, Sunil Kumar KC	ABANDONED
29124-0012JP2	SMI.019-JP-DWI	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	2016-202360	2/16/2017	2017-036317	2017-036317	12/28/2018	10-2014-009764	JAPAN	JAPAN	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED
29124-0012KR1	SMI.019-KR	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT1B-CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	10-2014-009764				8/7/2019	10-2014-009764	SOUTH KOREA	SOUTH KOREA	SAMUMED, LLC	John Hood, Sunil Kumar KC	ISSUED

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29124-0012WO1	SMI.019PCT	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT/CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	PCTUS2012/055172	3/21/2013	WO 2013/040215	WMFO	Assignor: John Hood, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0488 Recorded: 02/23/2021	John Hood, Sunil Kumar KC	NAT PHASE
29124-0012ZA1	SMI.019-ZA	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT/CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	201402623			SOUTH AFRICA	Recorded: 02/23/2021	John Hood, Sunil Kumar KC	PENDING
29124-0012ZA2	SMI.019-ZA-DIV	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT/CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	201502062	7/65/2018	201502062	SOUTH AFRICA	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 030607 / 0872 Recorded: 06/13/2013	John Hood, Sunil Kumar KC	ISSUED
29124-0012ZA3	SMI.019-ZA-DIV2	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT/CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	201600169	7/65/2018	201600169	SOUTH AFRICA	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, Sunil Kumar KC	ISSUED
29124-0012ZA4	SMI.019-ZA-DIV3	INDAZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT/CATENIN SIGNALING PATHWAY INHIBITORS	9/13/2012	201704611	3/18/2014	8,673,938	SOUTH AFRICA	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 031403 / 0124 Recorded: 10/15/2013	John Hood, Sunil Kumar KC	PENDING
29124-0013001	SMI.022	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	138600963	10/10/2013	US-2013-0267495-A1	UNITED STATES	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 030607 / 0872 Recorded: 06/13/2013	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013002	SMI.022-CON1	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	9/6/2013	14019,940	1/2/2014	US-2014-0005170-A1	UNITED STATES	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 031403 / 0124 Recorded: 10/15/2013	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013003	SMI.022-CON2	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	2/12/2014	14178,749	9/26/2014	US-2014-0179996-A1	UNITED STATES	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013004	SMI.022-CON3	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	2/12/2015	141621,195	6/4/2015	US-2015-0152105-A1	UNITED STATES	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 033074 / 0185 Recorded: 03/03/2015	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013005	SMI.022-CON4	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	11/12/2015	141639,434	10/13/2016	US-2016-0297812-A1	UNITED STATES	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 037664 / 0781 Recorded: 02/08/2018	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013006	SMI.022-CON5	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	5/1/2018	15980,555	3/7/2019	US-2019-0071440-A1	UNITED STATES	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 049277 / 0843 Recorded: 05/24/2019	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED

29124-0013007	SMI.022-CN6	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	7/22/2019	19/918,337	6/18/2020	US-2020-0190082-A1	UNITED STATES	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0536 Recorded: 08/09/2019	John Hood, David Mark Wallace, Sunil Kumar KC	ALLOWED
29124-0013008	SMI.022-CN7	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	2/5/2021	17166,747			UNITED STATES	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	PENDING
29124-0013009	SMI.022-AE	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	1053/2014			UNITED ARAB EMIRATES	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ALLOWED
29124-0013010	SMI.022-AL	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	13772420.9			ALBANIA	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013011	SMI.022-AT	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	13772420.9			AUSTRIA	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013012	SMI.022-AU	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	2013243899	2/25/2016		AUSTRALIA	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013013	SMI.022-AU	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	2016203274	9/14/2017		AUSTRALIA	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013014	SMI.022-BA	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	13772420.9			BOSNIA AND HERZEGOVINA	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013015	SMI.022-BE	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	13772420.9			BELGIUM	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013016	SMI.022-BG	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	13772420.9			BULGARIA	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013017	SMI.022-BR	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	BR1120140236599	4/28/2020		BRAZIL	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	PUBLISHED
29124-0013018	SMI.022-CA	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	2853703			CANADA	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013019	SMI.022-CH	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	13772420.9			SWITZERLAND	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013020	SMI.022-CL	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	02511-2014	1/9/2015		CHILE	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013021	SMI.022-CN	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	201360016954.9	12/10/2014	CN104202864 A	CHINA	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013022	SMI.022-CH-DIV	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	201710116940.0	6/27/2017	CN108692916 A	CHINA	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ABANDONED
29124-0013023	SMI.022-CO	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	14-219345	3/31/2015		COLOMBIA	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013024	SMI.022-CY	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	13772420.9			CYPRUS	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013025	SMI.022-CZ	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	13772420.9			CZECH REPUBLIC	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013026	SMI.022-DE	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	13772420.9		2760285	GERMANY	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013027	SMI.022-DK	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	13772420.9			DENMARK	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013028	SMI.022-EE	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	13772420.9			ESTONIA	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013029	SMI.022-EG	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	13772420.9			EGYPT	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	PENDING
29124-0013030	SMI.022-EP	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	PCT 1578/2014	8/8/2014	2760285	EUROPEAN PATENT CONVENTION	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013031	SMI.022-EP-DIV	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	17189783.2	2/21/2018	3264744	EUROPEAN PATENT CONVENTION	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ALLOWED
29124-0013032	SMI.022-ES	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	13772420.9			SPAIN	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013033	SMI.022-FI	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	13772420.9			FINLAND	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013034	SMI.022-FR	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	13772420.9			FRANCE	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013035	SMI.022-GB	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/19/2013	13772420.9			UNITED KINGDOM	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0784 Recorded: 02/23/2021	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED

29124-0013GR1	SMI.022-GR	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	13772420.9			10/24/2014	1194615A	6/21/2017	2780285	GREECE	ISSUED	John Hood, David Mark Wallace, Sunil Kumar KC
29124-0013HK1	SMI.022-HK	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	14108666.6			10/24/2014	1194615A	5/18/2018	1194616	HONG KONG	ISSUED	Wallace, Sunil Kumar KC
29124-0013HR1	SMI.022-HR	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	13772420.9					6/21/2017	2780285	CROATIA	ISSUED	Wallace, Sunil Kumar KC
29124-0013HU1	SMI.022-HU	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	13772420.9					6/21/2017	2780285	HUNGARY	ISSUED	Wallace, Sunil Kumar KC
29124-0013ID1	SMI.022-ID	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	P00201405884			3/25/2016	201602031	2/25/2019	DP0000056889	INDONESIA	ISSUED	Wallace, Sunil Kumar KC
29124-0013ID2	SMI.022-ID-DIV	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	P00201901121							INDONESIA	ABANDONED	Wallace, Sunil Kumar KC
29124-0013IE1	SMI.022-IE	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	13772420.9					6/21/2017	2780285	IRELAND	ISSUED	Wallace, Sunil Kumar KC
29124-0013IL1	SMI.022-IL	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	254743			10/31/2017		1/2/2018	234743	ISRAEL	ISSUED	Wallace, Sunil Kumar KC
29124-0013IL2	SMI.022-IL-DIV	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	254935							ISRAEL	ABANDONED	Wallace, Sunil Kumar KC
29124-0013IN1	SMI.022-IN	2-(INDAZOL-3-YL)MIDAZOL-5-OPYRIDINE DERIVATIVES AS INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	79141CHENP.2014			7/11/2016	79141CHENP.2014 A	11/24/2020	352092	INDIA	ISSUED	Wallace, Sunil Kumar KC
29124-0013IN2	SMI.022-IN-DIV	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	201946011142			5/10/2019	201946011142 A			INDIA	ABANDONED	Wallace, Sunil Kumar KC
29124-0013IS1	SMI.022-IS	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	13772420.9					6/21/2017	2780285	ICELAND	ISSUED	Wallace, Sunil Kumar KC
29124-0013IT1	SMI.022-IT	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	13772420.9				2780285	6/21/2017	50201700010437	ITALY	ISSUED	Wallace, Sunil Kumar KC
29124-0013JP1	SMI.022-JP	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	2015-504582			4/27/2015	2015-512443	6/30/2017	6167169	JAPAN	ISSUED	Wallace, Sunil Kumar KC
29124-0013JP2	SMI.022-JP-DIV	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	2017-124183			12/7/2017	2017-214393	9/14/2018	6401345	JAPAN	ISSUED	Wallace, Sunil Kumar KC
29124-0013JP3	SMI.022-JP-DIV2	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	2018-166480			11/29/2018	2018-166479			JAPAN	ABANDONED	Wallace, Sunil Kumar KC
29124-0013KR1	SMI.022-KR	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	10-2014-1028706					11/18/2019	10-2046107	SOUTH KOREA	ISSUED	Wallace, Sunil Kumar KC
29124-0013KZ1	SMI.022-KZ	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	2014/2521.1					3/15/2017	31904	KAZAKHISTAN	ISSUED	Wallace, Sunil Kumar KC
29124-0013LT1	SMI.022-LT	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	13772420.9					6/21/2017	2780285	LITHUANIA	ISSUED	Wallace, Sunil Kumar KC
29124-0013LU1	SMI.022-LU	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	13772420.9					6/21/2017	2780285	LUXEMBOURG	ISSUED	Wallace, Sunil Kumar KC
29124-0013LV1	SMI.022-LV	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	13772420.9					6/21/2017	2780285	LATVIA	ISSUED	Wallace, Sunil Kumar KC
29124-0013MA1	SMI.022-MA	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	37450					3/29/2018	37450	MOROCCO	ISSUED	Wallace, Sunil Kumar KC
29124-0013MC1	SMI.022-MC	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	13772420.9					6/21/2017	2780285	MONACO	ISSUED	Wallace, Sunil Kumar KC
29124-0013ME1	SMI.022-ME	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	13772420.9					6/21/2017	2780285	MONTENEGRO	ISSUED	Wallace, Sunil Kumar KC
29124-0013MK1	SMI.022-MK	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	13772420.9					6/21/2017	2780285	MACEDONIA	ISSUED	Wallace, Sunil Kumar KC
29124-0013MO1	SMI.022-MO	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	J002853					1/4/2016	J002853	MACAO	ISSUED	Wallace, Sunil Kumar KC
29124-0013MT1	SMI.022-MT	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	13772420.9					6/21/2017	2780285	MALTA	ISSUED	Wallace, Sunil Kumar KC
29124-0013MX1	SMI.022-MX	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	MX/a/2014/011996			12/18/2014		4/18/2018	355435	MEXICO	ISSUED	Wallace, Sunil Kumar KC
29124-0013MX2	SMI.022-MX-DIV	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	MX/a/2016/004730							MEXICO	ABANDONED	Wallace, Sunil Kumar KC
29124-0013MY1	SMI.022-MY	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	PI 2014002843					5/20/2020	IMY-114896-A	MALAYSIA	ISSUED	Wallace, Sunil Kumar KC
29124-0013MY2	SMI.022-MY-DIV	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	PI 2016002859							MALAYSIA	ISSUED	Wallace, Sunil Kumar KC
29124-0013NL1	SMI.022-NL	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	13772420.9					6/21/2017	2780285	NETHERLANDS	PENDING	Wallace, Sunil Kumar KC
29124-0013NO1	SMI.022-NO	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	13772420.9					6/21/2017	2780285	NORWAY	ISSUED	Wallace, Sunil Kumar KC
29124-0013NZ1	SMI.022-NZ	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	628923			12/23/2016		3/24/2017	628923	NEW ZEALAND	ISSUED	Wallace, Sunil Kumar KC
29124-0013NZ2	SMI.022-NZ-DIV	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	727358					1/29/2019	727358	NEW ZEALAND	ISSUED	Wallace, Sunil Kumar KC
29124-0013NZ3	SMI.022-NZ-DIV2	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	740938					3/2/2020	740938	NEW ZEALAND	ISSUED	Wallace, Sunil Kumar KC
29124-0013PO1	SMI.016-PR	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	4/4/2012	61620.107							UNITED STATES	EXPIRED	Wallace, Sunil Kumar KC
29124-0013PE1	SMI.022-PE	(N-5-(3-(7-FLUOROPHENYL)-3HIMIDAZOL-4-5-OPYRIDIN-2-PY)-1H-INDAZOL-5-YL)PYRIDIN-3-YL-3-METHYLBUTANAMIDE AS INHIBITOR OF WNT SIGNALPATHWAY	3/13/2013	001518-2014/DN			11/2/2015	001518-2014	1/28/2019	9306	PERU	ISSUED	John Hood, David Mark Wallace, Sunil Kumar KC

29124-0013PH1	SMI.022-PH1	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	1-2014-502183	2/19/2018	1-2017-500997	8/20/2018	1-2014-502183	PHILIPPINES	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013PH2	SMI.022-PH-DIV	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	1-2017-500997	2/19/2018	1-2017-500997			PHILIPPINES	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ABANDONED
29124-0013PH3	SMI.022-PH-DIV2	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	1-2017-501568	7/2/2018	70			PHILIPPINES	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ABANDONED
29124-0013PL1	SMI.022-PL	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	13772420.9			6/21/2017	2790285	POLAND	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013PT1	SMI.022-PT	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	13772420.9			6/21/2017	2790285	PORTUGAL	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013RO1	SMI.022-RO	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	13772420.9			6/21/2017	2790285	ROMANIA	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013RS1	SMI.022-RS	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	13772420.9			6/21/2017	2790285	SERBIA	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013RU1	SMI.022-RU	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	2014144309	5/27/2016		12/19/2017	2639932	RUSSIAN FEDERATION	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013RU2	SMI.022-RU-DIV	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	2017143402	3/18/2019		3/18/2019	2662245	RUSSIAN FEDERATION	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013SE1	SMI.022-SE	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	13772420.9			6/21/2017	2790285	SWEDEN	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013SG1	SMI.022-SG	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	11201406310R	2/27/2017		12/22/2016	11201406310R	SINGAPORE	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013SG2	SMI.022-SG-Div	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	10201610539R			6/21/2017	2790285	SINGAPORE	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ABANDONED
29124-0013SI1	SMI.022-SI	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	13772420.9			6/21/2017	2790285	SLOVENIA	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013SK1	SMI.022-SK	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	13772420.9			6/21/2017	2790285	SLOVAKIA	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013SM1	SMI.022-SM	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	13772420.9			6/21/2017	2790285	SAN MARINO	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013TH1	SMI.022-TH	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	1401005855	8/17/2017	189192			THAILAND	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	PUBLISHED
29124-0013TR1	SMI.022-TR	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	13772420.9			6/21/2017	2790285	TURKEY	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013WO1	SMI.022-WO	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	PCTUS2013/031055	10/10/2013	WO 2013/151708			WIPO	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC Assignee: SAMUMED, LLC Res/frame: 055197 / 0895 Recorded: 02/09/2021	John Hood, David Mark Wallace, Sunil Kumar KC	NAT PHASE
29124-0013ZA1	SMI.022-ZA	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	201406273			12/18/2019	201406273	SOUTH AFRICA	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0013ZA2	SMI.022-ZA-DIV	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	2019069377					SOUTH AFRICA	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	PENDING
29124-0013ZA3	SMI.022-ZA3	INDAZOLE INHIBITORS OF THE WNT SIGNAL PATHWAY AND THERAPEUTIC USES THEREOF	3/13/2013	2019069378					SOUTH AFRICA	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC	PENDING
29124-0014001	SMI.023	1H-PYRAZOLQ13,4-BIPYRIDINES AND THERAPEUTIC USES THEREOF	3/9/2013	13987,177	11/7/2013	US-2013-0296302-A1	11/1/2014	8,863,922	UNITED STATES	Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: SAMUMED, LLC Res/frame: 030652 / 0508 Recorded: 09/21/2013	John Hood, David Mark Wallace, Sunil Kumar KC	ISSUED
29124-0014002	SMI.023-CON1	1H-PYRAZOLQ13,4-BIPYRIDINES AND THERAPEUTIC USES THEREOF	9/5/2013	14019,147	1/2/2014	US-2014-0005369-A1	12/31/2013	8,618,128	UNITED STATES	Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: SAMUMED, LLC Res/frame: 031367 / 0729 Recorded: 10/11/2013	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014003	SMI.023-CON2	1H-PYRAZOLQ13,4-BIPYRIDINES AND THERAPEUTIC USES THEREOF	6/7/2014	14454,279	3/12/2015	US-2015-0072361-A1	4/21/2015	9,012,472	UNITED STATES	Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: SAMUMED, LLC Res/frame: 033574 / 0334 Recorded: 09/20/2014	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014004	SMI.023-CON3	1H-PYRAZOLQ13,4-BIPYRIDINES AND THERAPEUTIC USES THEREOF	2/12/2015	14621,222	6/4/2015	US-2015-0150862-A1	11/2/2016	9,233,104	UNITED STATES	Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: SAMUMED, LLC Res/frame: 035974 / 0037 Recorded: 03/03/2015	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014005	SMI.023-CON4	1H-PYRAZOLQ13,4-BIPYRIDINES AND THERAPEUTIC USES THEREOF	12/8/2015	14962,661	11/3/2016	US-2016-0318954-A1	3/7/2017	9,586,977	UNITED STATES	Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: SAMUMED, LLC Res/frame: 037684 / 0603 Recorded: 02/08/2016	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014006	SMI.023-CON5	1H-PYRAZOLQ13,4-BIPYRIDINES AND THERAPEUTIC USES THEREOF	1/31/2017	15420,368	11/23/2017	US-2017-0333409-A1	9/11/2018	10,071,086	UNITED STATES	Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: SAMUMED, LLC Res/frame: 041929 / 0582 Recorded: 02/22/2017	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED

29124-0014007	SMI.023-CON6	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	7/11/2018	18/032,905	5/9/2019	US-2019-0134013-A1	7/9/2019	10,342,768	UNITED STATES	Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: SAMUMED, LLC Reel/Frame: 048797 / 0807 Recorded: 04/04/2019 Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: SAMUMED, LLC Reel/Frame: 049736 / 0220 Recorded: 07/12/2019	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014008	SMI.023-CON7	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/29/2019	18/425,700	5/21/2020	US-2020-0155525-A1			UNITED STATES		John Hood, Sunil Kumar KC, David Mark Wallace	ABANDONED
29124-0014AE1	SMI.023-AE	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	1198/2014					UNITED ARAB EMIRATES		John Hood, Sunil Kumar KC, David Mark Wallace	ALLOWED
29124-0014AL1	SMI.023-AL	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13764942.8			8/21/2019	2770994	ALBANIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014AT1	SMI.023-AT	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13764942.8			8/21/2019	2770994	AUSTRIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014AU1	SMI.023-AU	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	2013256141	5/12/2018		8/25/2016	2013256141	AUSTRALIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014AJ2	SMI.023-AJ2	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	2016213874			11/7/2019	2016213874	AUSTRALIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014BA1	SMI.023-BA	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13764942.8			8/21/2019	2770994	BOSNIA AND HERZEGOVINA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014BE1	SMI.023-BE	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13764942.8			8/21/2019	2770994	BELGIUM	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014BG1	SMI.023-BG	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13764942.8			8/21/2019	2770994	BULGARIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014BR1	SMI.023-BR	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	BR1120140242844	9/24/2019	BR1120140242844			BRAZIL	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	PUBLISHED
29124-0014CA1	SMI.023-CA	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	2,854,229			4/10/2018	2,854,229	CANADA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014CH1	SMI.023-CH	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13764942.8			8/21/2019	2770994	SWITZERLAND	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014CL1	SMI.023-CL	1H-PYRAZOL[3,4-B]PYRIDINE DERIVATIVE COMPOUNDS, AS INHIBITORS OF ONE OR MORE PROTEINS IN THE WNT PATHWAY; PHARMACEUTICAL COMPOSITION COMPRISING THEM; AND USE THEREOF IN THE TREATMENT OF CANCER, DIABETIC RETINOPATHY, PULMONARY FIBROSIS, RHEUMATOID ARTHRITIS, ALZHEIMER'S DISEASE, INTER ALIA	5/3/2013	02983-2014	4/17/2015		8/6/2020	60285	CHILE	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014CN1	SMI.023-CN	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	201380023502 X	1/7/2015	CN104271133 A	10/13/2017	ZL201380023502 X	CHINA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014CN2	SMI.023-CN2	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	201710813857.9	12/1/2017	107417707			CHINA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ABANDONED
29124-0014CO1	SMI.023-CO	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	14-216348	128/2015		9/19/2017	32077	COLOMBIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014CY1	SMI.023-CY	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13764942.8			8/21/2019	2770994	CYPRUS	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014CZ1	SMI.023-CZ	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13764942.8			8/21/2019	2770994	CZECH REPUBLIC	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014DE1	SMI.023-DE	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13764942.8			8/21/2019	2770994	GERMANY	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014DX1	SMI.023-DX	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13764942.8			8/21/2019	2770994	DENMARK	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014EE1	SMI.023-EE	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13764942.8			8/21/2019	2770994	ESTONIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014EG1	SMI.023-EG	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	PCT 176112014			8/21/2019	2770994	EGYPT	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	PENDING
29124-0014EP1	SMI.023-EP	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13764942.8	9/3/2014	2770994	8/21/2019	2770994	EUROPEAN PATENT CONVENTION	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014EP2	SMI.023-EP-DIV	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	19179748.9	1/15/2020	3563800			EUROPEAN PATENT CONVENTION	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	PUBLISHED
29124-0014ES1	SMI.023-ES	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13764942.8			8/21/2019	2770994	SPAIN	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014FI1	SMI.023-FI	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13764942.8			8/21/2019	2770994	FINLAND	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014FR1	SMI.023-FR	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13764942.8			8/21/2019	2770994	FRANCE	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014GB1	SMI.023-GB	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13764942.8			8/21/2019	2770994	UNITED KINGDOM	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014GR1	SMI.023-GR	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13764942.8			8/21/2019	2770994	GREECE	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014HK1	SMI.023-HK	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	14110200.9	3/13/2015	119772A	4/29/2020	119772A	HONG KONG	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014HR1	SMI.023-HR	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13764942.8			8/21/2019	2770994	CROATIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014HU1	SMI.023-HU	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13764942.8			8/21/2019	2770994	HUNGARY	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014ID1	SMI.023-ID	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	P00201406368	5/4/2016	2016/03338	4/8/2019	DP0000057631	INDONESIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014ID2	SMI.023-ID DIV	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	P00201801832					INDONESIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ABANDONED
29124-0014IE1	SMI.023-IE	1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13764942.8			8/21/2019	2770994	IRELAND	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED

