505722110 10/14/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHRISTOPHER S. PENET	02/09/2017
SEBHAT GEBRECHRISTOS	02/09/2017
CAROLINE HELEN BEST	02/09/2017
DEBORAH S. WINETZKY	02/09/2017
ROBERT DANIEL LITTLE	02/09/2017
JESSICA SPEARS	02/09/2017
CHRISTOPHER SCHULER	02/09/2017

RECEIVING PARTY DATA

Name:	BIO-CAT, INC.
Street Address:	9117 THREE NOTCH ROAD
City:	TROY
State/Country:	VIRGINIA
Postal Code:	22974

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16601298

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.

Phone: 213.443.7506

Email: daniel.wityak@arentfox.com, patentdocket@arentfox.com

Correspondent Name: ARENT FOX LLP

Address Line 1: 555 WEST FIFTH STREET, 48TH FLOOR LOS ANGELES, CALIFORNIA 90013

ATTORNEY DOCKET NUMBER:	037838.00039
NAME OF SUBMITTER:	DANIEL WITYAK
SIGNATURE:	/Daniel Wityak/
DATE SIGNED:	10/14/2019

PATENT REEL: 050709 FRAME: 0023

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Total Attachments: 2 source=Assignment#page1.tif source=Assignment#page2.tif

PATENT REEL: 050709 FRAME: 0024

Docket No. 037838.00005

WORLDWIDE ASSIGNMENT

IN CONSIDERATION of the sum of C	One Dollar (\$1.00 US), and of other good and valuable consideration
paid to the undersigned inventor(s) (hereinafter	ASSIGNOR) by

IN CONSIDERATION of the sum of One paid to the undersigned inventor(s) (hereinafter AS		and of other good a	ind valuable consideration
	BIO-CAT, INC.		
	Three Notch Road		
Tro	y, Virginia 22974		
(hereinafter ASSIGNEE), the receipt of which is h hereby sells, assigns and transfers to ASSIGNEE to to sue for past infringement, if any, and all rights p	he entire and exclusive ursuant to 35 U.S.C.	ve right, title and in § 154, to the invent	nterest, including the right
BACILLUS COMPO	OSITIONS AND USE	STHEREOF	
for which application for Letters Patent of the Unit	ed States was:		
filed on October 3, 2016	Serial No.:	62/403,467	
(Arent Fox LLP is hereby authorized to insert the sea	ries code, serial number an	d/or filing date, when i	cnown)
and all Letters Patent of the United States and its obtained therefor on said application or any n continuation-in-part, renewal, substitute, reissue priority thereto, including future inventions or impgranted.	on-provisional, inter or reexamination the	national, foreign, ereof, and any otl	continuation, divisional, her applications claiming
The ASSIGNOR agrees to execute all provisional, international, foreign, continuing, divisional and any other applications claiming priori execute separate assignments in connection with expedient.	sional, continuation-in ty thereto, including	n-part, reissue or re future inventions	eexamination applications or improvements, also to
The ASSIGNOR agrees to execute all p post-grant review, <i>inter partes</i> review, litigation, of application or any non-provisional, international, reexamination thereof or Letters Patent or reissue p thereto, including future inventions or improvement in obtaining and producing evidence and proceed partes review, litigation, or other legal proceeding.	or other legal proceed foreign, continuation patent issued thereon, nts, and to cooperate	ling which may be, divisional, contine and any other app with the ASSIGN	e declared concerning this nuation-in-part, reissue or lications claiming priority EE in every way possible
IN WITNESS WHEREOF, the undersigned	d inventor(s) has (hav	ve) affixed his/her/	their signature(s).
			. 1
	Christopher	S. PENET	2/9/17
(SIGNATURE)	(TYPE)	NAME)	(DATÉ)
	Sebhat GEBR	FCHRISTOS	
/ (SIGNATURE)	(TYPE)		(DATE)
La A. Call A	•	·	
and tempes	Caroline H		219/17
(SIGNATURÉ)	(TYPE)	NAME)	(DATE)
Deborato S Winstibul	Deborah S. V	WINETZKY	2/2/2017
(SIGNATURE)	(TYPE)		(DATE)
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January) and the same of the s	Robert Dan		2/9/11
(SIGNATURE)	(TYPE 1	NAME)	(DATE)
	Jessica S	PEARS	
(SIGNATURE)		NAME)	(DATE)

[Signature(s) of Assignor(s)]

(SIGNATURE)

PATENT

Christopher SCHULER (TYPE NAME)

REEL: 050709 FRAME: 0025

Docket No. 037838.00005

WORLDWIDE ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00 US), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by

BIO-CAT, INC.	
9117 Three Notch Road	
Troy, Virginia 22974	
(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR agrees to and hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest, including the right to sue for past infringement, if any, and all rights pursuant to 35 U.S.C. §154, to the invention titled:	
BACILLUS COMPOSITIONS AND USES THEREOF	

for which application for Letters Patent of the United States was:

filed on October 3, 2016 Serial No.: 62/403,467

(Arent Fox LLP is hereby authorized to insert the series code, serial number and/or filing date, when known)

and all Letters Patent of the United States and its territorial possessions and in any and all foreign countries to be obtained therefor on said application or any non-provisional, international, foreign, continuation, divisional, continuation-in-part, renewal, substitute, reissue or reexamination thereof, and any other applications claiming priority thereto, including future inventions or improvements, for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with application and any non-provisional, international, foreign, continuing, divisional, continuation-in-part, reissue or reexamination applications thereof and any other applications claiming priority thereto, including future inventions or improvements, also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any derivation proceeding, post-grant review, *inter partes* review, litigation, or other legal proceeding which may be declared concerning this application or any non-provisional, international, foreign, continuation, divisional, continuation-in-part, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon, and any other applications claiming priority thereto, including future inventions or improvements, and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such derivation proceeding, post-grant review, *inter partes* review, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s),

Signature(s)		Christopher S. PENET	
of Assignor(s)]	(SIGNATURE)	(TYPE NAME)	(DATE)
٠.	Seldati (Se	Sebhat GEBRECHRISTOS	2/9//2
	(SIGNATURE)	(TYPE NAME)	(DATE)
_		Caroline Helen BEST	
	(SIGNATURE)	(TYPE NAME)	(DATE)
		Deborah S. WINETZKY	
-	(SIGNATURE)	(TYPE NAME)	(DATE)
		Robert Daniel LITTLE	
	(SIGNATURE)	(TYPE NAME)	(DATE)
		Jessica SPEARS	2/9/17
	(SIGNATURE)	(TYPE NAME)	(DATE)
/_	/	Christopher SCHULER	
1	(SIGNATURE)	(TYPE NAME)	(DATE)

PATENT REEL: 050709 FRAME: 0026

RECORDED: 10/14/2019