503798806 04/26/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3845453

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
R. SCOTT MCIVOR	03/09/2016
LALITHA R. BELUR	03/30/2016
CAROLYN FAIRBANKS	03/02/2016

RECEIVING PARTY DATA

Name:	REGENTS OF THE UNIVERSITY OF MINNESOTA	
Street Address:	SUITE 600 MCNAMARA ALUMNI CTR.	
Internal Address:	200 OAK STREET SE	
City:	MINNEAPOLIS	
State/Country:	MINNESOTA	
Postal Code:	55455	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	14889750	

CORRESPONDENCE DATA

Fax Number:

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.

Email: request@slwip.com

Correspondent Name: SCHWEGMAN LUNDBERG & WOESSNER, P.A.

Address Line 1: P.O. BOX 2938

Address Line 4: MINNEAPOLIS, MINNESOTA 55402

ATTORNEY DOCKET NUMBER:	600.915US1
NAME OF SUBMITTER:	DIANA JOHNSON
SIGNATURE:	/Diana Johnson/
DATE SIGNED:	04/26/2016

Total Attachments: 10

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RECORDATION FORM COVER SHEET PATENTS ONLY

Atty Ref/Docket No.: 600.915US1 Patent and Trademark Office To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): Name: Regents of the University of Minnesota R. Scott McIvor, Lalitha R. Belur, Carolyn Fairbanks Street Address: Suite 600 McNamara Alumni Ctr. 200 Oak Street SE Additional name(s) of conveying party(ies) attached? []Yes [X]No City: Minneapolis State: MN Zip: 55455 Country: <u>United States of America</u> 3. Nature of conveyance: Additional name(s) & address(es) attached? []Yes [X]No [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: March 9, 2016, March 30, 2016, March 2, 2016 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) Serial No. 14/889,750 Additional numbers attached? []Yes [X]No 6. Total number of applications and patents involved: 1 5. Name and address of party to whom correspondence 7. Total fee (37 CFR 3.41):\$ 0.00 concerning document should be mailed: Name: Janet E. Embretson [[Enclosed [Authorized to be charged to deposit account 19-Address: 0743 Schwegman Lundberg & Woessner, P.A. P.O. Box 2938 8. Please charge any additional fees or credit any over Minneapolis, MN 55402--0938 payments to our Deposit Account No.: 19-0743 DO NOT USE THIS SPACE Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. /Janet E. Embretson/ Janet E. Embretson/Reg. No. 39,665 Name of Person Signing Total number of pages including cover sheet: 10

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks Mail Stop Assignment Recordation Services P.O. Box 1450 Alexandria, VA 22313-1450



University of Minnesota ASSIGNMENT

WHEREAS I, R. Scott McIvor, have invented certain new and useful improvements in ADENO-ASSOCIATED VIRUS MEDIATED GENE TRANSFER TO THE CENTRAL NERVOUS SYSTEM, for which application for Letters Patent of the United States has been made, said application being filed as follows: Utility application no. 14/889,750 on November 6, 2015 ("Application(s)");

Whereas, REGENTS OF THE UNIVERSITY OF MINNESOTA ("Assignee"), having offices at Suite 600 McNamara Alumni Ctr., 200 Oak Street SE, Minneapolis, MN 55455, is desirous of documenting the acquisition of the entire right, title and interest in and to said invention, said Application(s) and in, to and under any and all Letters Patent to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, and to the extent that I have not done so already via a prior agreement with the Assignee, or if I have already done so via a prior agreement with the Assignee then in confirmation of said prior agreement, I have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Assignee, its successors and assigns, the entire right, title and interest in and to the inventions set forth hereinabove and the entire right, title and interest in and to any and all Letters Patent of the United States and any foreign countries which may be granted therefor on the Application(s) including my rights under the Paris Convention for the Protection of Industrial Property, and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues of said Application(s) and Letters Patent that may be granted, including all rights to claim priority therefrom, and specifically including the right to enforce such Letters Patent in the name of Assignee and to recover damages for past infringement of the rights conveyed herein, the same to be held and enjoyed by Assignee for its own use and benefit and use and benefit of its successors and assigns to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.

I hereby authorize said Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent, in its own name if desired, in any and all foreign countries, and additionally to claim the filing date of any the Application(s) and/or otherwise take advantage of the provisions of the Paris Convention.

Attorney Docket No. 600.915US1 UM Case No. 20130291

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Upon said consideration I do hereby covenant and agree with said Assignee, its successors and assigns, that I will not execute in writing or do any act whatsoever conflicting with these presents, and that I or my executors or administrators will at any time upon request, without further or additional consideration, but at the expense of said Assignee, its successors and assigns, execute such additional writings and do such additional acts as said Assignee, its successors and assigns, may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, reissues or extended Letters Patent of the United States, or of any and all foreign countries on said invention, and in enforcing any rights occurring as a result of such application or patents, by giving testimony in any proceedings or transactions involving such applications or patents.