REEL: 058057 FRAME: 0402

29124-00141L1	SMI.023-IL	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	235018	2/28/2018	235018	5/29/2018	235018	ISRAEL	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-00141L2	SMI.023-IL-DIV	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	257312					ISRAEL	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ABANDONED
29124-00141N1	SMI.023-IN	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	8595CHENP/2014	7/1/2016	8595CHENP/2014 A	8/27/2019	319088	INDIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-00141N2	SMI.023-IN-DIV	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	201948025927	7/5/2019	201948025927 A	8/21/2019	2770994	INDIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ABANDONED
29124-00141S1	SMI.023-IS	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13784942.8					ICELAND	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-00141T1	SMI.023-IT	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13784942.8					ITALY	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-00141J1	SMI.023-JP	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	2015-510483	6/4/2015	2015-515989	9/15/2017	6209593	JAPAN	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-00141J2	SMI.023-JP-DIV	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	2017-173614	2/6/2018	2018-021065	8/3/2018	6378409	JAPAN	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-00141J3	SMI.023-JP-DIV2	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	2018-139863	10/18/2018	2018-182323			JAPAN	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ABANDONED
29124-00141K1	SMI.023-KR	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	10-2014-7027960					SOUTH KOREA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ALLOWED
29124-00141K2	SMI.023-KZ	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	2014/2532.1			4/14/2017	31987	KAZAKHISTAN	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-00141L1	SMI.023-LT	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13784942.8			8/21/2019	2770994	LITHUANIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-00141L1	SMI.023-LU	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13784942.8			8/21/2019	2770994	LUXEMBOURG	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-00141V1	SMI.023-LV	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13784942.8			8/21/2019	2770994	LATVIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-00141M1	SMI.023-MA	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	37577			5/31/2018	37577	MOROCCO	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-00141M1	SMI.023-MC	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13784942.8			8/21/2019	2770994	MONACO	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-00141E1	SMI.023-ME	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13784942.8		2770994	8/21/2019	P-2019-313	MONTENEGRO	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-00141K1	SMI.023-MK	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13784942.8			8/21/2019	2770994	MACEDONIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-00141M1	SMI.023-OM	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	J002910			6/6/2018	J002910	MACAO	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-00141T1	SMI.023-MT	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13784942.8			8/21/2019	2770994	MALTA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-00141X1	SMI.023-MX	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	MX/8/2014/012009	12/18/2014		1/18/2019	362485	MEXICO	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-00141X2	SMI.023-MX-DIV	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	MX/8/2019/000770					MEXICO	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ABANDONED
29124-00141Y1	SMI.023-MY	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	PI 2014003099			12/20/2019	MP-173049-A	MALAYSIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-00141L1	SMI.023-NL	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13784942.8			8/21/2019	2770994	NETHERLANDS	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-00141O1	SMI.023-NO	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13784942.8			8/21/2019	2770994	NORWAY	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-00141Z1	SMI.023-NZ	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	628282			6/1/2017	628282	NEW ZEALAND	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-00141Z2	SMI.023-NZ-DIV	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	724837	4/28/2017		8/28/2018	724837	NEW ZEALAND	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED/DROPPED
29124-00141Z3	SMI.023-NZ-DIV2	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	741907	5/25/2018				NEW ZEALAND	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ABANDONED
29124-00141P1	SMI.018-PR	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/4/2012	61642,915					UNITED STATES	Assignor: EPTHERIX, LLC Assignee: SAMUMED, LLC ResilFrame: 028442 / 0335 Recorded: 05/28/2012	John Hood, Sunil Kumar KC, David Mark Wallace	EXPIRED
29124-0014PE1	SMI.023-PE	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	001835-2014/DN	1/30/2015		8/28/2019	9587	PERU	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014PH1	SMI.023-PH	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	1-2014-502369	11/2/2015		7/27/2018	1-2014-502369	PHILIPPINES	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014PH2	SMI.023-PH-DIV	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	1-2017-501661	7/2/2016	1-2017-501661			PHILIPPINES	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ABANDONED
29124-0014PH3	SMI.023-PH-DIV2	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	1-2018-501552	4/1/2019	37			PHILIPPINES	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ABANDONED
29124-0014PL1	SMI.023-PL	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13784942.8			8/21/2019	2770994	POLAND	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014PT1	SMI.023-PT	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13784942.8			8/21/2019	2770994	PORTUGAL	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014RO1	SMI.023-RO	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13784942.8			8/21/2019	2770994	ROMANIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014RS1	SMI.023-RS	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13784942.8			8/21/2019	2770994	SERBIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014RU1	SMI.023-RU	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	2014148773	6/27/2016		5/24/2019	2689141	RUSSIAN FEDERATION	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014SE1	SMI.023-SE	1-HPYRAZOLQ13,4-BJPYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13784942.8			8/21/2019	2770994	SWEDEN	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED

29124-00145G1	SMI.023-SG	1-HYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	11201407148X	11201407148X	1/9/2018	11201407148X	SINGAPORE	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-00145G2	SMI.023-SG-2	1-HYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	10201710585U	10201710585U	2/27/2018		SINGAPORE	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ABANDONED
29124-00145I1	SMI.023-SI	1-HYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13764942.8	13764942.8		2770984	SLOVENIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-00145K1	SMI.023-SK	1-HYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13764942.8	13764942.8		2770984	SLOVAKIA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-00145M1	SMI.023-SM	1-HYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13764942.8	13764942.8		2770984	SAN MARINO	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014TH1	SMI.023-TH	1-HYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	1401006251	155648	9/28/2016		THAILAND	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	PUBLISHED
29124-0014TR1	SMI.023-TR	1-HYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	13764942.8			201916382	TURKEY	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	ISSUED
29124-0014WO1	SMI.023-RU	1-HYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	PCT/US2013/039484		11/7/2013		WIPO	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: VINITHERX, LLC Res/Frame: 033855 / 0503 Recorded: 10/15/2014	John Hood, Sunil Kumar KC, David Mark Wallace	NAT PHASE
29124-0014ZA1	SMI.023-ZA	1-HYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	2014063274				SOUTH AFRICA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	PENDING
29124-0014ZA2	SMI.023-ZA-DIV	1-HYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	201906379				SOUTH AFRICA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	PENDING
29124-0014ZA3	SMI.023-ZA-DIV2	1-HYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	5/3/2013	201906380				SOUTH AFRICA	SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	PENDING
29124-0015P01	EX.001b	METHODS FOR IDENTIFYING COMPOUNDS THAT MODULATE WNT SIGNALING IN CANCER CELLS	7/25/2008	61083.870				UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: VINITHERX, LLC Res/Frame: 0237570444 Recorded: 1/11/2010	Desheng Lu, Charlene F. Barroga, Dennis Carson	EXPIRED
29124-0026001	SMa.014	BETA- AND GAMMA-DIKETONES AND GAMMA-HYDROXYKETONES AS WNT/BETA-CATENIN SIGNALING PATHWAY ACTIVATORS	6/17/2011	132111665	US-2012-0046320-A1	2/23/2012	8,609,717	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: VINITHERX, LLC Res/Frame: 027035 / 0295 Recorded: 10/10/2011	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0026002	SMa.014-CON1	B- AND gamma-DIKETONES AND gamma-HYDROXYKETONES AS WNT/BETA-CATENIN SIGNALING PATHWAY ACTIVATORS	9/5/2013	140191062	US-2014-0005228-A1	1/2/2014	8,629,176	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: VINITHERX, LLC Res/Frame: 031389 / 0915 Recorded: 10/11/2013	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0026003	SMa.014-CON2	B- AND gamma-DIKETONES AND gamma-HYDROXYKETONES AS WNT/BETA-CATENIN SIGNALING PATHWAY ACTIVATORS	11/21/2013	14086529	US-2014-0009602-A1	3/20/2014	8,621,413	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: SAMUMED, LLC Res/Frame: 031760 / 0888 Recorded: 12/13/2013	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0026004	SMa.014-CON3	B- AND gamma-DIKETONES AND gamma-HYDROXYKETONES AS WNT/BETA-CATENIN SIGNALING PATHWAY ACTIVATORS	11/19/2014	14547858	US-2015-0299174-A1	10/22/2015	9,303,010	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: VINITHERX, LLC Res/Frame: 034475 / 0498 Recorded: 12/11/2014	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED

29124-0026005	SMa.014-CON4	B- AND y-DIKETONES AND y-HYDROXYKETONES AS WMT/B-CATENIN SIGNALING PATHWAY ACTIVATORS	11/19/2014	14/547,951	10/22/2015	US-2015-0299157-A1	11/15/2016	9,493,437	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: WINTHERIX, LLC Reel/Frame: 034453 / 0649 Recorded: 12/10/2014 Assignor: WINTHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 034453 / 0679 Recorded: 12/10/2014 Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: WINTHERIX, LLC Reel/Frame: 040494 / 0350 Recorded: 12/02/2016	ISSUED
29124-0026006	SMa.014-CON5	B- AND y-DIKETONES AND y-HYDROXYKETONES AS WMT/B-CATENIN SIGNALING PATHWAY ACTIVATORS	11/11/2016	15/549,118	8/31/2017	US-2017-0246154-A1	2/6/2018	9,864,053	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: WINTHERIX, LLC Reel/Frame: 040494 / 0350 Recorded: 12/02/2016	ISSUED
29124-0026007	SMa.014-CON6	B- AND y-DIKETONES AND y-HYDROXYKETONES AS WMT/B-CATENIN SIGNALING PATHWAY ACTIVATORS	12/27/2017	15/655,483	11/22/2018	US-2018-0334000-A1	9/11/2019	10,314,832	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: WINTHERIX, LLC Reel/Frame: 047131 / 0703 Recorded: 10/11/2018 Assignor: WINTHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 047131 / 0772 Recorded: 10/11/2018	ISSUED
29124-0026008	SMa.014-CON7	B- AND y-DIKETONES AND y-HYDROXYKETONES AS WMT/B-CATENIN SIGNALING PATHWAY ACTIVATORS	9/4/2019	16/430,741	4/23/2020	US-2020-0121663-A1			UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: WINTHERIX, LLC Reel/Frame: 049735 / 0472 Recorded: 07/12/2019 Assignor: WINTHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 049735 / 0577 Recorded: 07/12/2019	ABANDONED
29124-0026009	SMa.014-CON8	B- AND y-DIKETONES AND y-HYDROXYKETONES AS WMT/B-CATENIN SIGNALING PATHWAY ACTIVATORS	12/7/2020	17/113,895					UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: WINTHERIX, LLC Reel/Frame: 054561/0037 Recorded: 12/8/2020 Assignor: WINTHERIX, LLC Assignee: SAMUMED, LLC Reel/Frame: 054561/0438 Recorded: 12/8/2020	PENDING
29124-0026011	SMa.014NP-AL	DIKETONES AND HYDROXYKETONES AS CATENIN SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605652	ALBANIA	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: WINTHERIX, LLC Reel/Frame: 049735 / 0472 Recorded: 07/12/2019	ISSUED
29124-0026011	SMa.014NP-AT	DIKETONES AND HYDROXYKETONES AS CATENIN SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605652	AUSTRIA	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: WINTHERIX, LLC Reel/Frame: 049735 / 0472 Recorded: 07/12/2019	ISSUED
29124-0026011	SMa.014NP-AU	DIKETONES AND HYDROXYKETONES AS CATENIN SIGNALING PATHWAY ACTIVATORS	8/17/2011	2011291989	8/20/2015		12/3/2015	2011291989	AUSTRALIA	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: WINTHERIX, LLC Reel/Frame: 049735 / 0472 Recorded: 07/12/2019	ISSUED
29124-0026012	SMa.014NP-AU-DIV	DIKETONES AND HYDROXYKETONES AS CATENIN SIGNALING PATHWAY ACTIVATORS	8/17/2011	2015256299	10/19/2017		2/1/2018	2015256299	AUSTRALIA	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: WINTHERIX, LLC Reel/Frame: 049735 / 0472 Recorded: 07/12/2019	ISSUED
29124-0026013	SMa.014NP-AU-DIV2	DIKETONES AND HYDROXYKETONES AS CATENIN SIGNALING PATHWAY ACTIVATORS	8/17/2011	2016200333	2/27/2020	20162000333			AUSTRALIA	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: WINTHERIX, LLC Reel/Frame: 049735 / 0472 Recorded: 07/12/2019	ABANDONED
29124-0026011	SMa.014NP-BE	DIKETONES AND HYDROXYKETONES AS CATENIN SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605652	BELGIUM	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: WINTHERIX, LLC Reel/Frame: 049735 / 0472 Recorded: 07/12/2019	ISSUED
29124-0026011	SMa.014NP-BG	DIKETONES AND HYDROXYKETONES AS CATENIN SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605652	BULGARIA	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: WINTHERIX, LLC Reel/Frame: 049735 / 0472 Recorded: 07/12/2019	ISSUED
29124-0026011	SMa.014NP-BR	DIKETONES AND HYDROXYKETONES AS CATENIN SIGNALING PATHWAY ACTIVATORS	8/17/2011	BR112013003631-1	8/30/2016				BRAZIL	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: WINTHERIX, LLC Reel/Frame: 049735 / 0472 Recorded: 07/12/2019	PUBLISHED
29124-0026011	SMa.014NP-CA	DIKETONES AND HYDROXYKETONES AS CATENIN SIGNALING PATHWAY ACTIVATORS	8/17/2011	2607419			9/24/2019	2607419	CANADA	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: WINTHERIX, LLC Reel/Frame: 049735 / 0472 Recorded: 07/12/2019	ISSUED
29124-0026011	SMa.014NP-CH	DIKETONES AND HYDROXYKETONES AS CATENIN SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605652	SWITZERLAND	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: WINTHERIX, LLC Reel/Frame: 049735 / 0472 Recorded: 07/12/2019	ISSUED

29124-0026CN1	Sma.014NP-CN	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	201160050153.1	6/12/2013	CN 103153053 A	2/18/2015	CN 103153053 B	CHINA	SAMUMIED, LLC	ISSUED
29124-0026CN2	Sma.014NP-CN-DIV	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	201510019522.0	6/3/2015	CN 104672202	7/28/2017	ZL201510019522.0	CHINA	SAMUMIED, LLC	ISSUED
29124-0026CY1	Sma.014NP-CY	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	CYPRUS	SAMUMIED, LLC	ISSUED
29124-0026CZ1	Sma.014NP-CZ	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	CZECH REPUBLIC	SAMUMIED, LLC	ISSUED
29124-0026DE1	Sma.014NP-DE	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7		2605552	11/8/2017	602011043221.4	GERMANY	SAMUMIED, LLC	ISSUED
29124-0026DK1	Sma.014NP-DK	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	DENMARK	SAMUMIED, LLC	ISSUED
29124-0026EE1	Sma.014NP-EE	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	ESTONIA	SAMUMIED, LLC	ISSUED
29124-0026EP1	Sma.014NP-EP	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7	9/26/2013	2605552	11/8/2017	2605552	EUROPEAN PATENT CONVENTION	SAMUMIED, LLC	ISSUED
29124-0026EP2	Sma.014NP-EP-DIV	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	17193280.9	4/25/2018	3311666	11/8/2017	2605552	EUROPEAN PATENT CONVENTION	SAMUMIED, LLC	ALLOWED
29124-0026ES1	Sma.014NP-ES	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	SPAIN	SAMUMIED, LLC	ISSUED
29124-0026FI1	Sma.014NP-FI	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	FINLAND	SAMUMIED, LLC	ISSUED
29124-0026FR1	Sma.014NP-FR	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	FRANCE	SAMUMIED, LLC	ISSUED
29124-0026GB1	Sma.014NP-GB	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	UNITED KINGDOM	SAMUMIED, LLC	ISSUED
29124-0026GR1	Sma.014NP-GR	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	GREECE	SAMUMIED, LLC	ISSUED
29124-0026HK1	Sma.014NP-HK	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	131137456.8	3/14/2014	1185347A	7/13/2018	1185347	HONG KONG	SAMUMIED, LLC	ISSUED
29124-0026HK2	Sma.014NP-HK-DIV	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	18113605.0	7/26/2019	1254638			HONG KONG	SAMUMIED, LLC	PUBLISHED
29124-0026HR1	Sma.014NP-HR	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	CROATIA	SAMUMIED, LLC	ISSUED
29124-0026HU1	Sma.014NP-HU	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	HUNGARY	SAMUMIED, LLC	ISSUED
29124-0026IE1	Sma.014NP-IE	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	IRELAND	SAMUMIED, LLC	ISSUED
29124-0026IN1	Sma.014NP-IN	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	1345CHENP2013	6/3/2016	1345CHENP2013 A			INDIA	SAMUMIED, LLC	PUBLISHED
29124-0026IS1	Sma.014NP-IS	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	ICELAND	SAMUMIED, LLC	ISSUED
29124-0026IT1	Sma.014NP-IT	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	50201600000346.0	ITALY	SAMUMIED, LLC	ISSUED
29124-0026JP1	Sma.014NP-JP	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	2013-52496.1	9/12/2013	2013-52496.1	21/02/2017	6068664	JAPAN	SAMUMIED, LLC	ISSUED
29124-0026JP2	Sma.014NP-JP-DIV	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	2016-161627	3/9/2017	2017-046192	6/23/2017	6162306	JAPAN	SAMUMIED, LLC	ISSUED
29124-0026JP3	Sma.014NP-JP-DIV2	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	2017-116469	9/21/2017	2017-16573	9/28/2018	6407361	JAPAN	SAMUMIED, LLC	ISSUED
29124-0026LT1	Sma.014NP-LT	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	LITHUANIA	SAMUMIED, LLC	ISSUED
29124-0026LU1	Sma.014NP-LU	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	LUXEMBOURG	SAMUMIED, LLC	ISSUED
29124-0026LV1	Sma.014NP-LV	DIKETONES AND HYDROXYKETONES AS CATEenin SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	LATVIA	SAMUMIED, LLC	ISSUED

29124-0028MC1	SMa.014NP-MC	DIKETONES AND HYDROXYKETONES AS CATEININ SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	MONACO	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0028MK1	SMa.014NP-MK	DIKETONES AND HYDROXYKETONES AS CATEININ SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	MACEDONIA	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0028MO2	SMa.014-MO	DIKETONES AND HYDROXYKETONES AS CATEININ SIGNALING PATHWAY ACTIVATORS	8/17/2011	J002745			14/2018	J002745	MACAO	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0028MT1	SMa.014NP-MT	DIKETONES AND HYDROXYKETONES AS CATEININ SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	MALTA	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0028MX1	SMa.014NP-MX	DIKETONES AND HYDROXYKETONES AS CATEININ SIGNALING PATHWAY ACTIVATORS	8/17/2011	MX/ra/2013/001940	6/16/2013		6/3/2016	340997	MEXICO	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0028MX2	SMa.014NP-MX-Div	DIKETONES AND HYDROXYKETONES AS CATEININ SIGNALING PATHWAY ACTIVATORS	8/17/2011	MX/ra/2016/010038			2/14/2018	354133	MEXICO	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0028MX3	SMa.014NP-MX-Div2	DIKETONES AND HYDROXYKETONES AS CATEININ SIGNALING PATHWAY ACTIVATORS	8/17/2011	MX/ra/2016/001868			11/8/2017	2605552	MEXICO	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ABANDONED
29124-0028NL1	SMa.014NP-NL	DIKETONES AND HYDROXYKETONES AS CATEININ SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	NETHERLANDS	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0028NO1	SMa.014NP-NO	DIKETONES AND HYDROXYKETONES AS CATEININ SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	NORWAY	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0028PO1	WX.011	6- and 7-diketones and 7-hydroxyketones as Wnt10g-catenin signaling pathway activators	8/19/2010	61574.687					UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: SAMUMED, LLC ResI/Frame: 024693/0006 Recorded: 8/29/2010	SUNIL KUMAR, David Mark Wallace, John Hood, Charlene F. Barroga	EXPIRED
29124-0028PO2	WX.013-PR	B- AND 7-DIKETONES AND 7-HYDROXYKETONES AS WNT10B-CATEININ SIGNALING PATHWAY ACTIVATORS	12/29/2010	61427.974					UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: WINTHERIX, LLC ResI/Frame: 025148 / 0358 Recorded: 04/19/2011	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	EXPIRED
29124-0028PL1	SMa.014NP-PL	DIKETONES AND HYDROXYKETONES AS CATEININ SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	POLAND	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0028PT1	SMa.014NP-PT	DIKETONES AND HYDROXYKETONES AS CATEININ SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	PORTUGAL	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0028RO1	SMa.014NP-RO	DIKETONES AND HYDROXYKETONES AS CATEININ SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	ROMANIA	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0028RS1	SMa.014NP-RS	DIKETONES AND HYDROXYKETONES AS CATEININ SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	SERBIA	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0028RU1	SMa.014NP-RU	DIKETONES AND HYDROXYKETONES AS CATEININ SIGNALING PATHWAY ACTIVATORS	8/17/2011	2013111835	9/27/2014		7/27/2016	2592894	RUSSIAN FEDERATION	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0028RU2	SMa.014NP-RU	DIKETONES AND HYDROXYKETONES AS CATEININ SIGNALING PATHWAY ACTIVATORS	8/17/2011	2016124136	12/3/2018	2016124136A			RUSSIAN FEDERATION	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ABANDONED
29124-0028SE1	SMa.014NP-SE	DIKETONES AND HYDROXYKETONES AS CATEININ SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	SWEDEN	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0028SI1	SMa.014NP-SI	DIKETONES AND HYDROXYKETONES AS CATEININ SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	SLOVENIA	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0028SK1	SMa.014NP-SK	DIKETONES AND HYDROXYKETONES AS CATEININ SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	SLOVAKIA	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0028SM1	SMa.014NP-SM	DIKETONES AND HYDROXYKETONES AS CATEININ SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	SAN MARINO	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0028TR1	SMa.014NP-TR	DIKETONES AND HYDROXYKETONES AS CATEININ SIGNALING PATHWAY ACTIVATORS	8/17/2011	11818727.7			11/8/2017	2605552	TURKEY	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0028VO1	WX.014NP-PCT	DIKETONES AND HYDROXYKETONES AS CATEININ SIGNALING PATHWAY ACTIVATORS	8/17/2011	PCTUS2011048086	2/23/2012	WO2012/024404			WIPO	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: SAMUMED, LLC ResI/Frame: 055375 / 0858 Recorded: 02/23/2021	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	NAT PHASE

