506396477 12/10/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6443233

"THE	ctive Assignment to correct the NAME OF ASSIGNEE SHOULD BE UNITED STATES GOVERNMENT AS REPRESENTED BY THE ARTMENT OF VETERANS AFFAIRS" previously recorded on Reel 51 Frame 0348. Assignor(s) hereby confirms the ASSIGNMENT.

CONVEYING PARTY DATA

Name	Execution Date
EMORY UNIVERSITY	10/22/2020

RECEIVING PARTY DATA

Name:	THE UNITED STATES GOVERNMENT AS REPRESENTED BY THE DEPARTMENT OF VETERANS AFFAIRS
Street Address:	810 VERMONT AVENUE NW
City:	WASHINGTON
State/Country:	D.C.
Postal Code:	20420

PROPERTY NUMBERS Total: 11

Property Type	Number
Application Number:	12421362
Application Number:	14360905
Application Number:	14808860
Application Number:	15594796
Application Number:	16036670
Application Number:	16082747
Application Number:	61045064
Application Number:	61564994
Application Number:	61570813
Application Number:	62305865
PCT Number:	US0940092

CORRESPONDENCE DATA

Fax Number: (919)653-0435

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 9195737439

Email: internationalpatent@nexsenpruet.com

Correspondent Name: NEXSEN PRUET, PLLC

PATENT

506396477 REEL: 054676 FRAME: 0553

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Address Line 2: SUITE 200

Address Line 4: RALEIGH, NORTH CAROLINA 27612

ATTORNEY DOCKET NUMBER: 061825-00000

NAME OF SUBMITTER: DAVID S. BRADIN

SIGNATURE: /David S. Bradin/

DATE SIGNED: 12/10/2020

Total Attachments: 5

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> PATENT REEL: 054676 FRAME: 0554

506319041 10/23/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6365792

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
EMORY UNIVERSITY	10/22/2020

RECEIVING PARTY DATA

Name:	DEPARTMENT OF VETERANS AFFAIRS
Street Address:	810 VERMONT AVENUE NW
City:	WASHINGTON
State/Country:	D.C.
Postal Code:	20420

PROPERTY NUMBERS Total: 11

Property Type	Number
PCT Number:	US0940092
Application Number:	61045064
Patent Number:	8415321
PCT Number:	US1267369
Application Number:	61570813
Application Number:	61564994
Application Number:	16036670
Patent Number:	10022378
Patent Number:	9662332
PCT Number:	US1721551
Application Number:	62305865

CORRESPONDENCE DATA

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Phone: 9195737439

Email:uspatent@nexsenpruet.comCorrespondent Name:NEXSEN PRUET, PLLCAddress Line 1:4141 PARKLAKE AVENUE

Address Line 2: SUITE 200

Address Line 4: RALEIGH, NORTH CAROLINA 27612

506319041 PATENT REEL: 054**636** FRAME: 05**5**8

ATTORNEY DOCKET NUMBER:	061825-00000
NAME OF SUBMITTER:	DAVID S. BRADIN
SIGNATURE:	/David S. Bradin/
DATE SIGNED: 10/23/2020	
Total Attachments: 3	
Total Attachments: 3	

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> PATENT REEL: 054636 FRAME: 0550

ASSIGNMENT

WHEREAS, EMORY UNIVERSITY, having a place of business at the Office of Technology Transfer, 1599 Clifton Road NE, 4th Floor, Atlanta, GA 30322, hereinafter referred to as ASSIGNOR, is the Assignee for the entire right, title, and interest in the patents and pending applications identified in Schedule A, and the inventions embodied in these patents and pending applications (the "Patent Rights"); and

NOW, THEREFORE, for good and valuable consideration received, the sufficiency and adequacy of which are hereby acknowledged, EMORY UNIVERSITY, sells, assigns and transfers unto The United States Government as Represented by the Department of Veterans Affairs, having a place of business at 810 Vermont Avenue (NW), Washington, DC 20420, an undivided interest in the right, and title in and to said Patent Rights throughout the world, including, without limitation, any U.S. and foreign applications claiming a right of priority from the provisional patent applications listed in Schedule A, any Letters Patents of any country which may issue thereon, said provisional applications, and any subsequent applications claiming priority to the above-identified applications under 35 U.S.C. § 19(e), any reissue, reexamination, division, continuation-in-part, extension or continuation thereof and all rights of priority under any International Convention arising from said applications.

AND, EMORY UNIVERSITY hereby binds itself, its heirs, legal representatives, administrators and assigns properly to execute without further consideration any and all applications, petitions, oaths and assignments or other papers and instruments which may be necessary in order to carry into full force and effect, the sale, assignment, transfer and conveyance hereby made or intended to be made and generally do everything possible to aid our legal representatives and assigns, to obtain and enforce proper protection for said inventions in all countries throughout the world.

1

PATENT REEL: 054636 FRAME: 0550 IN WITNESS THEREOF, we have executed this assignment on the day indicated below.

EMORY UNIVERSITY

By: Lable Frets

Name: Laura Fahey Fritts, J.D., MPH

Title: Director; License and Patent Strategy and

Chief Intellectual Property Officer

Schedule A: Patent Rights

PCT/US2009/040092, entitled "Nucleoside Derivatives for Treatment of Caliciviridae Infections, Including Norovirus Infections"

- U.S. Provisional Application No. 61/045,064, entitled "Nucleoside Derivatives for Treatment of Caliciviridae Infections, Including Norovirus Infections"
- U.S. Patent No. 8,415,321, entitled "Nucleoside Derivatives for Treatment of Caliciviridae Infections, Including Norovirus Infections"

PCT/US2012/067369, entitled "Antiviral Jak Inhibitors Useful in Treating or Preventing Retroviral and Other Viral Infections"

- U.S. Provisional Application No. 61/570,813, entitled "Antiviral Jak Inhibitors Useful in Treating or Preventing Retroviral and Other Viral Infections"
- U.S. Provisional Application No. 61/564,994, entitled "Antiviral Jak Inhibitors Useful in Treating or Preventing Retroviral and Other Viral Infections"
- U.S. Serial No. 16/036,670, entitled "Antiviral Jak Inhibitors Useful in Treating or Preventing Retroviral and Other Viral Infections"
- U.S. Patent No. 10,022,378, entitled "Antiviral Jak Inhibitors Useful in Treating or Preventing Retroviral and Other Viral Infections"
- U.S. Patent No. 9,662,332, entitled "Antiviral Jak Inhibitors Useful in Treating or Preventing Retroviral and Other Viral Infections"
- U.S. Patent No. 9,089,574, entitled "Antiviral Jak Inhibitors Useful in Treating or Preventing Retroviral and Other Viral Infections"

PCT/US2017/021551, entitled "Elimination of Hepatitis B Virus With Antiviral Agents"

- U.S. Provisional Application No. 62/305,865, entitled "Elimination of Hepatitis B Virus With Antiviral Agents"
- U.S. Serial No. 16/082747, entitled "Elimination of Hepatitis B Virus With Antiviral Agents"

PATENT REEL: 054**636** FRAME: 0552

RECORDED: 19/20/2020