I hereby request the Honorable Commissioner of Patents and Trademarks to issue the
Letters Patent to Assignee in accordance with this instrument.
? th
IN WITNESS WHEREOF, I have hereunto set my hand on this day of
, 2016.
1 V flim III
R. Scott McIvor
A
STATE OF Minnes of)
)
COUNTY OF Henregian)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
On this 9 ⁺⁵ day of March, 2016, before me personally appeared
R. Scott McIvor, to me known to be the person described in and who executed the foregoing
instrument and acknowledged that s/he executed the same as his/her free act and deed.
IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of
my office, the day and year above written.
Notary Public
JEFFERY T. SCHAUB \$
Notary Public-Minnesota
My Commission Expires Jan 31, 2020 2

IN WITNESS WHEREOF, 2016 on be accepting this assignment.		et my hand on this day of Regents of the University of Minnesota
		Paul B. Savereide Senior Associate General Counsel per Presidential Delegation DA_070027
		per Presidential Delegation DA_0/002/
STATE OF MINNESOTA)	
COUNTY OF HENNEPIN)	
On this day of Paul B. Savereide, to me known to instrument and acknowledged that s	be the person of	, 2016, before me personally appeared lescribed in and who executed the foregoing same as his/her free act and deed.
IN WITNESS WHEREOF, my office, the day and year above w		affixed my official signature with the seal of
SARAH M. SHAFTMA Notary Public-Minneson My Commission Expires Jan 31, 2	a §	Motary Public



University of Minnesota ASSIGNMENT

WHEREAS I, Lalitha R. Belur, have invented certain new and useful improvements in ADENO-ASSOCIATED VIRUS MEDIATED GENE TRANSFER TO THE CENTRAL NERVOUS SYSTEM, for which application for Letters Patent of the United States has been made, said application being filed as follows: Utility application no. 14/889,750 on November 6, 2015 ("Application(s)");

Whereas, REGENTS OF THE UNIVERSITY OF MINNESOTA ("Assignee"), having offices at Suite 600 McNamara Alumni Ctr., 200 Oak Street SE, Minneapolis, MN 55455, is desirous of documenting the acquisition of the entire right, title and interest in and to said invention, said Application(s) and in, to and under any and all Letters Patent to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, and to the extent that I have not done so already via a prior agreement with the Assignee, or if I have already done so via a prior agreement with the Assignee then in confirmation of said prior agreement, I have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Assignee, its successors and assigns, the entire right, title and interest in and to the inventions set forth hereinabove and the entire right, title and interest in and to any and all Letters Patent of the United States and any foreign countries which may be granted therefor on the Application(s) including my rights under the Paris Convention for the Protection of Industrial Property, and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues of said Application(s) and Letters Patent that may be granted, including all rights to claim priority therefrom, and specifically including the right to enforce such Letters Patent in the name of Assignee and to recover damages for past infringement of the rights conveyed herein, the same to be held and enjoyed by Assignee for its own use and benefit and use and benefit of its successors and assigns to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.

I hereby authorize said Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent, in its own name if desired, in any and all foreign countries, and additionally to claim the filing date of any the Application(s) and/or otherwise take advantage of the provisions of the Paris Convention.

Attorney Docket No. 600.915US1 UM Case No. 20130291

PATENT

Upon said consideration I do hereby covenant and agree with said Assignee, its successors and assigns, that I will not execute in writing or do any act whatsoever conflicting with these presents, and that I or my executors or administrators will at any time upon request, without further or additional consideration, but at the expense of said Assignee, its successors and assigns, execute such additional writings and do such additional acts as said Assignee, its successors and assigns, may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, reissues or extended Letters Patent of the United States, or of any and all foreign countries on said invention, and in enforcing any rights occurring as a result of such application or patents, by giving testimony in any proceedings or transactions involving such applications or patents.