29124-0031001	SMI.024	1/8/2014	14/149,948	7/10/2014	US-2014-0194441-A1	3/6/2018	9,908,857	UNITED STATES	Assignor: Sunil Kumar KC, John Hood Assignee: SAMUMED, LLC Reel/Frame: 032200 / 0146 Recorded: 02/12/2014	Sunil Kumar KC, John Hood	ISSUED
29124-0031002	SMI.024-DIV	2/6/2018	15,688,403	6/14/2018	US-2018-0162840-A1	1/22/2019	10,183,929	UNITED STATES	Assignor: Sunil Kumar KC, John Hood Assignee: SAMUMED, LLC Reel/Frame: 036025 / 0001 Recorded: 07/08/2015	Sunil Kumar KC, John Hood	ISSUED
29124-0031003	SMI.024-CON	1/18/2019	18,652,055	11/21/2019	US-2019-0552279-A1	5/19/2020	10,654,832	UNITED STATES	Assignor: Sunil Kumar KC, John Hood Assignee: SAMUMED, LLC Reel/Frame: 045745 / 0152 Recorded: 05/08/2018	Sunil Kumar KC, John Hood	ISSUED
29124-0031BE1	SMI.024-BE	1/8/2014	14,737,972.1			7/17/2019	29,431,986	BELGIUM	Assignor: Sunil Kumar KC, John Hood Assignee: SAMUMED, LLC Reel/Frame: 049487 / 0487 Recorded: 06/17/2019	Sunil Kumar KC, John Hood	ISSUED
29124-0031CA1	SMI.024-CA	1/8/2014	28,874,000					CANADA	SAMUMED, LLC	Sunil Kumar KC, John Hood	ABANDONED
29124-0031CH1	SMI.024-CH	1/8/2014	14,737,972.1			7/17/2019	29,431,986	SWITZERLAND	SAMUMED, LLC	Sunil Kumar KC, John Hood	ISSUED
29124-0031CN1	SMI.024-CN	1/8/2014	20,148,600.3031.9	12/22/2015	CN 105120682 A			CHINA	SAMUMED, LLC	Sunil Kumar KC, John Hood	ABANDONED
29124-0031DE1	SMI.024-DE	1/8/2014	14,737,972.1			7/17/2019	60,201,405,0135.4	GERMANY	SAMUMED, LLC	Sunil Kumar KC, John Hood	ISSUED
29124-0031EP1	SMI.024-EP	1/8/2014	14,737,972.1	11/18/2015	2843198	7/17/2019	29,431,986	EUROPEAN PATENT CONVENTION	SAMUMED, LLC	Sunil Kumar KC, John Hood	ISSUED
29124-0031FR1	SMI.024-FR	1/8/2014	14,737,972.1			7/17/2019	29,431,986	FRANCE	SAMUMED, LLC	Sunil Kumar KC, John Hood	ISSUED
29124-0031GB1	SMI.024-GB	1/8/2014	14,737,972.1			7/17/2019	29,431,986	UNITED KINGDOM	SAMUMED, LLC	Sunil Kumar KC, John Hood	ISSUED
29124-0031IE1	SMI.024-IE	1/8/2014	14,737,972.1			7/17/2019	29,431,986	IRELAND	SAMUMED, LLC	Sunil Kumar KC, John Hood	ISSUED
29124-0031JP1	SMI.024-JP	1/8/2014	20,155,853	2/12/2016	2016-504387	6/22/2018	635,5848	JAPAN	SAMUMED, LLC	Sunil Kumar KC, John Hood	ISSUED
29124-0031MX1	SMI.024-MX	1/8/2014	MX/a/2015/008860	5/10/2016		12/16/2019	370,487	MEXICO	SAMUMED, LLC	Sunil Kumar KC, John Hood	ISSUED
29124-0031NL1	SMI.024-NL	1/8/2014	14,737,972.1			7/17/2019	29,431,986	NETHERLANDS	SAMUMED, LLC	Sunil Kumar KC, John Hood	ISSUED
29124-0031P01	SMI.020	1/8/2013	61,750,221					UNITED STATES	Assignor: Sunil Kumar KC, John Hood Assignee: SAMUMED, LLC Reel/Frame: 029765 / 0258 Recorded: 02/09/2013	Sunil Kumar KC, John Hood	EXPIRED
29124-0031SE1	SMI.024-SE	1/8/2014	14,737,972.1			7/17/2019	29,431,986	SWEDEN	SAMUMED, LLC	Sunil Kumar KC, John Hood	ISSUED
29124-0031WO1	SMI.024PCT	1/8/2014	PCT/US2014/010607	7/17/2014	WO 2014/110086			WIPO	Assignor: Sunil Kumar KC, John Hood Assignee: SAMUMED, LLC Reel/Frame: 051953 / 0890 Recorded: 02/28/2020	Sunil Kumar KC, John Hood	NAT PHASE
29124-0032001	SMIa.025	2/21/2014	14,187,063	8/28/2014	US-2014-0243349-A1	1/3/2017	9,533,975	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 029437 / 0057 Recorded: 03/13/2014	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0032002	SMIa.025-CON	11/21/2016	15,535,903	9/14/2017	US-2017-0280176-A1	4/24/2018	9,951,055	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 040567 / 0628 Recorded: 02/07/2016	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0032003	SMIa.025DIV2	3/12/2016	15,918,086	2/21/2019	US-2016-0655227-A1	10/29/2019	10,457,672	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 049746 / 0881 Recorded: 07/14/2019	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED

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REEL: 058057 FRAME: 0408

29124-0032004	SMA.025DIV3	GAMMA-DIKETONES AS WNT1/BETA-CATENIN SIGNALING PATHWAY ACTIVATORS	9/20/2019	16/577,562	7/16/2020	US-2020-0223834-A1		UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 051435 / 0096 Recorded: 01/07/2020 SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ALLOWED
29124-0032AE1	SMA.025-AE	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	1059/2015		2668249		UNITED ARAB EMIRATES	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	PENDING
29124-0032AL1	SMA.025-AL	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	14753569.4				ALBANIA	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0032AT1	SMA.025-AT	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	14753569.4				AUSTRIA	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0032AU1	SMA.025-AU	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	2014218720				AUSTRALIA	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0032AU2	SMA.025-AU DIV	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	2016275021				AUSTRALIA	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ABANDONED
29124-0032BA1	SMA.025-BA	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	14753569.4		2668249		BOSNIA AND HERZEGOVINA	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0032BE1	SMA.025-BE	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	14753569.4				BELGIUM	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0032BG1	SMA.025-BG	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	14753569.4				BULGARIA	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0032BR1	SMA.025-BR	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	BR 11 2015 020391.4	8/20/2019	JOURNAL # 2537		BRAZIL	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	PUBLISHED
29124-0032CA1	SMA.025-CA	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	2901671				CANADA	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	PENDING
29124-0032CH1	SMA.025-CH	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	14753569.4				SWITZERLAND	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0032CL1	SMA.025-CL	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	02363-2015	3/11/2016			CHILE	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0032CL2	SMA.025-CL-DIV	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	01367-2016	7/14/2017			CHILE	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	PEND/DROP
29124-0032CL3	SMA.025-CL-DIV2	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	01274-2019				CHILE	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ABANDONED
29124-0032CN1	SMA.025-CN	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	20146002762.X	12/23/2015	CN105166696A		CHINA	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	PEND/DROP
29124-0032CO1	SMA.025-CO	GAMMA-DIKETONES AS WNT1/BETA-CATENIN SIGNALING PATHWAY ACTIVATORS	2/21/2014	15-224754	8/31/2016			COLOMBIA	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0032CY1	SMA.025-CY	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	14753569.4				CYPRUS	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0032CZ1	SMA.025-CZ	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	14753569.4	3/13/2019	2668249T3		CZECH REPUBLIC	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0032DE1	SMA.025-DE	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	14753569.4		2668249		GERMANY	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0032DK1	SMA.025-DK	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	14753569.4				DENMARK	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0032EE1	SMA.025-EE	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	14753569.4				ESTONIA	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0032EG1	SMA.025-EG	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	PCT/1302/2015				EGYPT	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	PENDING
29124-0032EP1	SMA.025-EP	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	14753569.4	1/20/2016	2668249		EUROPEAN PATENT CONVENTION	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0032EP2	SMA.025-EP-DIV	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	16162474.9	3/20/2019	3455325		EUROPEAN PATENT CONVENTION	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	PUBLISHED
29124-0032ES1	SMA.025-ES	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	14753569.4				SPAIN	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED
29124-0032FI1	SMA.025-FI	Gamma-Diketones As WNT1/Beta-Catenin Signaling Pathway Activators	2/21/2014	14753569.4				FINLAND	SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga	ISSUED

29124-0032FR1	SMA.025-FR	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	14753599.4		11/14/2018	2988249	FRANCE	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032GB1	SMA.025-GB	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	14753599.4		11/14/2018	2988249	UNITED KINGDOM	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032GR1	SMA.025-GR	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	14753599.4		11/14/2018	2988249	GREECE	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032HK1	SMA.025-HK	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	16102831.0	8/12/2016	10/4/2019	1214953	HONG KONG	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032HR1	SMA.025-HR	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	14753599.4	3/22/2019	11/14/2018	2988249	CROATIA	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032HU1	SMA.025-HU	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	14753599.4		11/14/2018	2988249	HUNGARY	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032ID1	SMA.025-ID	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	P00201505284	10/7/2016	10/8/2019	IDP0000663322	INDONESIA	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032IE1	SMA.025-IE	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	14753599.4		11/14/2018	2988249	IRELAND	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032IL1	SMA.025-IL	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	240628	12/31/2019	4/1/2020	240628	ISRAEL	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032IN1	SMA.025-IN	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	5692/CHENIP/2015	7/1/2016	12/13/2019	327326	INDIA	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032IS1	SMA.025-IS	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	14753599.4		11/14/2018	2988249	ICELAND	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032IT1	SMA.025-IT	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	14753599.4		11/14/2018	2988249	ITALY	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032JP1	SMA.025-JP	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	2015-559015	5/19/2016	9/14/2018	6401189	JAPAN	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032JP2	SMA.025-JP-DIV	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	2018-196538	2/28/2019			JAPAN	SAMUMED, LLC	ABANDONED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032KR1	SMA.025-KR	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	10-2015-1028034				SOUTH KOREA	SAMUMED, LLC	PENDING	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032KZ1	SMA.025-KZ	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	2019/1037.1		4/14/2017	31973	KAZAKHISTAN	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032LT1	SMA.025-LT	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	14753599.4		11/14/2018	2988249	LITHUANIA	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032LU1	SMA.025-LU	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	14753599.4		11/14/2018	2988249	LUXEMBOURG	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032LV1	SMA.025-LV	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	14753599.4		11/14/2018	2988249	LATVIA	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032MA1	SMA.025-MA	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	38421		2/28/2019	38421	MOROCCO	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032MC1	SMA.025-MC	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	14753599.4		11/14/2018	2988249	MONACO	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032ME1	SMA.025-ME	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	14753599.4		11/14/2018	P-2019-28	MONTENEGRO	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032MK1	SMA.025-MK	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	14753599.4		11/14/2018	2988249	MACEDONIA	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032MT1	SMA.025-MT	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	14753599.4		11/14/2018	2988249	MALTA	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032MX1	SMA.025-MX	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	MX/8/2015/010948	8/3/2016	10/10/2019	388683	MEXICO	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032MY1	SMA.025-MY	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	PI 2015022083		7/2/2020	MY-176004-A	MALAYSIA	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032MZ1	SMA.025-MZ-DIV	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	PI020004302		11/14/2018	2988249	MALAYSIA	SAMUMED, LLC	PENDING	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga
29124-0032NL1	SMA.025-NL	Gamma-Diketones As WNT16-Catenin Signaling Pathway Activators	2/21/2014	14753599.4		11/14/2018	2988249	NETHERLANDS	SAMUMED, LLC	ISSUED	Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga

29124-0032NO1	SMA.025-NO	Gamma-Diketones As WNT1F-Catenin Signaling Pathway Activators	2/21/2014	14753599.4	11/4/2018	2988249	NORWAY	SAMUMED, LLC	ISSUED
29124-0032NZ1	SMA.025-NZ	Gamma-Diketones As WNT1F-Catenin Signaling Pathway Activators	2/21/2014	711126			NEW ZEALAND	SAMUMED, LLC	ABANDONED
29124-0032NZ2	SMA.025-NZ-DIV	Gamma-Diketones As WNT1F-Catenin Signaling Pathway Activators	2/21/2014	750600			NEW ZEALAND	SAMUMED, LLC	ABANDONED
29124-0032P01	SMA.021-PR	Gamma-Diketones As WNT1F-Catenin Signaling Pathway Activators	2/22/2013	61766.03			UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 031407 / 0226 Recorded: 10/15/2013	EXPIRED
29124-0032PE1	SMA.025-PE	Gamma-Diketones As WNT1F-Catenin Signaling Pathway Activators	2/21/2014	001796-2019/DIN	12/7/2015	9723	PERU	SAMUMED, LLC	ISSUED
29124-0032PH1	SMA.025-PH	Gamma-Diketones As WNT1F-Catenin Signaling Pathway Activators	2/21/2014	1-2015-501847	12/7/2015		PHILIPPINES	SAMUMED, LLC	ALLOWED
29124-0032PL1	SMA.025-PL	Gamma-Diketones As WNT1F-Catenin Signaling Pathway Activators	2/21/2014	14753599.4		2988249	POLAND	SAMUMED, LLC	ISSUED
29124-0032PT1	SMA.025-PT	Gamma-Diketones As WNT1F-Catenin Signaling Pathway Activators	2/21/2014	14753599.4		2988249	PORTUGAL	SAMUMED, LLC	ISSUED
29124-0032RO1	SMA.025-RO	Gamma-Diketones As WNT1F-Catenin Signaling Pathway Activators	2/21/2014	14753599.4		2988249	ROMANIA	SAMUMED, LLC	ISSUED
29124-0032RS1	SMA.025-RS	Gamma-Diketones As WNT1F-Catenin Signaling Pathway Activators	2/21/2014	14753599.4		P-2019/0139	SERBIA	SAMUMED, LLC	ISSUED
29124-0032RU1	SMA.025-RU	Gamma-Diketones As WNT1F-Catenin Signaling Pathway Activators	2/21/2014	2015140118A	3/28/2017	2980716	RUSSIAN FEDERATION	SAMUMED, LLC	ISSUED
29124-0032RU2	SMA.025-RU-DIV	Gamma-Diketones As WNT1F-Catenin Signaling Pathway Activators	2/21/2014	2019104082A	4/10/2019		RUSSIAN FEDERATION	SAMUMED, LLC	PEND/DROP
29124-0032SE1	SMA.025-SE	Gamma-Diketones As WNT1F-Catenin Signaling Pathway Activators	2/21/2014	14753599.4		2988249	SWEDEN	SAMUMED, LLC	ISSUED
29124-0032SG1	SMA.025-SG	Gamma-Diketones As WNT1F-Catenin Signaling Pathway Activators	2/21/2014	11201506592S			SINGAPORE	SAMUMED, LLC	ABANDONED
29124-0032SG2	SMA.025-SG-DIV	Gamma-Diketones As WNT1F-Catenin Signaling Pathway Activators	7/21/2016	10201606032V	9/29/2016	10201606032V	SINGAPORE	SAMUMED, LLC	ISSUED
29124-0032SI1	SMA.025-SI	Gamma-Diketones As WNT1F-Catenin Signaling Pathway Activators	2/21/2014	14753599.4	6/4/2019	2988249	SLOVENIA	SAMUMED, LLC	ISSUED
29124-0032SK1	SMA.025-SK	Gamma-Diketones As WNT1F-Catenin Signaling Pathway Activators	2/21/2014	14753599.4		2988249	SLOVAKIA	SAMUMED, LLC	ISSUED
29124-0032SM1	SMA.025-SM	Gamma-Diketones As WNT1F-Catenin Signaling Pathway Activators	2/21/2014	14753599.4		SM-T-201900059	SAN MARINO	SAMUMED, LLC	ISSUED
29124-0032TH1	SMA.025-TH	Gamma-Diketones As WNT1F-Catenin Signaling Pathway Activators	2/21/2014	1501004770A	10/2/2019		THAILAND	SAMUMED, LLC	PUBLISHED
29124-0032TR1	SMA.025-TR	Gamma-Diketones As WNT1F-Catenin Signaling Pathway Activators	2/21/2014	14753599.4		201901496	TURKEY	SAMUMED, LLC	ISSUED
29124-0032VO1	SMA.029PCT	Gamma-Diketones As WNT1F-Catenin Signaling Pathway Activators	2/21/2014	PCTUS2014/017794	8/28/2014		WIPO	Assignor: Sunil Kumar KC, David Mark Wallace, John Hood, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 055375 / 0969 Recorded: 02/23/2021	NAT PHASE
29124-0032ZA1	SMA.025-ZA	Gamma-Diketones As WNT1F-Catenin Signaling Pathway Activators	2/21/2014	201506438			SOUTH AFRICA	SAMUMED, LLC	PENDING
29124-0030001	SMI.028	5-SUBSTITUTED INDANOLE-3-CARBOXYAMIDES AND PREPARATION AND USE THEREOF	3/20/2015	14/864.517	9/24/2015	9.745.271	UNITED STATES	Assignor: John Hood, Sunil Kumar KC, David Mark Wallace, Gopi Venkatesh, Brian Joseph Hoffens, Ching Itek, Venkatesh Bolu, Brian Eastman Assignee: SAMUMED, LLC Reel/Frame: 035340 / 0015 Recorded: 04/09/2015	ISSUED

PATENT
REEL: 058057 FRAME: 0411

29124-0050002	SMI.028-DIV	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	7/19/2017	15/653,747	5/10/2018	US-2018-0127377-A1	6/2/2020	10,689,240	UNITED STATES	Assignor: John Hood, Sunil Kumar KC, David Mark Wallace, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Chi Ching Mak, Venkataiah Bolli, Brian Eastman Assignee: SAMUMED, LLC Reel/Frame: 043052 / 0335 Recorded: 07/20/2017 SAMUMED, LLC	ISSUED
29124-0050AE1	SMI.028-AE	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	3/20/2015	1001/2016					UNITED ARAB EMIRATES	John Hood, Sunil Kumar KC, David Mark Wallace, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Chi Ching Mak, Venkataiah Bolli, Brian Eastman	ABANDONED
29124-0050AU1	SMI.028-AU	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	3/20/2015	2015230989					AUSTRALIA	John Hood, Sunil Kumar KC, David Mark Wallace, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Chi Ching Mak, Venkataiah Bolli, Brian Eastman	ABANDONED
29124-0050BR1	SMI.028-BR	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	3/20/2015	BR1120160216261					BRAZIL	John Hood, Sunil Kumar KC, David Mark Wallace, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Chi Ching Mak, Venkataiah Bolli, Brian Eastman	PENDING
29124-0050CA1	SMI.028-CA	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	3/20/2015	2942887					CANADA	John Hood, Sunil Kumar KC, David Mark Wallace, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Chi Ching Mak, Venkataiah Bolli, Brian Eastman	ABANDONED
29124-0050CL1	SMI.028-CL	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	3/20/2015	02384-2016	6/23/2017				CHILE	John Hood, Sunil Kumar KC, David Mark Wallace, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Chi Ching Mak, Venkataiah Bolli, Brian Eastman	PENDING/DROP
29124-0050CN1	SMI.028-CN	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	3/20/2015	201560026082.X	3/22/2017	CN 106535890 A			CHINA	John Hood, Sunil Kumar KC, David Mark Wallace, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Chi Ching Mak, Venkataiah Bolli, Brian Eastman	ABANDONED
29124-0050CO1	SMI.028-CO	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	3/20/2015	NC2016/0003114	2/17/2017				COLOMBIA	John Hood, Sunil Kumar KC, David Mark Wallace, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Chi Ching Mak, Venkataiah Bolli, Brian Eastman	ABANDONED
29124-0050EG1	SMI.028-EG	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	3/20/2015	1528/2016					EGYPT	John Hood, Sunil Kumar KC, David Mark Wallace, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Chi Ching Mak, Venkataiah Bolli, Brian Eastman	ABANDONED
29124-0050EP1	SMI.028-EP	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	3/20/2015	15765201.7	1/25/2017	3119393			EUROPEAN PATENT CONVENTION	John Hood, Sunil Kumar KC, David Mark Wallace, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Chi Ching Mak, Venkataiah Bolli, Brian Eastman	PUBLISHED
29124-0050ID1	SMI.028-ID	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	3/20/2015	P00 2016 07079	11/30/2017	2017172902			INDONESIA	John Hood, Sunil Kumar KC, David Mark Wallace, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Chi Ching Mak, Venkataiah Bolli, Brian Eastman	ABANDONED
29124-0050IL1	SMI.028-IL	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	3/20/2015	247713					ISRAEL	John Hood, Sunil Kumar KC, David Mark Wallace, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Chi Ching Mak, Venkataiah Bolli, Brian Eastman	ABANDONED
29124-0050IN1	SMI.028-IN	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	3/20/2015	201647035691	11/25/2016	201647035691 A			INDIA	John Hood, Sunil Kumar KC, David Mark Wallace, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Chi Ching Mak, Venkataiah Bolli, Brian Eastman	ABANDONED

29124-0050JP1	SMI.026-JP	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	3/20/2015	2016-558073	3/30/2017	2017-508753	9/13/2019	6586104	JAPAN	SAMUMED, LLC	ISSUED
29124-0050KR1	SMI.026-KR	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	3/20/2015	10-2016-7028641					SOUTH KOREA	SAMUMED, LLC	ABANDONED
29124-0050KZ1	SMI.026-KZ	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	3/20/2015	2016/0921.1			6/6/2018	32984	KAZAKHISTAN	SAMUMED, LLC	ISSUED
29124-0050MA1	SMI.026MA	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF							MOROCCO	SAMUMED, LLC	CLOSED
29124-0050MX1	SMI.026-MX	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	3/20/2015	MX/a/2019/012208	2/13/2017				MEXICO	SAMUMED, LLC	ABANDONED
29124-0050MY1	SMI.026-MY	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	3/20/2015	P12016001896					MALAYSIA	SAMUMED, LLC	ABANDONED
29124-0050NZ1	SMI.026-NZ	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	3/20/2015	724380					NEW ZEALAND	SAMUMED, LLC	PEND/DROP
29124-0050PE1	SMI.026-PE	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	3/20/2014	619668.350					UNITED STATES	Assignor: John Hood, Sunil Kumar KC, David Mark Wallace, Gopi Kumar Mittapalli, Brian Joseph Hollena Assignee: SAMUMED, LLC Res/Frame: 0333117/0958 Recorded: 07/15/2014	EXPIRED
29124-0050PH1	SMI.026-PH	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	3/20/2015	001656-2016/DIN	3/30/2017	001656-2016/DIN			PERU	SAMUMED, LLC	PEND/DROP
29124-0050RU1	SMI.026-RU	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	3/20/2015	1-2016-501835					PHILIPPINES	SAMUMED, LLC	PEND/DROP
29124-0050SG1	SMI.026-SG	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	3/20/2015	2016/141088					RUSSIAN FEDERATION	SAMUMED, LLC	ABANDONED
29124-0050SG2	SMI.026-SG-DIV	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	3/20/2015	11201607816U					SINGAPORE	SAMUMED, LLC	ABANDONED
29124-0050TH1	SMI.026-TH	5-SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	3/20/2015	10201914111X					SINGAPORE	SAMUMED, LLC	PEND/DROP
			3/20/2015	1801005463					THAILAND	SAMUMED, LLC	ABANDONED

29124-0050W01	SMI.028PCT	3/20/2015	PCTUS2015/021847	9/24/2015	WO 2015/143380	WIPO	NAT PHASE
29124-0050Z01	SMI.028-ZA	3/20/2015	2016/08455			SOUTH AFRICA	ABANDONED
29124-0057001	SMI.027	9/8/2015	14/847,259	3/17/2016	US-2016-0075701-A1	UNITED STATES	ISSUED
29124-0057002	SMI.027-CON	10/20/2016	15/298,346	9/14/2017	US-2017-0260179-A1	UNITED STATES	ISSUED
29124-0057003	SMI.027-CON2	9/27/2017	15/716,803	8/2/2018	US-2018-0215753-A1	UNITED STATES	ISSUED
29124-0057P01	SMI.027-FR	9/6/2014	62/047,324			UNITED STATES	EXPIRED
29124-0057W01	SMI.027PCT	9/4/2015	PCTUS2015/048668	3/17/2016	WO 2016/040182	WIPO	ABANDONED
29124-0058001	SMI.028NP	9/6/2015	14/847,336	3/31/2016	US-2016-0090380-A1	UNITED STATES	ISSUED
29124-0058002	SMI.028CON	7/27/2017	15/861,231	5/31/2018	US-2018-0148444-A1	UNITED STATES	ISSUED
29124-0058003	SMI.028CON2	9/22/2018	18/015,988	2/21/2019	US-2019-0055238-A1	UNITED STATES	ISSUED
29124-0058P01	SMI.028-FR	9/6/2014	62/047,401			UNITED STATES	EXPIRED
29124-0058W01	SMI.028PCT	9/4/2015	PCTUS2015/048663	3/17/2016	WO 2016/040185	WIPO	ABANDONED
29124-0059001	SMI.029	9/6/2015	14/847,299	3/10/2016	US-2016-0088529-A1	UNITED STATES	ISSUED

Assignor: John Hood, Sunil Kumar KC, David Mark Wallace, Gopi Mittapalli, Brian Joseph Hofflens, Chi Ching Mak, Venkataiah Bollu, Brian Eastman
Assignee: SAMUMED, LLC
Resel/Frame: 051984 / 0050
Recorded: 02/28/2020
SAMUMED, LLC

Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood
Assignee: SAMUMED, LLC
Resel/Frame: 036677 / 0556
Recorded: 09/29/2015

Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood
Assignee: SAMUMED, LLC
Resel/Frame: 040288 / 0923
Recorded: 11/11/2016

Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood
Assignee: SAMUMED, LLC
Resel/Frame: 046133 / 0308
Recorded: 09/19/2018

Assignor: John Hood, Sunil Kumar KC, David Mark Wallace
Assignee: SAMUMED, LLC
Resel/Frame: 033818 / 0678
Recorded: 09/25/2014
None recorded

Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood
Assignee: SAMUMED, LLC
Resel/Frame: 039677 / 0191
Recorded: 09/29/2015

Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood
Assignee: SAMUMED, LLC
Resel/Frame: 043189 / 0079
Recorded: 06/03/2017

Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood
Assignee: SAMUMED, LLC
Resel/Frame: 048565 / 0770
Recorded: 03/11/2019

Assignor: John Hood, Sunil Kumar KC, David Mark Wallace
Assignee: SAMUMED, LLC
Resel/Frame: 033630 / 0088
Recorded: 09/25/2014
None recorded

Assignor: John Hood, Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta
Assignee: SAMUMED, LLC
Resel/Frame: 036690 / 0431
Recorded: 09/30/2015

Corrective Assignment
Assignor: John Hood, Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta
Assignee: SAMUMED, LLC
Resel/Frame: 036699 / 0512
Recorded: 10/20/2015

29124-0059002	SMI.029-CON	3-(1H-BENZODIIMIDAZOL-2-YL)-1H-PYRAZOL[3,4-C]PYRIDINE AND THERAPEUTIC USES THEREOF	5/10/2017	15,591,566	3/29/2018	US-2018-0688754-A1	2/12/2019	10,202,377	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 042472 / 0831 Recorded: 05/23/2017 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 043487 / 0899 Recorded: 06/17/2019 Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: SAMUMED, LLC Res/Frame: 033818 / 0447 Recorded: 09/25/2014 None recorded	ISSUED
29124-0059003	SMI.029-CON2	3-(1H-BENZODIIMIDAZOL-2-YL)-1H-PYRAZOL[3,4-C]PYRIDINE AND THERAPEUTIC USES THEREOF	12/16/2018	18,224,160	4/25/2019	US-2019-0119276-A1			UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 043487 / 0899 Recorded: 06/17/2019 Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: SAMUMED, LLC Res/Frame: 033818 / 0447 Recorded: 09/25/2014 None recorded	ABANDONED
29124-0059P01	SMI.029-FR	3-(1H-BENZODIIMIDAZOL-2-YL)-1H-PYRAZOL[3,4-C]PYRIDINE AND THERAPEUTIC USES THEREOF	9/6/2014	62,047,509	3/17/2016	WO 2016/040180			WIPO	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 033818 / 0447 Recorded: 09/25/2014 None recorded	EXPIRED
29124-0059W01	SMI.029PCT	3-(1H-BENZODIIMIDAZOL-2-YL)-1H-PYRAZOL[3,4-C]PYRIDINE AND THERAPEUTIC USES THEREOF	9/4/2015	PCTUS2015/048660	3/17/2016	WO 2016/040180			WIPO	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 033818 / 0447 Recorded: 09/25/2014 None recorded	ABANDONED
29124-0060001	SMI.030NP	3-(1H-IMIDAZO[4,5-C]PYRIDIN-2-YL)-1H-PYRAZOL[3,4-C]PYRIDINE AND THERAPEUTIC USES THEREOF	9/6/2015	14,647,287	3/10/2016	US-2016-0666547-A1	1/10/2017	9,540,398	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 038700 / 0533 Recorded: 10/01/2015 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 040728 / 0294 Recorded: 12/13/2016	ISSUED
29124-0060002	SMI.030-CON	3-(1H-IMIDAZO[4,5-C]PYRIDIN-2-YL)-1H-PYRAZOL[3,4-C]PYRIDINE AND THERAPEUTIC USES THEREOF	11/29/2016	15,983,068	9/21/2017	US-2017-0267897-A1	12/19/2017	9,844,538	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 049735 / 0989 Recorded: 07/12/2019 Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: SAMUMED, LLC Res/Frame: 033837 / 0388 Recorded: 09/29/2014 None recorded	ISSUED
29124-0060003	SMI.030-CON2	3-(1H-IMIDAZO[4,5-C]PYRIDIN-2-YL)-1H-PYRAZOL[3,4-C]PYRIDINE AND THERAPEUTIC USES THEREOF	11/9/2017	15,008,602	9/6/2018	US-2018-0250289-A1	3/24/2020	10,596,154	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 049735 / 0989 Recorded: 07/12/2019 Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: SAMUMED, LLC Res/Frame: 033837 / 0388 Recorded: 09/29/2014 None recorded	ISSUED
29124-0060P01	SMI.030-FR	3-(1H-IMIDAZO[4,5-C]PYRIDIN-2-YL)-1H-PYRAZOL[3,4-C]PYRIDINE AND THERAPEUTIC USES THEREOF	9/6/2014	62,047,395	3/17/2016	WO 2016/040181			WIPO	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 033837 / 0388 Recorded: 09/29/2014 None recorded	EXPIRED
29124-0060W01	SMI.030PCT	3-(1H-IMIDAZO[4,5-C]PYRIDIN-2-YL)-1H-PYRAZOL[3,4-C]PYRIDINE AND THERAPEUTIC USES THEREOF	9/4/2015	PCTUS2015/048663	3/17/2016	WO 2016/040181			WIPO	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 033837 / 0388 Recorded: 09/29/2014 None recorded	ABANDONED
29124-0061001	SMI.031	3-(8H-IMIDAZO[4,5-C]PYRIDIN-2-YL)-1H-PYRAZOL[3,4-C]PYRIDINE AND THERAPEUTIC USES THEREOF	9/6/2015	14,647,344	3/10/2016	US-2016-0666546-A1	10/25/2016	9,475,825	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 038709 / 0927 Recorded: 10/02/2015 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 039654 / 0328 Recorded: 09/27/2016 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 043622 / 0280 Recorded: 10/10/2017 Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: SAMUMED, LLC Res/Frame: 033837 / 0456 Recorded: 09/29/2014 None recorded	ISSUED
29124-0061002	SMI.031-CON	3-(8H-IMIDAZO[4,5-C]PYRIDIN-2-YL)-1H-PYRAZOL[3,4-C]PYRIDINE AND THERAPEUTIC USES THEREOF	9/6/2016	15,257,398	8/3/2017	US-2017-0218296-A1	9/19/2017	9,763,951	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 039654 / 0328 Recorded: 09/27/2016 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 043622 / 0280 Recorded: 10/10/2017 Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: SAMUMED, LLC Res/Frame: 033837 / 0456 Recorded: 09/29/2014 None recorded	ISSUED
29124-0061003	SMI.031-CON2	3-(8H-IMIDAZO[4,5-C]PYRIDIN-2-YL)-1H-PYRAZOL[3,4-C]PYRIDINE AND THERAPEUTIC USES THEREOF	8/10/2017	15,879,834	6/28/2018	US-2018-0177787-A1	8/21/2018	10,052,331	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 043622 / 0280 Recorded: 10/10/2017 Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: SAMUMED, LLC Res/Frame: 033837 / 0456 Recorded: 09/29/2014 None recorded	ISSUED
29124-0061P01	SMI.031-FR	3-(8H-IMIDAZO[4,5-C]PYRIDIN-2-YL)-1H-PYRAZOL[3,4-C]PYRIDINE AND THERAPEUTIC USES THEREOF	9/6/2014	62,047,438	3/17/2016	WO 2016/040188			WIPO	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 033837 / 0456 Recorded: 09/29/2014 None recorded	EXPIRED
29124-0061W01	SMI.031PCT	3-(8H-IMIDAZO[4,5-C]PYRIDIN-2-YL)-1H-PYRAZOL[3,4-C]PYRIDINE AND THERAPEUTIC USES THEREOF	9/4/2015	PCTUS2015/048669	3/17/2016	WO 2016/040188			WIPO	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 033837 / 0456 Recorded: 09/29/2014 None recorded	ABANDONED

29124-0062001	SMI.032	3-(3H-IMIDAZO[4,5-B]PYRIDIN-2-YL)-1H-PYRAZOLO[3,4-C]PYRIDINE AND THERAPEUTIC USES THEREOF	9/6/2015	14,647,394	3/10/2016	US-2016-068651-A1	1/17/2017	9,546,185	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Reel/Frame: 035710 / 0280 Recorded: 10/02/2015 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Reel/Frame: 040605 / 0135 Recorded: 12/08/2016	ISSUED
29124-0062002	SMI.032-CON	3-(3H-IMIDAZO[4,5-B]PYRIDIN-2-YL)-1H-PYRAZOLO[3,4-C]PYRIDINE AND THERAPEUTIC USES THEREOF	11/21/2016	15,937,464	9/14/2017	US-2017-0260209-A1	11/14/2017	9,815,654	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Reel/Frame: 040728 / 0121 Recorded: 12/13/2016	ISSUED
29124-0062003	SMI.032-CON2	3-(3H-IMIDAZO[4,5-B]PYRIDIN-2-YL)-1H-PYRAZOLO[3,4-C]PYRIDINE AND THERAPEUTIC USES THEREOF	9/27/2017	15,719,894	7/19/2018	US-2018-0201824-A1	1/14/2020	10,533,020	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Reel/Frame: 049739 / 0553 Recorded: 07/12/2019 Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: SAMUMED, LLC Reel/Frame: 033618 / 0546 Recorded: 09/25/2014 None recorded	ISSUED
29124-0062P01	SMI.032-PR	3-(3H-imidazo[4,5-b]pyridin-2-yl)-1H-pyrazolo[3,4-c]pyridine and therapeutic uses thereof	9/6/2014	62,047,371		WO 2016/040184			WIPO		EXPIRED
29124-0062W01	SMI.032PCT	3-(3H-IMIDAZO[4,5-B]PYRIDIN-2-YL)-1H-PYRAZOLO[3,4-C]PYRIDINE AND THERAPEUTIC USES THEREOF	9/4/2015	PCTUS2015/048660	3/17/2016						ABANDONED
29124-0063001	SMI.033	3-(1H-IMIDAZO[4,5-C]PYRIDIN-2-YL)-1H-PYRAZOLO[3,4-B]PYRIDINE AND THERAPEUTIC USES THEREOF	9/6/2015	14,647,371	3/10/2016	US-2016-0686549-A1	11/15/2016	9,493,487	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Reel/Frame: 035710 / 0575 Recorded: 10/02/2015 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Reel/Frame: 039654 / 0214 Recorded: 10/06/2016	ISSUED
29124-0063002	SMI.033-CON	3-(1H-IMIDAZO[4,5-C]PYRIDIN-2-YL)-1H-PYRAZOLO[3,4-B]PYRIDINE AND THERAPEUTIC USES THEREOF	9/16/2016	15,267,959	8/10/2017	US-2017-0224697-A1	2/13/2018	9,889,140	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Reel/Frame: 042164 / 0026 Recorded: 04/27/2017 Recorded: 09/05/2018	ISSUED
29124-0063003	SMI.033-CON2	3-(1H-IMIDAZO[4,5-C]PYRIDIN-2-YL)-1H-PYRAZOLO[3,4-B]PYRIDINE AND THERAPEUTIC USES THEREOF	12/15/2017	15,643,818	11/15/2018	US-2018-0225910-A1	2/19/2019	10,206,929	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Reel/Frame: 048605 / 0098 Recorded: 09/05/2018 Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: SAMUMED, LLC Reel/Frame: 033629 / 0382 Recorded: 09/25/2014	ISSUED
29124-0063P01	SMI.033-PR	3-(1H-imidazo[4,5-c]pyridin-2-yl)-1H-pyrazolo[3,4-b]pyridine and therapeutic uses thereof	9/6/2014	62,047,406							EXPIRED
29124-0063W01	SMI.033PCT	3-(1H-IMIDAZO[4,5-C]PYRIDIN-2-YL)-1H-PYRAZOLO[3,4-B]PYRIDINE AND THERAPEUTIC USES THEREOF	9/4/2015	PCTUS2015/046709	3/17/2016	WO 2016/040183					ABANDONED
29124-0064001	SMI.034	3-(6H-IMIDAZO[4,5-B]PYRIDIN-2-YL)-1H-PYRAZOLO[3,4-B]PYRIDINE AND THERAPEUTIC USES THEREOF	9/6/2015	14,647,379	3/10/2016	US-2016-0686550-A1	9/12/2017	9,758,551	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Reel/Frame: 041505 / 0981 Recorded: 09/06/2017 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Reel/Frame: 035710 / 0941 Recorded: 10/02/2015	ISSUED
29124-0064002	SMI.034-CON	3-(6H-IMIDAZO[4,5-B]PYRIDIN-2-YL)-1H-PYRAZOLO[3,4-B]PYRIDINE AND THERAPEUTIC USES THEREOF	8/4/2017	15,668,992	5/24/2018	US-2018-0141963-A1	11/20/2018	10,131,677	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Reel/Frame: 045117 / 0286 Recorded: 05/06/2018	ISSUED

29124-0064003	SMI.034CON2	3-(3-HIMDAZO[4,5-B]PYRIDIN-2-YL)-1H-PYRZOLQ[3,4-B]PYRIDINE AND THERAPEUTIC USES THEREOF	10/16/2018	18/162,155	4/25/2019	US-2019-01193003-A1	17/2020	10,526,347	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Reel/Frame: 043488 / 0212 Recorded: 06/17/2019 Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: SAMUMED, LLC Reel/Frame: 033829 / 0272 Recorded: 09/28/2014 Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: SAMUMED, LLC Reel/Frame: 034142 / 0508 Recorded: 11/11/2014 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Reel/Frame: 041505 / 0451 Recorded: 03/08/2017 Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 038522 / 0289 Recorded: 09/09/2015 Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 048799 / 0440 Recorded: 04/04/2019 Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0713 Recorded: 06/09/2019 SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood	ISSUED
29124-0064P01	SMI.034-PR	3-(3-HIMDAZO[4,5-B]PYRIDIN-2-YL)-1H-PYRZOLQ[3,4-B]PYRIDINE AND THERAPEUTIC USES THEREOF	9/8/2014	62/047,575					UNITED STATES	Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: SAMUMED, LLC Reel/Frame: 033829 / 0272 Recorded: 09/28/2014 Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: SAMUMED, LLC Reel/Frame: 034142 / 0508 Recorded: 11/11/2014 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Reel/Frame: 041505 / 0451 Recorded: 03/08/2017 Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 038522 / 0289 Recorded: 09/09/2015 Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 048799 / 0440 Recorded: 04/04/2019 Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0713 Recorded: 06/09/2019 SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	EXPIRED
29124-0064P02	SMI.034-PR-2	3-(3-HIMDAZO[4,5-B]PYRIDIN-2-YL)-1H-PYRZOLQ[3,4-B]PYRIDINE AND THERAPEUTIC USES THEREOF	9/17/2014	62/051,567					UNITED STATES	Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: SAMUMED, LLC Reel/Frame: 033829 / 0272 Recorded: 09/28/2014 Assignor: John Hood, Sunil Kumar KC, David Mark Wallace Assignee: SAMUMED, LLC Reel/Frame: 034142 / 0508 Recorded: 11/11/2014 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Reel/Frame: 041505 / 0451 Recorded: 03/08/2017 Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 038522 / 0289 Recorded: 09/09/2015 Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 048799 / 0440 Recorded: 04/04/2019 Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0713 Recorded: 06/09/2019 SAMUMED, LLC	John Hood, Sunil Kumar KC, David Mark Wallace	EXPIRED
29124-0064W01	SMI.034PCT	3-(3-HIMDAZO[4,5-B]PYRIDIN-2-YL)-1H-PYRZOLQ[3,4-B]PYRIDINE AND THERAPEUTIC USES THEREOF	9/4/2015	PCTUS2015/048705	3/17/2016	WO 2016/040180			WIPO	Assignor: John Hood, Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Reel/Frame: 041505 / 0451 Recorded: 03/08/2017 Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 038522 / 0289 Recorded: 09/09/2015 Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 048799 / 0440 Recorded: 04/04/2019 Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0713 Recorded: 06/09/2019 SAMUMED, LLC	Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood	ABANDONED
29124-0065001	SMA.035	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	14/631,456	7/21/2016	US-2016-0206540-A1	10/24/2017	9,795,550	UNITED STATES	Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 038522 / 0289 Recorded: 09/09/2015 Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 048799 / 0440 Recorded: 04/04/2019 Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0713 Recorded: 06/09/2019 SAMUMED, LLC	John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga	ISSUED
29124-0065002	SMA.035-DIV	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	9/19/2017	15/706,908	7/12/2018	US-2018-0193244-A1	10/8/2019	10,434,052	UNITED STATES	Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 048799 / 0440 Recorded: 04/04/2019 Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0713 Recorded: 06/09/2019 SAMUMED, LLC	John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga	ISSUED
29124-0065003	SMA.035-DIV	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/7/2019	16/534,455	7/19/2020	US-2020-0222295-A1			UNITED STATES	Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0713 Recorded: 06/09/2019 SAMUMED, LLC	John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga	ISSUED
29124-0065A1	SMA.035-AL	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	ALBANIA	Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0713 Recorded: 06/09/2019 SAMUMED, LLC	John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga	ISSUED
29124-0065A11	SMA.035-AT	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	AUSTRIA	Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0713 Recorded: 06/09/2019 SAMUMED, LLC	John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga	ISSUED
29124-0065AU1	SMA.035-AU	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	2015305373			10/9/2019	3206686	AUSTRALIA	Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0713 Recorded: 06/09/2019 SAMUMED, LLC	John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga	ALLOWED
29124-0065BA1	SMA.035-BA	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	BOSNIA AND HERZEGOVINA	Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0713 Recorded: 06/09/2019 SAMUMED, LLC	John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga	ISSUED
29124-0065BE1	SMA.035-BE	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	BELGIUM	Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0713 Recorded: 06/09/2019 SAMUMED, LLC	John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga	ISSUED
29124-0065BG1	SMA.035-BG	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	BULGARIA	Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0713 Recorded: 06/09/2019 SAMUMED, LLC	John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga	ISSUED
29124-0065BR1	SMA.035-BR	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	BR 1120170039591	7/7/2020				BRAZIL	Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0713 Recorded: 06/09/2019 SAMUMED, LLC	John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga	PUBLISHED
29124-0065CA1	SMA.035-CA	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	2956580			10/9/2019	3206686	CANADA	Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0713 Recorded: 06/09/2019 SAMUMED, LLC	John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga	PENDING
29124-0065CH1	SMA.035-CH	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	SWITZERLAND	Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0713 Recorded: 06/09/2019 SAMUMED, LLC	John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga	ISSUED
29124-0065CL1	SMA.035-CL	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	00410-2017	10/30/2017				CHILE	Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0713 Recorded: 06/09/2019 SAMUMED, LLC	John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga	PUBLISHED
29124-0065CN1	SMA.035-CN	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	201560056841.7	8/29/2017	CN107106549A	6/16/2020	ZL201560056841.7	CHINA	Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0713 Recorded: 06/09/2019 SAMUMED, LLC	John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga	ISSUED
29124-0065CY1	SMA.035-CY	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	CYPRUS	Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0713 Recorded: 06/09/2019 SAMUMED, LLC	John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga	ISSUED
29124-0065CZ1	SMA.035-CZ	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	CZECH REPUBLIC	Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0713 Recorded: 06/09/2019 SAMUMED, LLC	John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga	ISSUED
29124-0065DE1	SMA.035-DE	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	GERMANY	Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0713 Recorded: 06/09/2019 SAMUMED, LLC	John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga	ISSUED
29124-0065DK1	SMA.035-DK	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	DENMARK	Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0713 Recorded: 06/09/2019 SAMUMED, LLC	John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga	ISSUED
29124-0065EE1	SMA.035-EE	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	ESTONIA	Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0713 Recorded: 06/09/2019 SAMUMED, LLC	John Hood, Sunil Kumar KC, Osman Kibar, Charlene F. Barroga	ISSUED

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29124-0065EP1	SMA.035-EP	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2	8/23/2017	3206686	10/9/2019	3206686	EUROPEAN PATENT CONVENTION	SAMUUMED, LLC	John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065ES1	SMA.035-ES	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	SPAIN	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065FI1	SMA.035-FI	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	FINLAND	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065FR1	SMA.035-FR	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	FRANCE	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065GB1	SMA.035-GB	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	UNITED KINGDOM	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065GR1	SMA.035-GR	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	GREECE	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065HK1	SMA.035-HK	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	17113534.7	5/18/2018	1240069	8/7/2020	1240069	HONG KONG	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065HR1	SMA.035-HR	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	CROATIA	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065HU1	SMA.035-HU	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	HUNGARY	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065ID1	SMA.035-ID	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	PID201701633	3/16/2018	2018/02575	10/16/2020	IDP000072133	INDONESIA	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065IE1	SMA.035-IE	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	IRELAND	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065IL1	SMA.035-IL	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	250663	9/30/2020		12/31/2020	250663	ISRAEL	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065IS1	SMA.035-IS	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	ICELAND	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065IT1	SMA.035-IT	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	ITALY	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065JP1	SMA.035-JP	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	2017-595968	9/7/2017	2017-525767	9/18/2020	6796047	JAPAN	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065KR1	SMA.035-KR	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	10-2017-7007464			10/7/2020	2165385	SOUTH KOREA	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065KZ1	SMA.035-KZ	GAMMA-DIKETONES FOR IMPROVING THE AESTHETIC APPEARANCE OF SKIN	8/20/2015	2017/0166.1			5/24/2019	33645	KAZAKHISTAN	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065LT1	SMA.035-LT	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	LITHUANIA	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065LU1	SMA.035-LU	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	LUXEMBOURG	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065LV1	SMA.035-LV	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	LATVIA	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065MA1	SMA.035-MA	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	MOROCCO	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065MC1	SMA.035-MC	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	MONACO	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065ME1	SMA.035-ME	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	P-2019-359	MONTENEGRO	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065MK1	SMA.035-MK	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	MACEDONIA	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065MT1	SMA.035-MT	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	MALTA	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065MX1	SMA.035-MX	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	MX/a/2017/002285	2/13/2018	MX/a/2017/002285	9/25/2019	366246	MEXICO	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065NL1	SMA.035-NL	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	NETHERLANDS	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED
29124-0065NO1	SMA.035-NO	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2			10/9/2019	3206686	NORWAY	SAMUUMED, LLC	Barroga John Hood, Sunil Kumar KC, Osman Kibar, Chatefene F.	ISSUED