I hereby request the Honorable Commission Letters Patent to Assignee in accordance with this in	
IN WITNESS WHEREOF, I have hereunto	Lalitha R. Belur
STATE OF Minne scho) COUNTY OF Hennepin)	
COUNTY OF <u>Hennepin</u>	
On this day of day of Lalitha R. Belur, to me known to be the person description and acknowledged that s/he executed the IN WITNESS WHEREOF, I have hereunto a my office, the day and year above written.	same as his/her free act and deed.
	Notary Public 2
	TERESA L RITZ Notary Public Minnesota My Comm. Expires Jan 31, 2020

IN WITNESS WHEREOF, I have accepting this assignment.	we hereunto set my hand on this day of of Assignee Regents of the University of Minnesota
Rì	EGENTS OF THE UNIVERSITY OF MINNESOTA
	626361
	Paul B. Savereide
	Senior Associate General Counsel
	per Presidential Delegation DA_070027
STATE OF MINNESOTA) COUNTY OF HENNEPIN)	
	, 2016, before me personally appeared the person described in and who executed the foregoing executed the same as his/her free act and deed.
IN WITNESS WHEREOF, I ha my office, the day and year above written	ve hereunto affixed my official signature with the seal of n.
SARAH M. SHAFTMAN Notary Public-Minnesota My Commission Expires Jan 31, 2021	Notary Public

Attorney Docket No. 600.915US1 UM Case No. 20130291

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University of Minnesota ASSIGNMENT

WHEREAS I, Carolyn Fairbanks, have invented certain new and useful improvements in ADENO-ASSOCIATED VIRUS MEDIATED GENE TRANSFER TO THE CENTRAL NERVOUS SYSTEM, for which application for Letters Patent of the United States has been made, said application being filed as follows: Utility application no. 14/889,750 on November 6, 2015 ("Application(s)");

Whereas, REGENTS OF THE UNIVERSITY OF MINNESOTA ("Assignee"), having offices at Suite 600 McNamara Alumni Ctr., 200 Oak Street SE, Minneapolis, MN 55455, is desirous of documenting the acquisition of the entire right, title and interest in and to said invention, said Application(s) and in, to and under any and all Letters Patent to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, and to the extent that I have not done so already via a prior agreement with the Assignee, or if I have already done so via a prior agreement with the Assignee then in confirmation of said prior agreement, I have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Assignee, its successors and assigns, the entire right, title and interest in and to the inventions set forth hereinabove and the entire right, title and interest in and to any and all Letters Patent of the United States and any foreign countries which may be granted therefor on the Application(s) including my rights under the Paris Convention for the Protection of Industrial Property, and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues of said Application(s) and Letters Patent that may be granted, including all rights to claim priority therefrom, and specifically including the right to enforce such Letters Patent in the name of Assignee and to recover damages for past infringement of the rights conveyed herein, the same to be held and enjoyed by Assignee for its own use and benefit and use and benefit of its successors and assigns to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.

I hereby authorize said Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent, in its own name if desired, in any and all foreign countries, and additionally to claim the filing date of any the Application(s) and/or otherwise take advantage of the provisions of the Paris Convention.

Attorney Docket No. 600.915US1 UM Case No. 20130291

Upon said consideration I do hereby covenant and agree with said Assignee, its successors and assigns, that I will not execute in writing or do any act whatsoever conflicting with these presents, and that I or my executors or administrators will at any time upon request, without further or additional consideration, but at the expense of said Assignee, its successors and assigns, execute such additional writings and do such additional acts as said Assignee, its successors and assigns, may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, reissues or extended Letters Patent of the United States, or of any and all foreign countries on said invention, and in enforcing any rights occurring as a result of such application or patents, by giving testimony in any proceedings or transactions involving such applications or patents.

I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Assignee in accordance with this instrument.

O IN WITNESS WHEDEOE I have become	eat may hand on this 2 day of
IN WITNESS WHEREOF, I have hereunto , 2016.	set my hand on this day of
, 2010,	Carolyn Fairbanks
STATE OF MINNESOTA) COUNTY OF HENCH ()	
On this 2nd day of March Carolyn Fairbanks, to me known to be the person de	, 2016, before me personally appeared escribed in and who executed the foregoing
instrument and acknowledged that s/he executed the	
IN WITNESS WHEREOF, I have hereunto my office, the day and year above written.	affixed my official signature with the seal of
	nolak. Breen
	Notary Public
	NOLA K. BREEN \$
	NOTARY PUBLIC - MINNESOTA My Commission Expires
	January 31, 2019

IN WITNESS WHEREOF, I 2016 on behaccepting this assignment.		set my hand on this day of Regents of the University of Minnesota
	REGENTS OF	THE UNIVERSITY OF MINNESOTA
		Paul B. Savereide Senior Associate General Counsel per Presidential Delegation DA_070027
STATE OF MINNESOTA)	
)	
COUNTY OF HENNEPIN)	
On this 9h day of	March	, 2016, before me personally appeared
Paul B. Savereide, to me known to instrument and acknowledged that s/h	be the person	described in and who executed the foregoing
IN WITNESS WHEREOF, I my office, the day and year above wr		affixed my official signature with the seal of
SARAH M. SHAFTMAN Notary Public-Minnesota My Commission Expires Jan 31, 2021		Notary Public

Attorney Docket No. 600.915US1 UM Case No. 20130291