29124-0065N21	SMA.035-NZ	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	799288						NEW ZEALAND	SAMUMED, LLC	John Hood, Sunil Kumar KC, Osman Kibar, Chafene F. Barroga	PENDING
29124-0065N22	SMA.035-NZ-DIV	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	767230						NEW ZEALAND	SAMUMED, LLC	John Hood, Sunil Kumar KC, Osman Kibar, Chafene F. Barroga	PENDING
29124-0065P01	SMA.035-PR	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2014	62039,766						UNITED STATES	Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Chafene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 033710 / 0380 Recorded: 09/10/2014 SAMUMED, LLC	John Hood, Sunil Kumar KC, Osman Kibar, Chafene F. Barroga	EXPIRED
29124-0065P11	SMA.035-PL	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2						POLAND	3206686	10/9/2019	ISSUED
29124-0065P11	SMA.035-PT	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2						PORTUGAL	3206686	10/9/2019	ISSUED
29124-0065R01	SMA.035-RO	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2						ROMANIA	3206686	10/9/2019	ISSUED
29124-0065RS1	SMA.035-RS	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2						SERBIA	3206686	10/9/2019	ISSUED
29124-0065RU1	SMA.035-RU	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	2017108750	9/23/2018	2017108750				RUSSIAN FEDERATION	2727039	7/17/2020	ISSUED
29124-0065SE1	SMA.035-SE	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2						SWEDEN	3206686	10/9/2019	ISSUED
29124-0065S11	SMA.035-SI	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2						SLOVENIA	3206686	10/9/2019	ISSUED
29124-0065SK1	SMA.035-SK	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2						SLOVAKIA	3206686	10/9/2019	ISSUED
29124-0065SM1	SMA.035-SM	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2						SAN MARINO	3206686	10/9/2019	ISSUED
29124-0065TR1	SMA.035-TR	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	15633863.2						TURKEY	TR20192047874	10/9/2019	ISSUED
29124-0065WO1	SMA.035	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	PCT/US2015/046120	2/25/2016	WO 2016/029021				WIPO	Assignor: John Hood, Sunil Kumar KC, Osman Kibar, Chafene F. Barroga Assignee: SAMUMED, LLC Reel/Frame: 051964 / 0186 Recorded: 02/28/2020 SAMUMED, LLC	John Hood, Sunil Kumar KC, Osman Kibar, Chafene F. Barroga	NAT PHASE
29124-0065ZA1	SMA.035-ZA	GAMMA-DIKETONES FOR TREATMENT AND PREVENTION OF AGING SKIN AND WRINKLES	8/20/2015	201701480						SOUTH AFRICA	3206686	10/9/2019	PENDING
29124-0067P01	SMA.036PR	INDA-ZOLE-3-CARBOXAMIDES AND THEIR USE AS WNT/BETA -CATENIN SIGNALING PATHWAY ACTIVATORS	10/9/2014	62061,762						UNITED STATES	Assignor: Sunil Kumar KC, Jiaung Cao, John Hood Assignee: SAMUMED, LLC Reel/Frame: 034016/0317	John Hood, Sunil Kumar KC, Osman Kibar, Chafene F. Barroga	ABANDONED
29124-0070002	SMI.037USCON	TREATMENT OF OSTEOARTHRITIS	12/11/2019	16/710,069	10/15/2020	US-2020-0225133-A1				UNITED STATES	10,682,860	1/5/2021	ISSUED
29124-0070003	SMI.037USCON2	TREATMENT OF OSTEOARTHRITIS	12/11/2020	17706,544						UNITED STATES	Recorded: 01/07/2020 Assignor: John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Swearengen, Luis A. Dellamary Assignee: SAMUMED, LLC Reel/Frame: 051435 / 0391	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Swearengen, Luis A. Dellamary	PENDING
29124-0070AU1	SMI.037AU	TREATMENT OF OSTEOARTHRITIS	11/7/2016	2016346639						AUSTRALIA	Recorded: 12/4/2020		PENDING
29124-0070BR1	SMI.037BR	TREATMENT OF OSTEOARTHRITIS	11/7/2016	BR1120160092525	8/4/2020					BRAZIL	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Swearengen, Luis A. Dellamary	PUBLISHED
29124-0070BR2	SMI.037BR DIV	TREATMENT OF OSTEOARTHRITIS	11/7/2016	BR122020243520						BRAZIL	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Swearengen, Luis A. Dellamary	PENDING

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29124-0070CA1	SMI.037CA	TREATMENT OF OSTEOARTHRITIS	11/7/2016	3004506		CANADA	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweeningen, LUIS A. DELLAMARY	PENDING
29124-0070CL1	SMI.037CL	POLYMORPH FORMS 2 TO 11 OF N-(5-(3-(7-(3-FLUOROPHENYL)-2,3-DIHYDRO-1H-IMIDAZO[4,5-C]PYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLBUTANAMIDE; COMPOSITION COMPRISING THEM; PHARMACEUTICAL COMPOSITION COMPRISING THEM; AND USE THEREOF IN THE TREATMENT OF OSTEOARTHRITIS	11/7/2016	01230-2018	10/12/2018	CHILE	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweeningen, LUIS A. DELLAMARY	PUBLISHED
29124-0070CN1	SMI.037CN	TREATMENT OF OSTEOARTHRITIS	11/7/2016	2018600780316	8/31/2018	CHINA	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweeningen, LUIS A. DELLAMARY	PUBLISHED
29124-0070EP1	SMI.037EP	TREATMENT OF OSTEOARTHRITIS	11/7/2016	18663183.6	9/12/2018	EUROPEAN PATENT CONVENTION	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweeningen, LUIS A. DELLAMARY	PUBLISHED
29124-0070HK1	SMI.037HK	TREATMENT OF OSTEOARTHRITIS	11/7/2016	18120638.2	12/20/2019	HONG KONG	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweeningen, LUIS A. DELLAMARY	PUBLISHED
29124-0070ID1	SMI.037ID	TREATMENT OF OSTEOARTHRITIS	11/7/2016	PID201803344	9/14/2018	INDONESIA	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweeningen, LUIS A. DELLAMARY	PUBLISHED
29124-0070IL1	SMI.037IL	TREATMENT OF OSTEOARTHRITIS	11/7/2016	289110		ISRAEL	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweeningen, LUIS A. DELLAMARY	PENDING
29124-0070JP1	SMI.037JP	TREATMENT OF OSTEOARTHRITIS	11/7/2016	2018-522974	12/20/2018	JAPAN	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweeningen, LUIS A. DELLAMARY	PUBLISHED
29124-0070KR1	SMI.037KR	TREATMENT OF OSTEOARTHRITIS	11/7/2016	10-2018-7015302		SOUTH KOREA	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweeningen, LUIS A. DELLAMARY	PENDING
29124-0070KZ1	SMI.037KZ	TREATMENT OF OSTEOARTHRITIS	11/7/2016	2018/0322.1	11/22/2019	KAZAKHSTAN	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweeningen, LUIS A. DELLAMARY	ISSUED
29124-0070MX1	SMI.037MX	TREATMENT OF OSTEOARTHRITIS	11/7/2016	MX/a/2018/0005896	12/18/2018	MEXICO	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweeningen, LUIS A. DELLAMARY	ALLOWED
29124-0070NZ1	SMI.037NZ	TREATMENT OF OSTEOARTHRITIS	11/7/2016	742200		NEW ZEALAND	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweeningen, LUIS A. DELLAMARY	PENDING
29124-0070PE1	SMI.037PR	TREATMENT OF OSTEOARTHRITIS	11/14/2014	82/080,052		UNITED STATES	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC, Christopher Sweeningen Assignee: SAMUMED, LLC ResilFrame: 0344250432 Recorded: 12/3/2014	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweeningen, LUIS A. DELLAMARY	ABANDONED
29124-0070PE2	SMI.037PR	TREATMENT OF OSTEOARTHRITIS	11/8/2015	82/252,332		UNITED STATES	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweeningen, LUIS A. DELLAMARY Assignee: SAMUMED, LLC ResilFrame: 039652 / 0386 Recorded: 09/07/2016	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweeningen, LUIS A. DELLAMARY	EXPIRED
29124-0070PE3	SMI.037-PR-3	TREATMENT OF OSTEOARTHRITIS	3/3/2018	82/203,188		UNITED STATES	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweeningen, LUIS A. DELLAMARY Assignee: SAMUMED, LLC ResilFrame: 039178 / 0470 Recorded: 07/18/2018	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweeningen, LUIS A. DELLAMARY	EXPIRED

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29124-0070PH	SML037PH	TREATMENT OF OSTEOARTHRITIS	11/7/2016	1-2016-500861					PHILIPPINES	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweeningen, LUIS A. DELLAMARY	PENDING
29124-0070RU	SML037RU	TREATMENT OF OSTEOARTHRITIS	11/7/2016	2016120728	12/9/2019				RUSSIAN FEDERATION	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweeningen, LUIS A. DELLAMARY	PUBLISHED
29124-0070US1	SML037US	TREATMENT OF OSTEOARTHRITIS	5/4/2018	15773951	4/18/2019	US-2019-0112304-A1	1/28/2020	10,544,139	UNITED STATES	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweeningen, LUIS A. Dellamary ReselFrame: 048624 / 0971 Recorded: 04/09/2019 Assignor: John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweeningen, LUIS A. Dellamary ReselFrame: 041505 / 0213 Recorded: 03/08/2017	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweeningen, LUIS A. DELLAMARY	ISSUED
29124-0070WO1	SML037PCT	TREATMENT OF OSTEOARTHRITIS	11/7/2016	PCTUS2016/060868	5/11/2017	WO 2017/079785			WIPO		John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweeningen, LUIS A. DELLAMARY	NAT PHASE
29124-0070ZA1	SML037ZA	TREATMENT OF OSTEOARTHRITIS	11/7/2016	2016/03009					SOUTH AFRICA		John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweeningen, LUIS A. DELLAMARY	PENDING
29124-0082P01	SML038PR	3-(H-INDOL-2-YL)-H-INDAZOLES AND THERAPEUTIC USES THEREOF	8/3/2015	62200,226					UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood Assignee: SAMUMED, LLC ReselFrame: 036408 / 0910 Recorded: 06/25/2015	Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood	EXPIRED
29124-0082US1	SML038US	3-(H-INDOL-2-YL)-H-INDAZOLES AND THERAPEUTIC USES THEREOF	2/1/2018	15749,587	8/9/2018	US-2018-022891-A1	3/31/2020	10,604,512	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC ReselFrame: 047121 / 0955 Recorded: 10/10/2018 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC ReselFrame: 039664 / 0278 Recorded: 09/07/2018	Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood	ISSUED
29124-0082WO1	SML038PCT	3-(H-INDOL-2-YL)-H-INDAZOLES AND THERAPEUTIC USES THEREOF	8/3/2016	PCTUS2016/045289	2/9/2017	WO 2017/023988			WIPO		Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood	NAT PHASE
29124-0083P01	SML039PR	3-(H-PYRROLO[3,2-C]PYRIDIN-2-YL)-H-INDAZOLES AND THERAPEUTIC USES THEREOF	8/3/2015	62200,190					UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood Assignee: SAMUMED, LLC ReselFrame: 039410 / 0401 Recorded: 06/25/2015	Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood	EXPIRED
29124-0083US1	SML039US	3-(H-PYRROLO[3,2-C]PYRIDIN-2-YL)-H-INDAZOLES AND THERAPEUTIC USES THEREOF	2/1/2018	15749,586	8/9/2018	US-2018-0221350-A1	11/5/2019	10,463,651	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC ReselFrame: 049600 / 0341 Recorded: 07/19/2019 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC ReselFrame: 039703 / 0502 Recorded: 09/12/2016 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood Assignee: SAMUMED, LLC ReselFrame: 038415 / 0247	Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood	ISSUED
29124-0083WO1	SML039PCT	3-(H-PYRROLO[3,2-C]PYRIDIN-2-YL)-H-INDAZOLES AND THERAPEUTIC USES THEREOF	8/3/2016	PCTUS2016/045304	2/9/2017	WO 2017/024010			WIPO		Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood	NAT PHASE
29124-0084P01	SML040PR	3-(H-PYRROLO[3,2-C]PYRIDIN-2-YL)-H-INDAZOLES AND THERAPEUTIC USES THEREOF	8/3/2015	62200,229					UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC ReselFrame: 06252015	Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood	EXPIRED
29124-0084US1	SML040NP	3-(H-PYRROLO[3,2-C]PYRIDIN-2-YL)-H-INDAZOLES AND THERAPEUTIC USES THEREOF	2/1/2018	15749,592	8/16/2018	US-2018-0228780-A1			UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC ReselFrame: 047127 / 0192 Recorded: 10/10/2018	Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood	ABANDONED

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29124-0093WO1	SMI.048PCT	3-(1H-PYRROLO[2,3-B]PYRIDIN-2-YL)-1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	8/3/2016	PCTUS2016/045263	2/9/2017	WO 2017/023981	WO 2017/023981	WFO	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 039757 / 0642 Recorded: 09/15/2016	Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood	NAT PHASE
29124-0093FO1	SMI.049-PR	3-(1H-PYRROLO[2,3-B]PYRIDIN-2-YL)-1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	8/3/2015	62/200,301				UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 041503 / 0689 Recorded: 03/08/2017	Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood	EXPIRED
29124-0093FO2	SMI.046-PR-2	3-(1H-PYRROLO[2,3-B]PYRIDIN-2-YL)-1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	6/29/2016	62/556,133				UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood Assignee: SAMUMED, LLC Res/Frame: 039413/0352 Recorded: 6/25/2015	Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood	EXPIRED
29124-0093US1	SMI.049-US	3-(1H-PYRROLO[2,3-B]PYRIDIN-2-YL)-1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	2/1/2018	15/749,727	8/16/2018	US-2016-0228783-A1	10,285,983	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 039217/0451 Recorded: 7/22/2016	Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood	ISSUED
29124-0093WO1	SMI.049PCT	3-(1H-PYRROLO[2,3-B]PYRIDIN-2-YL)-1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	8/3/2016	PCTUS2016/045283	2/9/2017	WO 2017/023996	WO 2017/023996	WFO	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 041503 / 0502 Recorded: 11/15/2018	Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood	NAT PHASE
29124-0094FO1	SMI.050-PR	3-(1H-INDOL-2-YL)-1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	8/3/2015	62/500,195				UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood Assignee: SAMUMED, LLC Res/Frame: 038422/0723 Recorded: 03/08/2017	Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood	EXPIRED
29124-0094FO2	SMI.050-PR-2	3-(1H-INDOL-2-YL)-1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	6/29/2016	62/553,947				UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood Assignee: SAMUMED, LLC Res/Frame: 039217/0500 Recorded: 07/22/2016	Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood	EXPIRED
29124-0094US1	SMI.050NP	3-(1H-INDOL-2-YL)-1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	2/1/2018	15/749,739	8/16/2018	US-2016-0228784-A1	10,226,453	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 047519 / 0319 Recorded: 11/15/2018	Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood	ISSUED
29124-0094WO1	SMI.050 PCT	3-(1H-INDOL-2-YL)-1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	8/3/2016	PCTUS2016/045278	2/9/2017	WO 2017/023993	WO 2017/023993	WFO	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, John Hood Assignee: SAMUMED, LLC Res/Frame: 039754 / 0717 Recorded: 09/20/2016	Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta	NAT PHASE
29124-0095FO1	SMI.051-PR	3-(1H-PYRROLO[2,3-B]PYRIDIN-2-YL)-1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	8/3/2015	62/200,201				UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood Assignee: SAMUMED, LLC Res/Frame: 041503 / 0345 Recorded: 03/08/2017	Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood	EXPIRED
29124-0095FO2	SMI.051-PR-2	3-(1H-PYRROLO[2,3-B]PYRIDIN-2-YL)-1H-PYRAZOL[3,4-B]PYRIDINES AND THERAPEUTIC USES THEREOF	6/29/2016	62/354,000				UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood Assignee: SAMUMED, LLC Res/Frame: 039216/0624 Recorded: 7/22/2016	Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood	EXPIRED

29124-0095US1	SMI.051-US	3-(1H-PYRROLO[2,3-C]PYRIDIN-2-YL)-1H-PYRAZOL[4,3-B]PYRIDINES AND THERAPEUTIC USES THEREOF	2/1/2018	15,749,737	8/2/2018	US-2018-0214429-A1	3/19/2019	10,231,955	UNITED STATES	ISSUED
29124-0095WO1	SMI.051PCT	3-(1H-PYRROLO[2,3-C]PYRIDIN-2-YL)-1H-PYRAZOL[4,3-B]PYRIDINES AND THERAPEUTIC USES THEREOF	8/3/2016	PCTUS2016/045293	2/9/2017	WO 2017/024003			WIPO	NAT PHASE
29124-0098P01	SMI.052-PR	3-(1H-PYRROLO[2,3-C]PYRIDIN-2-YL)-1H-PYRAZOL[4,3-B]PYRIDINES AND THERAPEUTIC USES THEREOF	8/3/2015	62200,259					UNITED STATES	EXPIRED
29124-0098P02	SMI.052-PR-2	3-(1H-PYRROLO[2,3-C]PYRIDIN-2-YL)-1H-PYRAZOL[4,3-B]PYRIDINES AND THERAPEUTIC USES THEREOF	6/25/2016	62254,014					UNITED STATES	EXPIRED
29124-0098US1	SMI.052-US	3-(1H-PYRROLO[2,3-C]PYRIDIN-2-YL)-1H-PYRAZOL[4,3-B]PYRIDINES AND THERAPEUTIC USES THEREOF	2/1/2018	15,749,742	12/27/2018	US-2018-070989-A1	1/23/2019	10,519,169	UNITED STATES	ISSUED
29124-0098WO1	SMI.052PCT	3-(1H-PYRROLO[2,3-C]PYRIDIN-2-YL)-1H-PYRAZOL[4,3-B]PYRIDINES AND THERAPEUTIC USES THEREOF	8/3/2016	PCTUS2016/045332	2/9/2017	WO 2017/024025			WIPO	NAT PHASE
29124-0097P01	SMI.053-PR	3-(1H-PYRROLO[2,3-C]PYRIDIN-2-YL)-1H-PYRAZOL[4,3-B]PYRIDINES AND THERAPEUTIC USES THEREOF	8/3/2015	62500,275					UNITED STATES	EXPIRED
29124-0097P02	SMI.053-PR-2	3-(1H-PYRROLO[2,3-C]PYRIDIN-2-YL)-1H-PYRAZOL[4,3-B]PYRIDINES AND THERAPEUTIC USES THEREOF	6/25/2016	62534,021					UNITED STATES	EXPIRED
29124-0097US1	SMI.053-US	3-(1H-PYRROLO[2,3-C]PYRIDIN-2-YL)-1H-PYRAZOL[4,3-B]PYRIDINES AND THERAPEUTIC USES THEREOF	2/2/2018	15,749,888	8/16/2018	US-2018-0228785-A1	2/19/2019	10,206,909	UNITED STATES	ISSUED
29124-0097WO1	SMI.053 PCT	3-(1H-PYRROLO[2,3-C]PYRIDIN-2-YL)-1H-PYRAZOL[4,3-B]PYRIDINES AND THERAPEUTIC USES THEREOF	8/3/2016	PCTUS2016/045296	2/9/2017	WO 2017/024004			WIPO	NAT PHASE
29124-0098P01	SMI.054-PR	3-(1H-BENZODIIMIDAZOL-3-YL)-1H-PYRAZOL[4,3-B]PYRIDINES AND THERAPEUTIC USES THEREOF	8/3/2015	62200,492					UNITED STATES	EXPIRED

29124-0068P02	S.MI.054-PR-2	3-(1H-BENZOTRIMIDAZOL-2-YL)-1H-PYRAZOL(4,3-B)PYRIDINES AND THERAPEUTIC USES THEREOF	3/25/2016	62/213,506				10,392,363	8/27/2019	US-2016-0230142-A1	WO 2017/023989	WFO	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood, Joseph Timothy Marakovits, Chandramouli Chiruta Assignee: SAMUMED, LLC Reel/Frame: 039180/0399 Recorded: 7/18/2016 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, Joseph Timothy Marakovits, Venkataiah Bolu, John Hood Assignee: SAMUMED, LLC Reel/Frame: 047531 / 0429 Recorded: 11/16/2016 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, Joseph Timothy Marakovits, Venkataiah Bolu, John Hood Assignee: SAMUMED, LLC Reel/Frame: 039644 / 0927 Recorded: 09/23/2016	EXPIRED	
29124-0068U01	S.MI.054-JUS	3-(1H-BENZOTRIMIDAZOL-2-YL)-1H-PYRAZOL(4,3-B)PYRIDINES AND THERAPEUTIC USES THEREOF	2/2/2018	15/749,929	8/16/2018								UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, Joseph Timothy Marakovits, Venkataiah Bolu, John Hood Assignee: SAMUMED, LLC Reel/Frame: 039180/0399 Recorded: 7/18/2016 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, Joseph Timothy Marakovits, Venkataiah Bolu, John Hood Assignee: SAMUMED, LLC Reel/Frame: 047531 / 0429 Recorded: 11/16/2016 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, Joseph Timothy Marakovits, Venkataiah Bolu, John Hood Assignee: SAMUMED, LLC Reel/Frame: 039644 / 0927 Recorded: 09/23/2016	ISSUED	
29124-0068WO1	S.MI.054PCT	3-(1H-BENZOTRIMIDAZOL-2-YL)-1H-PYRAZOL(4,3-B)PYRIDINES AND THERAPEUTIC USES THEREOF	8/3/2016	PCTUS2016/045272	2/9/2017								WFO	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, Joseph Timothy Marakovits, Venkataiah Bolu, John Hood Assignee: SAMUMED, LLC Reel/Frame: 041501 / 0489 Recorded: 03/08/2017 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood Assignee: SAMUMED, LLC Reel/Frame: 039413/0030 Recorded: 8/25/2015 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood, Joseph Timothy Marakovits, Chandramouli Chiruta Assignee: SAMUMED, LLC Reel/Frame: 039178/0787 Recorded: 7/18/2016 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, Joseph Timothy Marakovits, Venkataiah Bolu, John Hood Assignee: SAMUMED, LLC Reel/Frame: 048872 / 0178 Recorded: 09/13/2018 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood, Chandramouli Chiruta, Joseph Timothy Marakovits, Venkataiah Bolu Assignee: SAMUMED, LLC Reel/Frame: 039645 / 0103 Recorded: 09/23/2016	EXPIRED
29124-0069P01	S.MI.055-PR	3-(1H-IMIDAZO(4,5-C)PYRIDIN-2-YL)-1H-PYRAZOL(4,3-B)PYRIDINES AND THERAPEUTIC USES THEREOF	8/3/2015	62/200,377	8/9/2018					US-2016-0221353-A1	WO 2017/023972	WFO	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, Joseph Timothy Marakovits, Venkataiah Bolu, John Hood Assignee: SAMUMED, LLC Reel/Frame: 048872 / 0178 Recorded: 09/13/2018 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood, Chandramouli Chiruta, Joseph Timothy Marakovits, Venkataiah Bolu Assignee: SAMUMED, LLC Reel/Frame: 039645 / 0103 Recorded: 09/23/2016	EXPIRED	
29124-0069P02	S.MI.055-PR-2	3-(1H-IMIDAZO(4,5-C)PYRIDIN-2-YL)-1H-PYRAZOL(4,3-B)PYRIDINES AND THERAPEUTIC USES THEREOF	3/25/2016	62/213,535									UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, Joseph Timothy Marakovits, Venkataiah Bolu, John Hood Assignee: SAMUMED, LLC Reel/Frame: 039178/0787 Recorded: 7/18/2016 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, Joseph Timothy Marakovits, Venkataiah Bolu, John Hood Assignee: SAMUMED, LLC Reel/Frame: 048872 / 0178 Recorded: 09/13/2018 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood, Chandramouli Chiruta, Joseph Timothy Marakovits, Venkataiah Bolu Assignee: SAMUMED, LLC Reel/Frame: 039645 / 0103 Recorded: 09/23/2016	EXPIRED	
29124-0069U01	S.MI.055-JUS	3-(1H-IMIDAZO(4,5-C)PYRIDIN-2-YL)-1H-PYRAZOL(4,3-B)PYRIDINES AND THERAPEUTIC USES THEREOF	2/2/2018	15/749,910	8/9/2018								UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, Joseph Timothy Marakovits, Venkataiah Bolu, John Hood Assignee: SAMUMED, LLC Reel/Frame: 039178/0787 Recorded: 7/18/2016 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, Joseph Timothy Marakovits, Venkataiah Bolu, John Hood Assignee: SAMUMED, LLC Reel/Frame: 048872 / 0178 Recorded: 09/13/2018 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood, Chandramouli Chiruta, Joseph Timothy Marakovits, Venkataiah Bolu Assignee: SAMUMED, LLC Reel/Frame: 039645 / 0103 Recorded: 09/23/2016	ISSUED	
29124-0069WO1	S.MI.055PCT	3-(1H-IMIDAZO(4,5-C)PYRIDIN-2-YL)-1H-PYRAZOL(4,3-B)PYRIDINES AND THERAPEUTIC USES THEREOF	8/3/2016	PCTUS2016/045251	2/9/2017								WFO	UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, Joseph Timothy Marakovits, Venkataiah Bolu, John Hood Assignee: SAMUMED, LLC Reel/Frame: 039178/0787 Recorded: 7/18/2016 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, Chandramouli Chiruta, Joseph Timothy Marakovits, Venkataiah Bolu, John Hood Assignee: SAMUMED, LLC Reel/Frame: 048872 / 0178 Recorded: 09/13/2018 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood, Chandramouli Chiruta, Joseph Timothy Marakovits, Venkataiah Bolu Assignee: SAMUMED, LLC Reel/Frame: 039645 / 0103 Recorded: 09/23/2016	EXPIRED
29124-0100P01	S.MI.056-PR	3-(8H-IMIDAZO(4,5-C)PYRIDIN-2-YL)-1H-PYRAZOL(4,3-B)PYRIDINES AND THERAPEUTIC USES THEREOF	8/3/2015	62/200,423									UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood, Chandramouli Chiruta, Joseph Timothy Marakovits, Venkataiah Bolu Assignee: SAMUMED, LLC Reel/Frame: 041501 / 0325 Recorded: 03/08/2017 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood Assignee: SAMUMED, LLC Reel/Frame: 039407 / 0748 Recorded: 08/25/2015 Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood, Chandramouli Chiruta, Joseph Timothy Marakovits, Venkataiah Bolu Assignee: SAMUMED, LLC Reel/Frame: 039179 / 0582 Recorded: 07/16/2016	EXPIRED	
29124-0100P02	S.MI.056-PR-2	3-(8H-IMIDAZO(4,5-C)PYRIDIN-2-YL)-1H-PYRAZOL(4,3-B)PYRIDINES AND THERAPEUTIC USES THEREOF	3/25/2016	62/213,568									UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Jianguo Cao, John Hood, Chandramouli Chiruta, Joseph Timothy Marakovits, Venkataiah Bolu Assignee: SAMUMED, LLC Reel/Frame: 039179 / 0582 Recorded: 07/16/2016	EXPIRED	

29124-0100U1	SMI.058-JS	3-(3H-IMIDAZO[4,5-C]PYRIDIN-2-YL)-1H-PYRAZOLO[4,3-B]PYRIDINES AND THERAPEUTIC USES THEREOF	2/2/2018	15/749,923	8/9/2018	US-2018-0221354-A1	1/29/2019	10,186,634	UNITED STATES	ISSUED
29124-0100W01	SMI.058 PCT	3-(3H-IMIDAZO[4,5-C]PYRIDIN-2-YL)-1H-PYRAZOLO[4,3-B]PYRIDINES AND THERAPEUTIC USES THEREOF	8/3/2016	PCT/US2016/045271	2/9/2017	WO 2017/023388			WIPO	NAT PHASE
29124-0101P01	SMI.057-PR	3-(3H-IMIDAZO[4,5-B]PYRIDIN-2-YL)-1H-PYRAZOLO[4,3-B]PYRIDINES AND THERAPEUTIC USES THEREOF	8/3/2015	622600,329					UNITED STATES	EXPIRED
29124-0101P02	SMI.057-PR-2	3-(3H-IMIDAZO[4,5-B]PYRIDIN-2-YL)-1H-PYRAZOLO[4,3-B]PYRIDINES AND THERAPEUTIC USES THEREOF	3/25/2016	62313,576					UNITED STATES	EXPIRED
29124-0101U01	SMI.057-JS	3-(3H-IMIDAZO[4,5-B]PYRIDIN-2-YL)-1H-PYRAZOLO[4,3-B]PYRIDINES AND THERAPEUTIC USES THEREOF	2/2/2018	15/749,922	8/9/2018	US-2018-0222923-A1	9/25/2019	10,329,309	UNITED STATES	ISSUED
29124-0101W01	SMI.057PCT	3-(3H-IMIDAZO[4,5-B]PYRIDIN-2-YL)-1H-PYRAZOLO[4,3-B]PYRIDINES AND THERAPEUTIC USES THEREOF	8/3/2018	PCT/US2018/045311	2/9/2017	WO 2017/024015			WIPO	NAT PHASE
29124-0104001	SMI.058	5-HETEROARYL SUBSTITUTED IMIDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/22/2019	16/283,388	8/29/2019	US-2019-0263821-A1	3/2/2021	10,934,297	UNITED STATES	ISSUED
29124-0104002	SMI.058CON	5-HETEROARYL SUBSTITUTED IMIDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	12/30/2020	17/138,098					UNITED STATES	PENDING
29124-01040E1	SMI.058 AE	5-HETEROARYL SUBSTITUTED IMIDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/22/2019	P6001200/20					UNITED ARAB EMIRATES	PENDING
29124-0104U01	SMI.058 AU	5-HETEROARYL SUBSTITUTED IMIDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/22/2019	2018224075					AUSTRALIA	PENDING

29124-0104BR1	SMI.058 BR	5-HETEROARYL SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/22/2019	BR1120200170679	12/22/2020		BRAZIL	SAMUMED, LLC	PUBLISHED	Sunil Kumar KC, Chi Ching Mak, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Brian Walker Eastman, Janguo Cao, Chandramouli Chintu, Venkataiah Bolla
29124-0104CA1	SMI.058 CA	5-HETEROARYL SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/22/2019	3091913			CANADA	SAMUMED, LLC	PENDING	Sunil Kumar KC, Chi Ching Mak, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Brian Walker Eastman, Janguo Cao, Chandramouli Chintu, Venkataiah Bolla
29124-0104CL1	SMI.058 CL	5-HETEROARYL SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/22/2019	02177-2020	1/8/2021		CHILE	SAMUMED, LLC	PUBLISHED	Sunil Kumar KC, Chi Ching Mak, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Brian Walker Eastman, Janguo Cao, Chandramouli Chintu, Venkataiah Bolla
29124-0104CN1	SMI.058 CN	5-HETEROARYL SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/22/2019	201866027314.1	12/1/2020	CN 112020501 A	CHINA	SAMUMED, LLC	PUBLISHED	Sunil Kumar KC, Chi Ching Mak, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Brian Walker Eastman, Janguo Cao, Chandramouli Chintu, Venkataiah Bolla
29124-0104CO1	SMI.058 CO	5-HETEROARYL SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/22/2019	NC20200011134	9/21/2020		COLOMBIA	SAMUMED, LLC	PUBLISHED	Sunil Kumar KC, Chi Ching Mak, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Brian Walker Eastman, Janguo Cao, Chandramouli Chintu, Venkataiah Bolla
29124-0104EA1	SMI.058 EA	5-HETEROARYL SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/22/2019	202092002	1/21/2021		EURASIA	SAMUMED, LLC	PUBLISHED	Sunil Kumar KC, Chi Ching Mak, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Brian Walker Eastman, Janguo Cao, Chandramouli Chintu, Venkataiah Bolla
29124-0104EP1	SMI.058 EP	5-HETEROARYL SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/22/2019	19711736.9	12/30/2020	3755696	EUROPEAN PATENT CONVENTION	SAMUMED, LLC	PUBLISHED	Sunil Kumar KC, Chi Ching Mak, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Brian Walker Eastman, Janguo Cao, Chandramouli Chintu, Venkataiah Bolla
29124-0104HK1	SMI.058 HK	5-HETEROARYL SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/22/2019	UNKNOWN			HONG KONG	SAMUMED, LLC	PENDING	Sunil Kumar KC, Chi Ching Mak, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Brian Walker Eastman, Janguo Cao, Chandramouli Chintu, Venkataiah Bolla
29124-0104ID1	SMI.058 ID	5-HETEROARYL SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/22/2019	P00202006282			INDONESIA	SAMUMED, LLC	PENDING	Sunil Kumar KC, Chi Ching Mak, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Brian Walker Eastman, Janguo Cao, Chandramouli Chintu, Venkataiah Bolla
29124-0104IL1	SMI.058 IL	5-HETEROARYL SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/22/2019	276614			ISRAEL	SAMUMED, LLC	PENDING	Sunil Kumar KC, Chi Ching Mak, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Brian Walker Eastman, Janguo Cao, Chandramouli Chintu, Venkataiah Bolla
29124-0104IN1	SMI.058 IN	5-HETEROARYL SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/22/2019	202077039164	10/2/2020		INDIA	SAMUMED, LLC	PUBLISHED	Sunil Kumar KC, Chi Ching Mak, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Brian Walker Eastman, Janguo Cao, Chandramouli Chintu, Venkataiah Bolla
29124-0104JP1	SMI.058 JP	5-HETEROARYL SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/22/2019	2020-544501			JAPAN	SAMUMED, LLC	PENDING	Sunil Kumar KC, Chi Ching Mak, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Brian Walker Eastman, Janguo Cao, Chandramouli Chintu, Venkataiah Bolla
29124-0104KR1	SMI.058 KR	5-HETEROARYL SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/22/2019	10-2020-7027174			SOUTH KOREA	SAMUMED, LLC	PENDING	Sunil Kumar KC, Chi Ching Mak, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Brian Walker Eastman, Janguo Cao, Chandramouli Chintu, Venkataiah Bolla
29124-0104MX1	SMI.058 MX	5-HETEROARYL SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/22/2019	MX/a/2020/008852	11/24/2020		MEXICO	SAMUMED, LLC	PUBLISHED	Sunil Kumar KC, Chi Ching Mak, Gopi Kumar Mittapalli, Brian Joseph Hofflens, Brian Walker Eastman, Janguo Cao, Chandramouli Chintu, Venkataiah Bolla

29124-0104MY1	S.M.058 MY	5-HETEROARYL SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/22/2019	PI2020004299			MALAYSIA	SAMUMED, LLC	PENDING
29124-0104NZ1	S.M.058 NZ	5-HETEROARYL SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/22/2019	767282			NEW ZEALAND	SAMUMED, LLC	PENDING
29124-0104P01	S.M.058 PR	5-HETEROARYL SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	10/22/2015	62245,014			UNITED STATES	Assignor: Sunil Kumar KC, Chi Ching Mak, Gopi Kumar Mittapalli, Brian Joseph Hofflana, Brian Walter Eastman, Janguo Cao, Chandramouli Chiruta, Venkataiah Bolu Assignee: SAMUMED, LLC Res/Frame: 037417/0910 Recorded: 1/6/2016	EXPIRED
29124-0104P02	S.M.058 PR2	5-HETEROARYL SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/23/2018	621634,655			UNITED STATES	Assignor: Sunil Kumar KC, Chi Ching Mak, Gopi Kumar Mittapalli, Brian Joseph Hofflana, Brian Walter Eastman, Janguo Cao, Chandramouli Chiruta, Venkataiah Bolu Assignee: SAMUMED, LLC Res/Frame: 045078 / 0351 Recorded: 03/01/2018	EXPIRED
29124-0104PE1	S.M.058 PE	5-HETEROARYL SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/22/2019	001271-2020			PERU	SAMUMED, LLC	PENDING
29124-0104PH1	S.M.058 PH	5-HETEROARYL SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/22/2019	1-2020-551300			PHILIPPINES	SAMUMED, LLC	PENDING
29124-0104SG1	S.M.058 SG	5-HETEROARYL SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/22/2019	11202008029U			SINGAPORE	SAMUMED, LLC	PENDING
29124-0104WO1	S.M.058 WO	5-HETEROARYL SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/22/2019	PCTUS2019/019129	8/29/2019	WO 2019/165192	WIPO	Assignor: Sunil Kumar KC, Chi Ching Mak, Gopi Kumar Mittapalli, Brian Joseph Hofflana, Brian Walter Eastman, Janguo Cao, Chandramouli Chiruta, Venkataiah Bolu Assignee: SAMUMED, LLC Res/Frame: 054785 / 0748 Recorded: 12/31/2020	NAT PHASE
29124-0104ZA1	S.M.058 ZA	5-HETEROARYL SUBSTITUTED INDAZOLE-3-CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/22/2019	2020/05195			SOUTH AFRICA	SAMUMED, LLC	PENDING
29124-0106P01	S.Ma.068 PR	TREATMENT REGIMENS AND COMPOSITIONS CONTAINING GAMMA-DIKETONES FOR MODULATING HAIR GROWTH	1/11/2016	62277,019			UNITED STATES	Assignor: Osman Kbar, Arman Yusuf Chuc, Yusuf Yazici, Christopher Sweening, Vishal Deshmukh Assignee: SAMUMED, LLC Res/Frame: 039155/0522 Recorded: 7/14/2016	ABANDONED
29124-0107P01	S.Ma.068 PR	COMBINATION TREATMENT REGIMENS AND COMPOSITIONS CONTAINING GAMMA-DIKETONES FOR MODULATING HAIR GROWTH	1/11/2016	62277,021			UNITED STATES	Assignor: Osman Kbar, Arman Yusuf Chuc, Yusuf Yazici, Christopher Sweening, Vishal Deshmukh Assignee: SAMUMED, LLC Res/Frame: 039149/0468 Recorded: 07/13/2016	ABANDONED
29124-0107P02	S.Ma.068 PR	COMBINATION TREATMENT REGIMENS AND COMPOSITIONS CONTAINING GAMMA-DIKETONES FOR MODULATING HAIR GROWTH	2/1/2016	62288,614			UNITED STATES	Assignor: Osman Kbar, Arman Yusuf Chuc, Yusuf Yazici, Christopher Sweening, Vishal Deshmukh Assignee: SAMUMED, LLC Res/Frame: 039149/0405 Recorded: 07/13/2016	ABANDONED

29124-0108CO1	SMI.061CO	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	NC2018/0012655	4/20/2019	NC2018/0012655	10/26/2020	37863	COLOMBIA	SAMUMIMED, LLC	ISSUED
29124-0108EG1	SMI.061EG	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	PCT 1678/2018					EGYPT	SAMUMIMED, LLC	PENDING
29124-0108EP1	SMI.061EP	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790411.7	3/6/2019	3448838			EUROPEAN PATENT CONVENTION	SAMUMIMED, LLC	PUBLISHED
29124-0108HK1	SMI.061HK	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	19126562.4	5/6/2020	40005208			HONG KONG	SAMUMIMED, LLC	PUBLISHED
29124-0108ID1	SMI.061ID	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	PID201808704	2/22/2019	2019/011420			INDONESIA	SAMUMIMED, LLC	PUBLISHED
29124-0108IL1	SMI.061IL	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	262495					ISRAEL	SAMUMIMED, LLC	PENDING
29124-0108IN1	SMI.061IN	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	2018177043030	1/4/2019	2018177043030A			INDIA	SAMUMIMED, LLC	PUBLISHED
29124-0108JP1	SMI.061JP	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	2018-559921	6/13/2019	2019-515931			JAPAN	SAMUMIMED, LLC	PUBLISHED
29124-0108KR1	SMI.061KR	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	10-2018-1034080					SOUTH KOREA	SAMUMIMED, LLC	PENDING
29124-0108KZ1	SMI.061KZ	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	2018/0868.1			9/20/2019	39908	KAZAKHISTAN	SAMUMIMED, LLC	ISSUED
29124-0108MA1	SMI.061MA	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	45605					MOROCCO	SAMUMIMED, LLC	PENDING
29124-0108MX1	SMI.061MX	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	MX/a/2016/013173	3/15/2019	MX/a/2016/013173A			MEXICO	SAMUMIMED, LLC	PUBLISHED
29124-0108MY1	SMI.061MY	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	PI 2018001773					MALAYSIA	SAMUMIMED, LLC	PENDING
29124-0108NZ1	SMI.061NZ	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	747581					NEW ZEALAND	SAMUMIMED, LLC	PENDING

29124-0108P01	SMI.061-FR	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2016	62,328,210			UNITED STATES	Assignor: Sunil Kumar KC, Gopi Kumar Mittapalli, Chi Ching Mak, Brian Joseph Hoffliena Assignee: SAMUMED, LLC Reel/Frame: 039217 / 0409 Recorded: 07/22/2016 SAMUMED, LLC	Expired
29124-0108PE1	SMI.061PE	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	002175-2016/DIN	2/25/2019	2019-0290	PERU		Published
29124-0108PH1	SMI.061PH	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	1-2016-502259			PHILIPPINES	SAMUMED, LLC	Pending
29124-0108RU1	SMI.061RU	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	2016141379	5/28/2020		RUSSIAN FEDERATION	SAMUMED, LLC	Published
29124-0108SG1	SMI.061SG	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	1120 809310P			SINGAPORE	SAMUMED, LLC	Pending
29124-0108SG2	SMI.061SG-DIV	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	10201914127P			SINGAPORE	SAMUMED, LLC	Pending
29124-0108TH1	SMI.061TH	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	1601006576			THAILAND	SAMUMED, LLC	Pending
29124-0108VN1	SMI.061VN	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	1-2016-05238	6/25/2019	63780	VIET NAM	SAMUMED, LLC	Published
29124-0108WO1	SMI.061PCT	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	PCTUS2017029797	11/2/2017	WO 2017/189823	WIPO	Assignor: Sunil Kumar KC, Gopi Kumar Mittapalli, Brian Joseph Hoffliena, Joseph Timothy Marakovits, Chandramouli Chiruta, Chi Ching Mak, Jiaunguo Cao Assignee: SAMUMED, LLC Reel/Frame: 042395 / 0105 Recorded: 05/16/2017 SAMUMED, LLC	NAT PHASE
29124-0108ZA1	SMI.061ZA	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	2016107307			SOUTH AFRICA	SAMUMED, LLC	Pending
29124-0109001	SMI.062	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	15469.013	11/2/2017	US-2017-0313662-A1	UNITED STATES	Assignor: Sunil Kumar KC, Chi Ching Mak, Gopi Kumar Mittapalli, Brian Joseph Hoffliena, Joseph Timothy Marakovits, Chandramouli Chiruta, Chi Ching Mak, Jiaunguo Cao Assignee: SAMUMED, LLC Reel/Frame: 042394 / 0128 Recorded: 05/16/2017	Issued
29124-0109002	SMI.062-CON	ISOCUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	12/6/2017	15633.917	4/5/2016	US-2016-0093970-A1	UNITED STATES	Assignor: Sunil Kumar KC, Chi Ching Mak, Gopi Kumar Mittapalli, Brian Joseph Hoffliena, Joseph Timothy Marakovits, Chandramouli Chiruta, Chi Ching Mak, Jiaunguo Cao Assignee: SAMUMED, LLC Reel/Frame: 044609 / 0394 Recorded: 02/13/2016	Issued

29124-0109003	SMI.062-CON2	ISOQUINOLIN-3-YL CARBOXYAMIDES AND PREPARATION AND USE THEREOF	1/30/2018	15/684,112	6/7/2018	US-2018-0155323-A1	10/16/2018	10,100,038	UNITED STATES	Assignor: Sunil Kumar KC, Chi Ching Mak, Gopi Kumar Mittapalli, Brian Walter Eastman, Jianguo Cao, Venkataiah Bolu, Chandramouli Chintu Assignee: SAMUMED, LLC Reel/Frame: 044909 / 0893 Recorded: 02/13/2018	ISSUED
29124-0109004	SMI.062-CON3	ISOQUINOLIN-3-YL CARBOXYAMIDES AND PREPARATION AND USE THEREOF	9/13/2018	16/130,842	8/1/2019	US-2019-0233396-A1	1/28/2020	10,544,128	UNITED STATES	Assignor: Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Jianguo Cao, Venkataiah Bolu, Gopi Kumar Mittapalli, Chandramouli Chintu Assignee: SAMUMED, LLC Reel/Frame: 047132 / 0118 Recorded: 10/11/2018	ISSUED
29124-0109005	SMI.062-CON4	ISOQUINOLIN-3-YL CARBOXYAMIDES AND PREPARATION AND USE THEREOF	12/4/2019	19/703,321	9/24/2020	US-2020-0299263-A1			UNITED STATES	Assignor: Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Jianguo Cao, Venkataiah Bolu, Gopi Kumar Mittapalli, Chandramouli Chintu Assignee: SAMUMED, LLC Reel/Frame: 051935 / 0754 Recorded: 02/26/2020	ALLOWED
29124-0109006	SMI.062-CON5	ISOQUINOLIN-3-YL CARBOXYAMIDES AND PREPARATION AND USE THEREOF	1/22/2021	17/155,577					UNITED STATES	Assignor: Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Jianguo Cao, Venkataiah Bolu, Gopi Kumar Mittapalli, Chandramouli Chintu Assignee: SAMUMED, LLC Reel/Frame: 055013/0686 Recorded: 1/25/2021	PENDING
29124-0109AE1	SMI.062AE	ISOQUINOLIN-3-YL CARBOXYAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	P6001480/2018					UNITED ARAB EMIRATES		PENDING
29124-0109AL1	SMI.062AL	ISOQUINOLIN-3-YL CARBOXYAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6			3/3/2021	3448386	ALBANIA	SAMUMED, LLC	ISSUED
29124-0109AR1	SMI.062AR	ISOQUINOLIN-3-YL CARBOXYAMIDES AND PREPARATION AND USE THEREOF	4/28/2017	20170101055	8/6/2018	P170101055A	3/3/2021	3448386	ARGENTINA	SAMUMED, LLC	PUBLISHED
29124-0109AT1	SMI.062AT	ISOQUINOLIN-3-YL CARBOXYAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6			3/3/2021	3448386	AUSTRIA	SAMUMED, LLC	ISSUED
29124-0109AU1	SMI.062AU	ISOQUINOLIN-3-YL CARBOXYAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	2017258193			3/3/2021	3448386	AUSTRALIA	SAMUMED, LLC	PENDING
29124-0109BA1	SMI.062BA	ISOQUINOLIN-3-YL CARBOXYAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6			3/3/2021	3448386	BOSNIA AND HERZEGOVINA	SAMUMED, LLC	ISSUED
29124-0109BE1	SMI.062BE	ISOQUINOLIN-3-YL CARBOXYAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6			3/3/2021	3448386	BELGIUM	SAMUMED, LLC	ISSUED
29124-0109BG1	SMI.062BG	ISOQUINOLIN-3-YL CARBOXYAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6			3/3/2021	3448386	BULGARIA	SAMUMED, LLC	ISSUED
29124-0109BR1	SMI.062BR	ISOQUINOLIN-3-YL CARBOXYAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	BR112018072169-7			3/3/2021	3448386	BRAZIL	SAMUMED, LLC	PENDING
29124-0109CA1	SMI.062CA	ISOQUINOLIN-3-YL CARBOXYAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	3022002					CANADA	SAMUMED, LLC	PENDING
29124-0109CH1	SMI.062CH	ISOQUINOLIN-3-YL CARBOXYAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6			3/3/2021	3448386	SWITZERLAND	SAMUMED, LLC	ISSUED

29124-0109CL1	SMI.062CL	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	03065-2018	2/1/2019	03065-2018A	CHILE	SAMUMED, LLC	PUBLISHED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappalli, Chandramouli Chintu
29124-0109CL2	SMI.062CL DIV	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	01343-2019	10/11/2019	01343-2019A	CHILE	SAMUMED, LLC	PUBLISHED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappalli, Chandramouli Chintu
29124-0109CN1	SMI.062CN	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	201760037225.6	2/5/2019	CN108310890A	CHINA	SAMUMED, LLC	PUBLISHED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappalli, Chandramouli Chintu
29124-0109CO1	SMI.062CO	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	NC2018/0012289	4/30/2019	NC2018/0012289	COLOMBIA	SAMUMED, LLC	ALLOWED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappalli, Chandramouli Chintu
29124-0109CY1	SMI.062CY	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6	17790416.6	3448386	CYPRUS	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappalli, Chandramouli Chintu
29124-0109CZ1	SMI.062CZ	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6	17790416.6	3448386	CZECH REPUBLIC	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappalli, Chandramouli Chintu
29124-0109DE1	SMI.062DE	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6	17790416.6	3448386	GERMANY	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappalli, Chandramouli Chintu
29124-0109DK1	SMI.062DK	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6	17790416.6	3448386	DENMARK	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappalli, Chandramouli Chintu
29124-0109EE1	SMI.062EE	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6	17790416.6	3448386	ESTONIA	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappalli, Chandramouli Chintu
29124-0109EG1	SMI.062EG	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	PCT 1679/2018	3/6/2019	3448386	EGYPT	SAMUMED, LLC	PENDING	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappalli, Chandramouli Chintu
29124-0109EP1	SMI.062EP	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6	17790416.6	3448386	EUROPEAN PATENT CONVENTION	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappalli, Chandramouli Chintu
29124-0109EP2	SMI.062EP2	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	UNKNOWN	UNKNOWN	3448386	EUROPEAN PATENT CONVENTION	SAMUMED, LLC	PENDING	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappalli, Chandramouli Chintu
29124-0109ES1	SMI.062ES	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6	17790416.6	3448386	SPAIN	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappalli, Chandramouli Chintu
29124-0109FI1	SMI.062FI	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6	17790416.6	3448386	FINLAND	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappalli, Chandramouli Chintu
29124-0109FR1	SMI.062FR	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6	17790416.6	3448386	FRANCE	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappalli, Chandramouli Chintu
29124-0109GB1	SMI.062GB	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6	17790416.6	3448386	UNITED KINGDOM	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappalli, Chandramouli Chintu
29124-0109GR1	SMI.062GR	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6	17790416.6	3448386	GREECE	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappalli, Chandramouli Chintu

29124-0109HK1	S.MI.0621K	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	19128583.2	5/6/2020	40005209		HONG KONG	SAMUMED, LLC	PUBLISHED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiapalli, Chandramouli Chintu
29124-0109HR1	S.MI.0621R	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6			3/3/2021	CROATIA	SAMUMED, LLC	ISSUED	3448386
29124-0109HU1	S.MI.0621U	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6			3/3/2021	HUNGARY	SAMUMED, LLC	ISSUED	3448386
29124-0109ID1	S.MI.0621D	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	PID201806699	3/29/2019	2019/02166		INDONESIA	SAMUMED, LLC	PUBLISHED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiapalli, Chandramouli Chintu
29124-0109IE1	S.MI.0621E	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6			3/3/2021	IRELAND	SAMUMED, LLC	ISSUED	3448386
29124-0109IL1	S.MI.0621L	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	262470				ISRAEL	SAMUMED, LLC	PENDING	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiapalli, Chandramouli Chintu
29124-0109IN1	S.MI.0621N	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	201817043240	6/7/2019	201817043240 A		INDIA	SAMUMED, LLC	PUBLISHED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiapalli, Chandramouli Chintu
29124-0109IS1	S.MI.0621S	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6			3/3/2021	ICELAND	SAMUMED, LLC	ISSUED	3448386
29124-0109IT1	S.MI.0621T	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6			3/3/2021	ITALY	SAMUMED, LLC	ISSUED	3448386
29124-0109JP1	S.MI.0621P	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	2018-559602	6/6/2019	2018-514938		JAPAN	SAMUMED, LLC	PUBLISHED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiapalli, Chandramouli Chintu
29124-0109KR1	S.MI.0621R	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	10-2018-7034064				SOUTH KOREA	SAMUMED, LLC	PENDING	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiapalli, Chandramouli Chintu
29124-0109KZ1	S.MI.0621Z	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	2018/0889.1			7/10/2020	KAZAKHISTAN	SAMUMED, LLC	ISSUED	34454
29124-0109LI1	S.MI.0621I	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6			3/3/2021	LIECHTENSTEIN	SAMUMED, LLC	ISSUED	3448386
29124-0109LT1	S.MI.0621T	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6			3/3/2021	LITHUANIA	SAMUMED, LLC	ISSUED	3448386
29124-0109LU1	S.MI.0621U	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6			3/3/2021	LUXEMBOURG	SAMUMED, LLC	ISSUED	3448386
29124-0109LV1	S.MI.0621V	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6			3/3/2021	LATVIA	SAMUMED, LLC	ISSUED	3448386
29124-0109MA1	S.MI.0621MA	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	43619				MOROCCO	SAMUMED, LLC	PENDING	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiapalli, Chandramouli Chintu

29124-0109MC1	SMI.062MC	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6		3/9/2021	3448386	MONACO	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mittapalli, Chandramouli Chintu
29124-0109MD1	SMI.062MD	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6				MOLDOVA, REPUBLIC OF	SAMUMED, LLC	PENDING	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mittapalli, Chandramouli Chintu
29124-0109ME1	SMI.062ME	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6		3/9/2021	3448386	MONTENEGRO	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mittapalli, Chandramouli Chintu
29124-0109MK1	SMI.062MK	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6		3/9/2021	3448386	MACEDONIA	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mittapalli, Chandramouli Chintu
29124-0109MT1	SMI.062MT	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6		3/9/2021	3448386	MALTA	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mittapalli, Chandramouli Chintu
29124-0109MX1	SMI.062MX	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	MX/a/2018/013174	3/15/2019	MX/a/2018/013174A		MEXICO	SAMUMED, LLC	PUBLISHED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mittapalli, Chandramouli Chintu
29124-0109MY1	SMI.062MY	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	PI 2018/001772				MALAYSIA	SAMUMED, LLC	PENDING	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mittapalli, Chandramouli Chintu
29124-0109NL1	SMI.062NL	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6		3/9/2021	3448386	NETHERLANDS	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mittapalli, Chandramouli Chintu
29124-0109NO1	SMI.062NO	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6		3/9/2021	3448386	NORWAY	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mittapalli, Chandramouli Chintu
29124-0109NZ1	SMI.062NZ	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	747584				NEW ZEALAND	SAMUMED, LLC	PENDING	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mittapalli, Chandramouli Chintu
29124-0109P01	SMI.062PR	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2016	62528.255				UNITED STATES	Assignor: Sunil Kumar KC, Chi Ching Mak, Gopi Kumar Mittapalli, Brian Walter Eastman Assignee: SAMUMED, LLC Reel/Frame: 039217/0562 Recorded: 07/22/2016	EXPIRED	Sunil Kumar KC, Chi Ching Mak, Gopi Kumar Mittapalli, Brian Walter Eastman
29124-0109PE1	SMI.062PE	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	002164-2016/DIN	3/5/2019	2019-0326		PERU	SAMUMED, LLC	PUBLISHED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mittapalli, Chandramouli Chintu
29124-0109PH1	SMI.062PH	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	1-2018-502358				PHILIPPINES	SAMUMED, LLC	PENDING	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mittapalli, Chandramouli Chintu
29124-0109PL1	SMI.062PL	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6		3/9/2021	3448386	POLAND	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mittapalli, Chandramouli Chintu
29124-0109PT1	SMI.062PT	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6		3/9/2021	3448386	PORTUGAL	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mittapalli, Chandramouli Chintu
29124-0109RO1	SMI.062RO	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6		3/9/2021	3448386	ROMANIA	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mittapalli, Chandramouli Chintu

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29124-0109RS1	SMI.062RS	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6		3/9/2021	3448386	SERBIA	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappali, Chandramouli Chintu
29124-0109RU1	SMI.062RU	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	2018.141385	5/28/2020			RUSSIAN FEDERATION	SAMUMED, LLC	PUBLISHED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappali, Chandramouli Chintu
29124-0109SE1	SMI.062SE	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6		3/9/2021	3448386	SWEDEN	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappali, Chandramouli Chintu
29124-0109SG1	SMI.062SG	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	11201809301Y		2/5/2021	11201809301Y	SINGAPORE	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappali, Chandramouli Chintu
29124-0109SG2	SMI.062SG-DIV	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	10201914054S	3/30/2020			SINGAPORE	SAMUMED, LLC	PUBLISHED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappali, Chandramouli Chintu
29124-0109S1	SMI.062S1	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6		3/9/2021	3448386	SLOVENIA	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappali, Chandramouli Chintu
29124-0109S1K1	SMI.062SK	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6		3/9/2021	3448386	SLOVAKIA	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappali, Chandramouli Chintu
29124-0109SM1	SMI.062SM	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6		3/9/2021	3448386	SAN MARINO	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappali, Chandramouli Chintu
29124-0109TH1	SMI.062TH	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	1801006577				THAILAND	SAMUMED, LLC	PENDING	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappali, Chandramouli Chintu
29124-0109TR1	SMI.062TR	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	17790416.6		3/9/2021	3448386	TURKEY	SAMUMED, LLC	ISSUED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappali, Chandramouli Chintu
29124-0109VN1	SMI.062VN	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	1-2018-0523S	4/25/2019		82591	VIETNAM	SAMUMED, LLC	PUBLISHED	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappali, Chandramouli Chintu
29124-0109VD1	SMI.062PCT	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	PCTUS2017029805	11/2/2017		WC 2017/189829	WIPO	Assignor: Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappali, Chandramouli Chintu Assignee: SAMUMED, LLC ResilFrame: 04236470128 Recorded: 05/16/2017 SAMUMED, LLC	NAT PHASE	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappali, Chandramouli Chintu
29124-0109ZA1	SMI.062ZA	ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	4/27/2017	201807308				SOUTH AFRICA	SAMUMED, LLC	PENDING	Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Janguo Cao, Venkataiah Bolli, Gopi Kumar Mitiappali, Chandramouli Chintu
29124-0113001	SMI.063NP	PROCESS FOR PREPARING N,6,6',7',7',8-FLUOROPHENYL-9H-INDAZOL-5-COPYRIDIN-2-YL-1H-INDAZOL-5-YL-PYRIDIN-3-YL-3-METHYLEUTANAMIDE	8/1/2017	15811.150	12/7/2017	9/11/2018	10,072,004	UNITED STATES	Assignor: Sunil Kumar KC Assignee: SAMUMED, LLC ResilFrame: 04582170188 Recorded: 04/24/2018	ISSUED	Sunil Kumar KC
29124-0113002	SMI.063CON	PROCESS FOR PREPARING N,6,6',7',7',8-FLUOROPHENYL-9H-INDAZOL-5-COPYRIDIN-2-YL-1H-INDAZOL-5-YL-PYRIDIN-3-YL-3-METHYLEUTANAMIDE	8/28/2018	18115.222	8/27/2019	4/28/2020	10,633,380	UNITED STATES	Assignor: Sunil Kumar KC Assignee: SAMUMED, LLC ResilFrame: 0471270482 Recorded: 10/10/2018	ISSUED	Sunil Kumar KC

29124-0113003	S.MI.063CON2	PROCESS FOR PREPARING N-(5-(6-(7-(3-FLUOROPHENYL)-3-HIMIDAZOL-4-5-CIPYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLEBUTANAMIDE	3/9/2020	18/013,021	1/7/2021	US-2021-000273-A1	UNITED STATES	Assignor: Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 053845 / 0898 Recorded: 09/22/2020 SAMUMED, LLC	Sunil Kumar KC	ALLOWED
29124-0113001	S.MI.063AU	PROCESS FOR PREPARING N-(5-(6-(7-(3-FLUOROPHENYL)-3-HIMIDAZOL-4-5-CIPYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLEBUTANAMIDE	8/1/2017	2017274350	3/12/2019	BR112018074725-4	BRAZIL	SAMUMED, LLC	Sunil Kumar KC	PENDING
29124-0113001	S.MI.063BR	PROCESS FOR PREPARING N-(5-(6-(7-(3-FLUOROPHENYL)-3-HIMIDAZOL-4-5-CIPYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLEBUTANAMIDE	8/1/2017	BR112018074725-4	3/12/2019	BR112018074725-4	CANADA	SAMUMED, LLC	Sunil Kumar KC	PENDING
29124-01130A1	S.MI.063CA	PROCESS FOR PREPARING N-(5-(6-(7-(3-FLUOROPHENYL)-3-HIMIDAZOL-4-5-CIPYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLEBUTANAMIDE	8/1/2017	3,026,076			CHILE	SAMUMED, LLC	Sunil Kumar KC	PENDING
29124-01130L1	S.MI.063CL	PROCESS FOR PREPARING N-(5-(6-(7-(3-FLUOROPHENYL)-3-HIMIDAZOL-4-5-CIPYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLEBUTANAMIDE	8/1/2017	201803423			CHINA	SAMUMED, LLC	Sunil Kumar KC	PUBLISHED
29124-01130N1	S.MI.063CN	PROCESS FOR PREPARING N-(5-(6-(7-(3-FLUOROPHENYL)-3-HIMIDAZOL-4-5-CIPYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLEBUTANAMIDE	8/1/2017	201760044159.5	3/15/2019	CN 108476860 A	EUROPEAN PATENT CONVENTION	SAMUMED, LLC	Sunil Kumar KC	PUBLISHED
29124-01130P1	S.MI.063EP	PROCESS FOR PREPARING N-(5-(6-(7-(3-FLUOROPHENYL)-3-HIMIDAZOL-4-5-CIPYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLEBUTANAMIDE	8/1/2017	17729894.4	4/10/2019	3464285	HONG KONG	SAMUMED, LLC	Sunil Kumar KC	PUBLISHED
29124-01130K1	S.MI.063HK	PROCESS FOR PREPARING N-(5-(6-(7-(3-FLUOROPHENYL)-3-HIMIDAZOL-4-5-CIPYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLEBUTANAMIDE	8/1/2017	19127547.6	4/24/2020	40004188	INDONESIA	SAMUMED, LLC	Sunil Kumar KC	PUBLISHED
29124-01130D1	S.MI.063ID	PROCESS FOR PREPARING N-(5-(6-(7-(3-FLUOROPHENYL)-3-HIMIDAZOL-4-5-CIPYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLEBUTANAMIDE	8/1/2017	PID201811032	2/15/2019	2019/01128	ISRAEL	SAMUMED, LLC	Sunil Kumar KC	PENDING
29124-01130L1	S.MI.063IL	PROCESS FOR PREPARING N-(5-(6-(7-(3-FLUOROPHENYL)-3-HIMIDAZOL-4-5-CIPYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLEBUTANAMIDE	8/1/2017	263382			INDIA	SAMUMED, LLC	Sunil Kumar KC	PUBLISHED
29124-01130N1	S.MI.063IN	PROCESS FOR PREPARING N-(5-(6-(7-(3-FLUOROPHENYL)-3-HIMIDAZOL-4-5-CIPYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLEBUTANAMIDE	8/1/2017	201817049877	3/22/2019	201817049877 A	JAPAN	SAMUMED, LLC	Sunil Kumar KC	PENDING
29124-01130P1	S.MI.063JP	PROCESS FOR PREPARING N-(5-(6-(7-(3-FLUOROPHENYL)-3-HIMIDAZOL-4-5-CIPYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLEBUTANAMIDE	8/1/2017	2018-582998	8/15/2019	2019-522840	SOUTH KOREA	SAMUMED, LLC	Sunil Kumar KC	PENDING
29124-01130K1	S.MI.063KR	PROCESS FOR PREPARING N-(5-(6-(7-(3-FLUOROPHENYL)-3-HIMIDAZOL-4-5-CIPYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLEBUTANAMIDE	8/1/2017	10-2018-1038209			MEXICO	SAMUMED, LLC	Sunil Kumar KC	PENDING
29124-01130M1	S.MI.063MX	PROCESS FOR PREPARING N-(5-(6-(7-(3-FLUOROPHENYL)-3-HIMIDAZOL-4-5-CIPYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLEBUTANAMIDE	8/1/2017	MX/a/2018/014871			MALAYSIA	SAMUMED, LLC	Sunil Kumar KC	PENDING
29124-01130Y1	S.MI.063MY	PROCESS FOR PREPARING N-(5-(6-(7-(3-FLUOROPHENYL)-3-HIMIDAZOL-4-5-CIPYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLEBUTANAMIDE	8/1/2017	PI 20180022280			NEW ZEALAND	SAMUMED, LLC	Sunil Kumar KC	PENDING
29124-01130Z1	S.MI.063NZ	PROCESS FOR PREPARING N-(5-(6-(7-(3-FLUOROPHENYL)-3-HIMIDAZOL-4-5-CIPYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLEBUTANAMIDE	8/1/2017	749580			UNITED STATES	Assignor: Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 039217 / 0839 Recorded: 07/22/2018	Sunil Kumar KC	EXPIRED
29124-01130T1	S.MI.063FR	PROCESS FOR PREPARING N-(5-(6-(7-(3-FLUOROPHENYL)-3-HIMIDAZOL-4-5-CIPYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLEBUTANAMIDE	8/1/2016	62418.857			UNITED STATES	Assignor: Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 040432 / 0814 Recorded: 11/28/2018	Sunil Kumar KC	EXPIRED
29124-01130U1	S.MI.063RU	PROCESS FOR PREPARING N-(5-(6-(7-(3-FLUOROPHENYL)-3-HIMIDAZOL-4-5-CIPYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLEBUTANAMIDE	8/1/2017	2018.46462	7/9/2020		RUSSIAN FEDERATION	SAMUMED, LLC	Sunil Kumar KC	PUBLISHED
29124-01130G1	S.MI.063SG	PROCESS FOR PREPARING N-(5-(6-(7-(3-FLUOROPHENYL)-3-HIMIDAZOL-4-5-CIPYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLEBUTANAMIDE	8/1/2017	11201810683V			SINGAPORE	SAMUMED, LLC	Sunil Kumar KC	PENDING
29124-01130G2	S.MI.063SG DIV	PROCESS FOR PREPARING N-(5-(6-(7-(3-FLUOROPHENYL)-3-HIMIDAZOL-4-5-CIPYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLEBUTANAMIDE	8/1/2017	10201912246R	2/27/2020		SINGAPORE	SAMUMED, LLC	Sunil Kumar KC	PUBLISHED
29124-01130TH1	S.MI.063TH	PROCESS FOR PREPARING N-(5-(6-(7-(3-FLUOROPHENYL)-3-HIMIDAZOL-4-5-CIPYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLEBUTANAMIDE	8/1/2017	1801007453			THAILAND	SAMUMED, LLC	Sunil Kumar KC	PENDING
29124-01130W1	S.MI.063VN	PROCESS FOR PREPARING N-(5-(6-(7-(3-FLUOROPHENYL)-3-HIMIDAZOL-4-5-CIPYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLEBUTANAMIDE	8/1/2017	1-2018-06062	5/27/2019	83230	VIETNAM	SAMUMED, LLC	Sunil Kumar KC	PUBLISHED
29124-01130D1	S.MI.063PCT	PROCESS FOR PREPARING N-(5-(6-(7-(3-FLUOROPHENYL)-3-HIMIDAZOL-4-5-CIPYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLEBUTANAMIDE	8/1/2017	PCT/US2017035411	12/7/2017	WO 2017/210407	WIPO	Assignor: Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 053845 / 0898 Recorded: 09/22/2020	Sunil Kumar KC	NAT PHASE
29124-01130Z1	S.MI.063ZA	PROCESS FOR PREPARING N-(5-(6-(7-(3-FLUOROPHENYL)-3-HIMIDAZOL-4-5-CIPYRIDIN-2-YL)-1H-INDAZOL-5-YL)PYRIDIN-3-YL)-3-METHYLEBUTANAMIDE	8/1/2017	2019/00018			SOUTH AFRICA	SAMUMED, LLC	Sunil Kumar KC	PENDING

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29124-0118002	SMI.064JUSCON	2-(1H-INDAZOL-3-YL)-3H-IMIDAZO[4,5-C]PYRIDINES AND THEIR ANTI-INFLAMMATORY USES THEREOF	12/4/2020	17/112,282				UNITED STATES	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweering, Luis A. Dellamary Assignee: SAMUMED, LLC Reel/Frame: 054581/0108 Recorded: 12/28/2020	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweering, Luis A. Dellamary	PENDING
29124-0118CA1	SMI.064CA	2-(1H-INDAZOL-3-YL)-3H-IMIDAZO[4,5-C]PYRIDINES AND THEIR ANTI-INFLAMMATORY USES THEREOF	11/7/2016	3004297				CANADA	Recorded: 12/28/2020	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweering, Luis A. Dellamary	PENDING
29124-0118CN1	SMI.064CN	2-(1H-INDAZOL-3-YL)-3H-IMIDAZO[4,5-C]PYRIDINES AND THEIR ANTI-INFLAMMATORY USES THEREOF	11/7/2016	201860075175.6	8/31/2018	108473491 A		CHINA	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweering, Luis A. Dellamary	PUBLISHED
29124-0118EP1	SMI.064EP	2-(1H-INDAZOL-3-YL)-3H-IMIDAZO[4,5-C]PYRIDINES AND THEIR ANTI-INFLAMMATORY USES THEREOF	11/7/2016	16663778.6	9/12/2018	3371187		EUROPEAN PATENT CONVENTION	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweering, Luis A. Dellamary	PUBLISHED
29124-0118HK1	SMI.064HK	2-(1H-INDAZOL-3-YL)-3H-IMIDAZO[4,5-C]PYRIDINES AND THEIR ANTI-INFLAMMATORY USES THEREOF	11/7/2016	19120645.7	12/20/2019	1260770A		HONG KONG	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweering, Luis A. Dellamary	PUBLISHED
29124-0118JP1	SMI.064JP	2-(1H-INDAZOL-3-YL)-3H-IMIDAZO[4,5-C]PYRIDINES AND THEIR ANTI-INFLAMMATORY USES THEREOF	11/7/2016	2018-523022	12/27/2018	2018-538258		JAPAN	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweering, Luis A. Dellamary	PUBLISHED
29124-0118KR1	SMI.064kr	2-(1H-INDAZOL-3-YL)-3H-IMIDAZO[4,5-C]PYRIDINES AND THEIR ANTI-INFLAMMATORY USES THEREOF	11/7/2016	10-2018-7015778	12/27/2018			SOUTH KOREA	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweering, Luis A. Dellamary	PENDING
29124-0118MX1	SMI.064MX	2-(1H-INDAZOL-3-YL)-3H-IMIDAZO[4,5-C]PYRIDINES AND THEIR ANTI-INFLAMMATORY USES THEREOF	11/7/2016	MX/a/2018/0056894	12/18/2018	MX/a/2018/0056894A		MEXICO	SAMUMED, LLC	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweering, Luis A. Dellamary	PUBLISHED
29124-0118US1	SMI.064US	2-(1H-INDAZOL-3-YL)-3H-IMIDAZO[4,5-C]PYRIDINES AND THEIR ANTI-INFLAMMATORY USES THEREOF	5/4/2018	15773737	11/8/2018	US-2018-0318292-A1	1/26/2021	UNITED STATES	Assignor: John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweering, Luis A. Dellamary Assignee: SAMUMED, LLC Reel/Frame: 051935 / 0778 Recorded: 02/28/2020	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweering, Luis A. Dellamary	ISSUED
29124-0118V01	SMI.064PCT	2-(1H-INDAZOL-3-YL)-3H-IMIDAZO[4,5-C]PYRIDINES AND THEIR ANTI-INFLAMMATORY USES THEREOF	11/7/2016	PCT/US2016/060685	5/11/2017	WO 2017/079759		WIPO	Recorded: 04/09/2019 Assignor: John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweering, Luis A. Dellamary Assignee: SAMUMED, LLC Reel/Frame: 048624 / 0529	John Hood, David Mark Wallace, Sunil Kumar KC, Yusuf Yazici, Christopher Sweering, Luis A. Dellamary	NAT PHASE
29124-0117001	SMI.066NP	SINGLE-DOSE, READY-TO-USE INJECTABLE FORMULATIONS	11/7/2017	15806321	5/17/2018	US-2018-0133199-A1	9/1/2020	UNITED STATES	Recorded: 02/28/2020 Assignor: Luis A. Dellamary Assignee: SAMUMED, LLC Reel/Frame: 044194 / 0195	Luis A. Dellamary	ISSUED
29124-0117002	SMI.066NCON	SINGLE-DOSE, READY-TO-USE INJECTABLE FORMULATIONS	7/27/2020	198393713				UNITED STATES	Recorded: 11/21/2017 Assignor: Luis A. Dellamary Assignee: SAMUMED, LLC Reel/Frame: 053349/0913	Luis A. Dellamary	PENDING
29124-0117EP1	SMI.066EP	SINGLE-DOSE, READY-TO-USE INJECTABLE FORMULATIONS	11/7/2017	17801245.6	9/11/2019	3534676		EUROPEAN PATENT CONVENTION	Recorded: 8/4/2010	Luis A. Dellamary	PUBLISHED
29124-0117HK1	SMI.066HK	SINGLE-DOSE, READY-TO-USE INJECTABLE FORMULATIONS	11/7/2017	8202000972.0	8/14/2020	4001428		HONG KONG	SAMUMED, LLC	Luis A. Dellamary	PUBLISHED
29124-0117JP1	SMI.066JP	SINGLE-DOSE, READY-TO-USE INJECTABLE FORMULATIONS	11/7/2017	2019-523778	11/21/2019	2019-533702		JAPAN	SAMUMED, LLC	Luis A. Dellamary	PUBLISHED
29124-0117KR1	SMI.066KR	SINGLE-DOSE, READY-TO-USE INJECTABLE FORMULATIONS	11/7/2017	10-2019-7015685				SOUTH KOREA	SAMUMED, LLC	Luis A. Dellamary	PENDING
29124-0117V01	SMI.066	SINGLE-DOSE, READY-TO-USE INJECTABLE FORMULATIONS	11/7/2016	82418368				UNITED STATES	Assignor: Luis A. Dellamary Assignee: SAMUMED, LLC Reel/Frame: 040432 / 0755 Recorded: 11/28/2016	Luis A. Dellamary	EXPIRED

29124-0128002	SMI.067CON1	6-6-MEMBERED HETEROARYL & ARYLISQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	1/9/2020	19,738,391				19,738,391	1/9/2020	UNITED STATES	ABANDONED	Assignor: Sunil Kumar KC, Chi Ching Mak, Brian Joseph Hoffena, Gopi Kumar Mittapalli, Brian Walter Eastman, Janguo Cao, Venkataiah Bolla, Chandramouli Chiruta Assignee: SAMUMED, LLC Reel/Frame: 051935/0859 Recorded: 2/25/2020
29124-0128P01	SMI.067-PR	6-6-MEMBERED HETEROARYL & ARYLISQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	10/27/2017	62,577,818				62,577,818	10/27/2017	UNITED STATES	EXPIRED	Assignor: Sunil Kumar KC, Chi Ching Mak, Brian Joseph Hoffena, Gopi Kumar Mittapalli, Brian Walter Eastman, Janguo Cao, Venkataiah Bolla, Chandramouli Chiruta Assignee: SAMUMED, LLC Reel/Frame: 044194 / 0708 Recorded: 11/21/2017
29124-0128W01	SMI.067PCT	6-6-MEMBERED HETEROARYL & ARYLISQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	10/26/2018	PCTUS2018/057854	5/2/2019	WO 2019/064487			10/26/2018	WIPO	ABANDONED	Assignor: Sunil Kumar KC, Chi Ching Mak, Brian Joseph Hoffena, Gopi Kumar Mittapalli, Brian Walter Eastman, Janguo Cao, Venkataiah Bolla, Chandramouli Chiruta Assignee: SAMUMED, LLC Reel/Frame: 051935 / 0859 Recorded: 02/26/2020
29124-0127001	SMI.068	6-5-MEMBERED HETEROARYLISQUINOLIN-3-YL-(5-MEMBERED HETEROARYL) CARBOXAMIDES AND PREPARATION AND USE THEREOF	10/26/2018	19,172,569	5/2/2019	US-2019-0125741-A1		10,413,537	9/17/2019	UNITED STATES	ISSUED	Assignor: Sunil Kumar KC, Chi Ching Mak, Brian Joseph Hoffena, Gopi Kumar Mittapalli, Brian Walter Eastman, Janguo Cao, Venkataiah Bolla, Chandramouli Chiruta Assignee: SAMUMED, LLC Reel/Frame: 048824 / 0487 Recorded: 04/08/2019
29124-0127002	SMI.068CON1	6-5-MEMBERED HETEROARYLISQUINOLIN-3-YL-(5-MEMBERED HETEROARYL) CARBOXAMIDES AND PREPARATION AND USE THEREOF	7/31/2019	19,528,023	5/21/2020	US-2020-0155540-A1		10,744,128	8/18/2020	UNITED STATES	ISSUED	Assignor: Sunil Kumar KC, Chi Ching Mak, Brian Joseph Hoffena, Gopi Kumar Mittapalli, Brian Walter Eastman, Janguo Cao, Venkataiah Bolla, Chandramouli Chiruta Assignee: SAMUMED, LLC Reel/Frame: 050014 / 0838 Recorded: 08/09/2019
29124-0127P01	SMI.068-PR	6-5-MEMBERED HETEROARYLISQUINOLIN-3-YL-(5-MEMBERED HETEROARYL) CARBOXAMIDES AND PREPARATION AND USE THEREOF	10/27/2017	62,578,370				62,578,370	10/27/2017	UNITED STATES	EXPIRED	Assignor: Sunil Kumar KC, Chi Ching Mak, Brian Joseph Hoffena, Gopi Kumar Mittapalli, Brian Walter Eastman, Janguo Cao, Venkataiah Bolla, Chandramouli Chiruta Assignee: SAMUMED, LLC Reel/Frame: 044194 / 0852 Recorded: 11/21/2017
29124-0127W01	SMI.068PCT	6-5-MEMBERED HETEROARYLISQUINOLIN-3-YL-(5-MEMBERED HETEROARYL) CARBOXAMIDES AND PREPARATION AND USE THEREOF	10/26/2018	PCTUS2018/057853	5/2/2019	WO 2019/064496			10/26/2018	WIPO	ABANDONED	Assignor: Sunil Kumar KC, Chi Ching Mak, Brian Joseph Hoffena, Gopi Kumar Mittapalli, Brian Walter Eastman, Janguo Cao, Venkataiah Bolla, Chandramouli Chiruta Assignee: SAMUMED, LLC Reel/Frame: 051935 / 0184 Recorded: 02/26/2020
29124-0128001	SMI.069	6-5-MEMBERED HETEROARYLISQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	10/18/2018	19,164,447	4/25/2019	US-2019-0119283-A1		10,604,514	3/31/2020	UNITED STATES	ISSUED	Assignor: Sunil Kumar KC, Gopi Kumar Mittapalli, Chandramouli Chiruta, Brian Joseph Hoffena, Chi Ching Mak, Brian Walter Eastman, Venkataiah Bolla, Chandramouli Chiruta Assignee: SAMUMED, LLC Reel/Frame: 048799 / 0833 Recorded: 04/04/2019
29124-0128002	SMI.069CON	6-5-MEMBERED HETEROARYLISQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	2/20/2020	19,795,734					2/20/2020	UNITED STATES	ABANDONED	Assignor: Sunil Kumar KC, Gopi Kumar Mittapalli, Chandramouli Chiruta, Brian Joseph Hoffena, Chi Ching Mak, Brian Walter Eastman, Venkataiah Bolla, Chandramouli Chiruta Assignee: SAMUMED, LLC Reel/Frame: 051935/0896 Recorded: 2/26/2020
29124-0128P01	SMI.069-PR	6-5-MEMBERED HETEROARYLISQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	10/19/2017	62,574,588				62,574,588	10/19/2017	UNITED STATES	EXPIRED	Assignor: Sunil Kumar KC, Gopi Kumar Mittapalli, Chandramouli Chiruta, Brian Joseph Hoffena, Chi Ching Mak, Brian Walter Eastman, Venkataiah Bolla, Chandramouli Chiruta Assignee: SAMUMED, LLC Reel/Frame: 044194 / 0977 Recorded: 11/21/2017
29124-0128P02	SMI.069-PR-2	6-5-MEMBERED HETEROARYLISQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	10/30/2017	62,576,891				62,576,891	10/30/2017	UNITED STATES	EXPIRED	Assignor: Sunil Kumar KC, Gopi Kumar Mittapalli, Chandramouli Chiruta, Brian Joseph Hoffena, Chi Ching Mak, Brian Walter Eastman, Venkataiah Bolla, Chandramouli Chiruta Assignee: SAMUMED, LLC Reel/Frame: 044195 / 0096 Recorded: 11/21/2017

29124-0128WO1	SMI.069PCT	6-(5-MEMBERED HETEROARYL)ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	10/18/2018	PCTUS2018/058660	4/25/2019	WO 2019/079626	WIPO	ABANDONED	Assignor: Sunil Kumar KC, Gopi Kumar Mitlapalli, Chandramouli Chiruta, Brian Joseph Hollena, Chi Ching Mak, Brian Waller Eastman, Venkataiah Bolla, ResilFrame, 051964 / 0258 Recorded: 02/28/2020
29124-0129WO1	SMI.070	DIAZANAPHTHALEN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	10/31/2018	16/177,149	5/2/2019	US-2019-0127370-A1	UNITED STATES	ISSUED	Assignor: Sunil Kumar KC, Chi Ching Mak, Jianguo Cao, Venkataiah Bolla, Chandramouli Chiruta, Gopi Kumar Mitlapalli, Brian Waller Eastman, Brian Joseph Hollena Assignee: SAMUMED, LLC Recorded: 04/04/2019
29124-0129P01	SMI.070-PR	DIAZANAPHTHALEN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	10/31/2017	62/579,863			UNITED STATES	EXPIRED	Assignor: Sunil Kumar KC, Chi Ching Mak, Jianguo Cao, Venkataiah Bolla, Chandramouli Chiruta, Gopi Kumar Mitlapalli, Brian Waller Eastman Assignee: SAMUMED, LLC Recorded: 11/21/2017
29124-0129WO1	SMI.070PCT	DIAZANAPHTHALEN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF	10/31/2018	PCTUS2018/058664	5/9/2019	WO 2019/069835	WIPO	ABANDONED	Assignor: Sunil Kumar KC, Chi Ching Mak, Jianguo Cao, Venkataiah Bolla, Chandramouli Chiruta, Gopi Kumar Mitlapalli, Brian Waller Eastman Assignee: SAMUMED, LLC Recorded: 02/28/2020
29124-0130P01	SMI.071-PR	TREATMENT OF OSTEOARTHRITIS AND DOSING REGIMEN FOR N-(5-(7-(3-FLUOROPHENYL)-3HIMIDAZOL-5-CYPRIDIN-2-YL)-1H-INDAZOL-5-YL)-3-METHYLBUTANAMIDE	11/3/2017	62/581,639			UNITED STATES	ABANDONED	Assignor: Christopher Sweanigen, Vishal Deshmukh, Yusuf Yazici, Aman Yusuul Onuc, David Mark Wallace Assignee: SAMUMED, LLC Recorded: 02/15/2018
29124-0131P01	SMI.071-PR-1	TREATMENT OF OSTEOARTHRITIS AND DOSING REGIMEN FOR N-(5-(7-(3-FLUOROPHENYL)-3HIMIDAZOL-5-CYPRIDIN-2-YL)-1H-INDAZOL-5-YL)-3-METHYLBUTANAMIDE	11/3/2017	62/581,648			UNITED STATES	ABANDONED	Assignor: Christopher Sweanigen, Vishal Deshmukh, Yusuf Yazici, Aman Yusuul Onuc, David Mark Wallace Assignee: SAMUMED, LLC Recorded: 02/15/2018
29124-0132P01	SMI.071-PR-2	TREATMENT OF OSTEOARTHRITIS AND DOSING REGIMEN FOR N-(5-(7-(3-FLUOROPHENYL)-3HIMIDAZOL-5-CYPRIDIN-2-YL)-1H-INDAZOL-5-YL)-3-METHYLBUTANAMIDE	11/3/2017	62/581,653			UNITED STATES	ABANDONED	Assignor: Christopher Sweanigen, Vishal Deshmukh, Yusuf Yazici, Aman Yusuul Onuc, David Mark Wallace Assignee: SAMUMED, LLC Recorded: 02/15/2018
29124-0133P01	SMI.071-PR-3	TREATMENT OF OSTEOARTHRITIS AND DOSING REGIMEN FOR N-(5-(7-(3-FLUOROPHENYL)-3HIMIDAZOL-5-CYPRIDIN-2-YL)-1H-INDAZOL-5-YL)-3-METHYLBUTANAMIDE	11/3/2017	62/581,655			UNITED STATES	ABANDONED	Assignor: Christopher Sweanigen, Vishal Deshmukh, Yusuf Yazici, Aman Yusuul Onuc, David Mark Wallace Assignee: SAMUMED, LLC Recorded: 02/15/2018
29124-0134WO1	SMI.072	INDAZOLE CONTAINING MACROCYCLES AND THERAPEUTIC USES THEREOF	9/19/2019	16/440,284	12/19/2019	US-2019-0382402-A1	UNITED STATES	ISSUED	Assignor: Sunil Kumar KC, Gopi Kumar Mitlapalli, Chandramouli Chiruta, Brian Joseph Hollena Assignee: SAMUMED, LLC Recorded: 02/26/2020
29124-0134P01	SMI.072PR	INDAZOLE CONTAINING MACROCYCLES AND THERAPEUTIC USES THEREOF	9/19/2018	62/585,764			UNITED STATES	EXPIRED	Assignor: Sunil Kumar KC, Gopi Kumar Mitlapalli, Chandramouli Chiruta, Brian Joseph Hollena Assignee: SAMUMED, LLC Recorded: 12/07/2018
29124-0134WO1	SMI.072WO	INDAZOLE CONTAINING MACROCYCLES AND THERAPEUTIC USES THEREOF	9/19/2019	PCTUS2019/037024	12/19/2019	WO 2019/241540	WIPO	ABANDONED	Assignor: Sunil Kumar KC, Gopi Kumar Mitlapalli, Chandramouli Chiruta, Brian Joseph Hollena Assignee: SAMUMED, LLC Recorded: 03/05/2020
29124-0135P01	SMI.075EP	METHODS OF TREATING CANCER USING A CLK INHIBITOR	8/25/2019	18624758.7			EUROPEAN PATENT CONVENTION	PENDING	Betty Tam, Camille Bossard, Kevin Tseng Chiu, Heekyoung Chung, Luis A Delamary, Chi Ching Mak, Yoon Hoang Do, Seonyoung Park, Yoon Cheon, Mike Jarvis
29124-0135P01	SMI.075PR	METHODS OF TREATING CANCER USING A CLK INHIBITOR	8/25/2018	62/560,146			UNITED STATES	EXPIRED	Assignor: Betty Tam, Camille Bossard, Kevin Tseng Chiu, Heekyoung Chung, Luis A Delamary, Chi Ching Mak Assignee: SAMUMED, LLC Recorded: 04/7709/0404

29124-0135F02	SMI.075PR2	METHODS OF TREATING CANCER USING A CLK INHIBITOR	5/10/2019	62/846,335				UNITED STATES	Assignor: Betty Tam, Carine Bossard, Kevin Tseng Chiu, Heekyung Chung, Luis A Dellamary, Chi Ching Mak Assignee: SAMUMED, LLC Reel/Frame: 051753/0110 Recorded: 2/7/2020	EXPIRED
29124-0135U01	SMI.075US	METHODS OF TREATING CANCER USING A CLK INHIBITOR	12/21/2020	17/254,352				UNITED STATES	Assignor: Betty Tam, Carine Bossard, Kevin Tseng Chiu, Heekyung Chung, LUIS A. DELLAMARY, Chi Ching Mak, Long Hoang Do, Seong Yeon Cho, Luke Jervis Assignee: SAMUMED, LLC Reel/Frame: 054710/0341 Recorded: 12/21/2020	PENDING
29124-0135W01	SMI.075WO	METHODS OF TREATING CANCER USING A CLK INHIBITOR	6/29/2019	PCTUS2019/039301	1/2/2020	WO 2020/006115		WIPO	Assignor: Betty Tam, Carine Bossard, Kevin Tseng Chiu, Heekyung Chung, Luis A Dellamary, Chi Ching Mak, Long Hoang Do, Seong Yeon Cho, Luke Jervis Assignee: SAMUMED, LLC Reel/Frame: 051753/0284 Recorded: 2/7/2020	NAT PHASE
29124-0139F01	SMI.074	PYRAZOLE DERIVATIVES AS MODULATORS OF THE WNT/BETA-CATENIN SIGNALING PATHWAY	1/17/2019	62/793,428				UNITED STATES	Assignor: Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Joseph Timothy Marakovits, Venkataiah Bolli, Jianguo Cao, Gopi Kumar Mittapalli Assignee: SAMUMED, LLC Reel/Frame: 048799/0591 Recorded: 4/4/2019	EXPIRED
29124-0139F02	SMI.074PR2	PYRAZOLE DERIVATIVES AS MODULATORS OF THE WNT/BETA-CATENIN SIGNALING PATHWAY	4/9/2019	62/831,478				UNITED STATES	Assignor: Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Joseph Timothy Marakovits, Venkataiah Bolli, Jianguo Cao, Gopi Kumar Mittapalli Assignee: SAMUMED, LLC Reel/Frame: 048991/0117 Recorded: 4/25/2019	EXPIRED
29124-0139W01	SMI.074PCT	PYRAZOLE DERIVATIVES AS MODULATORS OF THE WNT/BETA-CATENIN SIGNALING PATHWAY	1/17/2020	PCTUS2020/013983	7/23/2020	WO 2020/150545		WIPO	Assignor: Sunil Kumar KC, Chi Ching Mak, Brian Walter Eastman, Joseph Timothy Marakovits, Venkataiah Bolli, Jianguo Cao, Gopi Kumar Mittapalli Assignee: SAMUMED, LLC Reel/Frame: 053844/0712 Recorded: 9/22/2020	PUBLISHED
29124-0140F01	SMI.076PR	METHODS OF TREATING CARTILAGE DISORDERS THROUGH INHIBITION OF CLK AND DYRK	1/17/2019	62/793,855				UNITED STATES	Assignor: Vishal Deshmukh, Alysia Lauren O'Green, Carine Bossard, Charlene F. Barroga, John Hood Assignee: SAMUMED, LLC Reel/Frame: 048799/0572 Recorded: 4/4/2019	EXPIRED
29124-0140W01	SMI.076PCT	METHODS OF TREATING CARTILAGE DISORDERS THROUGH INHIBITION OF CLK AND DYRK	1/17/2020	PCTUS2020/013995	7/23/2020	WO 2020/150552		WIPO	Assignor: Vishal Deshmukh, Alysia Lauren O'Green, Carine Bossard, Charlene F. Barroga, John Hood Assignee: SAMUMED, LLC Reel/Frame: 053844/0643 Recorded: 9/22/2020	PUBLISHED
29124-0145F01	SMI.078PR	SOLID FORMS OF 1-(5-(3-(7-(6-FLUOROPHENYL)-3H-IMIDAZO[4,5-C]PYRIDIN-2-YL)-HPYRAZOLQ[3,4-B]PYRIDIN-5-YL)PYRIDIN-3-YD)-N,N-DIMETHYLMETHANAMINE	2/21/2020	62/879,462				UNITED STATES	Assignor: Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: 053844/0952 Recorded: 9/22/2020	PENDING
29124-0145W01	SMI.078WO	SOLID FORMS OF 1-(5-(3-(7-(6-FLUOROPHENYL)-3H-IMIDAZO[4,5-C]PYRIDIN-2-YL)-HPYRAZOLQ[3,4-B]PYRIDIN-5-YL)PYRIDIN-3-YD)-N,N-DIMETHYLMETHANAMINE	2/19/2021	PCTUS2021/018866				WIPO	Assignor: Sunil Kumar KC Assignee: SAMUMED, LLC Reel/Frame: TBA Recorded: TBA	PENDING
29124-0154F01	SMI.079PR	ISOTOPIC ANALOGS OF 1-(5-(3-(7-(6-FLUOROPHENYL)-3H-IMIDAZO[4,5-C]PYRIDIN-2-YL)-HPYRAZOLQ[3,4-B]PYRIDIN-5-YL)PYRIDIN-3-YD)-N,N-DIMETHYLMETHANAMINE	2/4/2020	62/869,968				UNITED STATES	Assignor: Sunil Kumar KC, David Mark Wallace, Brian Joseph Hollena Assignee: SAMUMED, LLC Reel/Frame: 053845/0371 Recorded: 9/22/2020	EXPIRED

RECORDED: 10/14/2021

PATENT
REEL: 058057 FRAME: 0443