506282742 10/01/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6329489

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
STEVEN W. SHUEY	03/08/2019
MUKESH C. SHAH	02/28/2019
WEIMING QIU	02/28/2019
HELEN S.M. LU	02/28/2019
ZHENGZHENG HUANG	02/28/2019

RECEIVING PARTY DATA

Name:	DUPONT INDUSTRIAL BIOSCIENCES USA, LLC
Street Address:	974 CENTRE ROAD
City:	WILMINGTON
State/Country:	DELAWARE
Postal Code:	19805
Name:	E I DU PONT DE NEMOURS AND COMPANY
Name: Street Address:	E I DU PONT DE NEMOURS AND COMPANY 974 CENTRE ROAD
Street Address:	974 CENTRE ROAD

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	16465385	

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: 3029992371

Email: janice.soulas@dupont.com

Correspondent Name: DUPONT

Address Line 1: 974 CENTRE ROAD

Address Line 4: WILMINGTON, DELAWARE 19805

ATTORNEY DOCKET NUMBER: CL6574-US-PCT

PATENT REEL: 053941 FRAME: 0883

506282742

NAME OF SUBMITTER:	JANICE SOULAS
SIGNATURE:	/JANICE SOULAS/
DATE SIGNED:	10/01/2020
Total Attachments: 5	·

Total Attachments: 5

source=CL6574WOPCT_Assignment _Huang to IB LLC_Signed#page1.tif source=CL6574WOPCT_Assignment _Lu to IB LLC_022719 Signed#page1.tif source=CL6574WOPCT_Assignment _Qui to IB LLC_Signed#page1.tif source=CL6574WOPCT_Assignment_Shah to EID_executed_030119#page1.tif source=CL6574WOPCT_Assignment_Shuey to EID_executed 030819#page1.tif

	<u> WORLDWIDE ASSIGN</u>		
l, the undersigned <u>ZHENGZHENG HUANG</u> , he			
POLYSACCHARIDE DERIVATIVES AND COMPOSITION		the subject matter of which is	s described in the application
for patent (Attorney Docket No: CL6574-WO-PCT	1		
declaration executed on			
	: Application Serial No.	, filed or	,
PCT Application Serial No. PCT/US17/60		December 14, 2017	_
which claim(s) its earliest priority to Application Se			December 16, 2016
For valuable consideration, the receipt and			fulfillment of my pre-existing
obligation of assignment to assignee, which is hereb I. Sell, assign, and transfer unto DUPONT INDUSTRIA			company baroin referred to
as the assignee, and to assignee's successors and as		C, a Delaware illilited liability	company, nerem referred to
(A) the entire right, title, and interest in and to	_	plication(s) for Letters Paten	t ("Patent"). (2) any priority
rights derived from such aforesaid application(s) for			
Property ("International Convention") and any oth			
countries of the International Convention or other			
(3) any and all of my inventions, whether joint or			
arising out of such aforesaid application(s) for Pater			
n any country whatsoever, including all provisional			
part, international and convention applications base			
Inventions, (5) any and all patents for any such Invextensions of any patent based in whole or in part t			
the entire right to (1) file such applications in its na			
Convention or any other treaty or understanding, (
and Trademarks of the United States of America and			
transfer all of said patents to said assignee in accon			
and damages for any and all infringements thereof,			
said patents may be granted, as fully and entirely a	s the same would have	been held and enjoyed by	the undersigned without this
assignment;			
II. Agree, whenever assignee asks, without further c			
(A) to communicate to said assignee, its successiventions or the rights described above, (B) to test			
above, the location of that testimony to be in the co			
should my country of residence prohibit such testim			
by said assignee, its successors, assigns and legal			
ncluding petitions, specifications, oaths, assignme			
equested by said assignee and (D) generally to o			
epresentatives to obtain, maintain, defend and enf	orce patent protection	for such Inventions and/or se	ecure title to such Inventions
with assignee;			
II. Represent, warrant and covenant that I have the			
s not pre-dated by any grant, license, or other right			_ ,
 V. Agree that my grants and obligations herein sha assigns; and 	iii aiso bind aii of my n	eirs, executors, administrato	rs, legal representatives, and
 Agree that an authorized representative of as 	sianee is hereby aran	ted the nower to insert in	this assignment any further
dentification which may be necessary or desirable	to comply with the rul	es of the U.S. Patent and Tra	demark Office or the natent
office of any other country for recordation of thi			
egarding application number and filing date when k			
n Witness Whereof, I have executed this Worldwide	Assignment on the da	te indicated by my hand.	
	and the second		
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ZHENGZHENG HUANG		<u> </u>	28-2017
Name of Inventor 2	Signature of Inventor	Date	28-2019

PATENT REEL: 053941 FRAME: 0885

	WOKLDWIDE ASSIGN	IVIEIVI	
I, the undersigned HELEN S M LU, herel			
<u>DERIVATIVES AND COMPOSITIONS COM</u> (Attorney Docket No: <u>CL6574-WO-PCT</u>)		ter or which is described in	the application for patent
declaration executed on			
International Procedure	Patent Application Serial No.	, filed on	
PCT Application Serial No. PC	- •	December 14, 2017	
which claim(s) its earliest priority to App			- December 16, 2016 .
For valuable consideration, the re			
obligation of assignment to assignee, which		· -	
I. Sell, assign, and transfer unto DUPONT I	- ·	-	company, herein referred to
as the assignee, and to assignee's successe			
(A) the entire right, title, and interes			
rights derived from such aforesaid applica	•		
Property ("International Convention") ar			
countries of the International Convention			
(3) any and all of my inventions, whether			
arising out of such aforesaid application(s			
in any country whatsoever, including all p part, international and convention applica			
Inventions, (5) any and all patents for an	·		
extensions of any patent based in whole of			
the entire right to (1) file such application			
Convention or any other treaty or unders			
and Trademarks of the United States of A	merica and any counterpart in a	ny other patent office being he	ereby authorized to issue or
transfer all of said patents to said assigne	e in accordance herewith, and (enforce said patents and to	sue for and recover profits
and damages for any and all infringement			
said patents may be granted, as fully and	entirely as the same would have	e been held and enjoyed by th	ne undersigned without this
assignment;			
II. Agree, whenever assignee asks, withou	•		
(A) to communicate to said assignee,		•	
Inventions or the rights described above,			
above, the location of that testimony to b should my country of residence prohibit s			
by said assignee, its successors, assigns			
including petitions, specifications, oaths,		· ·	
requested by said assignee and (D) gen			
representatives to obtain, maintain, defer			
with assignee;		·	
III. Represent, warrant and covenant that	I have the full right and lawful a	uthority to make this assignme	ent, that such assigned right
is not pre-dated by any grant, license, or o		* * *	-
IV. Agree that my grants and obligations	herein shall also bind all of my h	eirs, executors, administrators	s, legal representatives, and
assigns; and			
V. Agree that an authorized representa	=	•	
identification which may be necessary or			
office of any other country for recordat		ng the power to insert on ti	ns assignment information
regarding application number and filing da		to indicated by my band	
In Witness Whereof, I have executed this \	wonawiae Assignment on the da		
	\mathcal{M} .		110
HELEN S M LU	/Au	- 21	28/19
Name of Inventor 1	Signature of Inventor	Date	28/19

WORLDWIDE ASSIGNMENT

	WUKLDWIDE ASSIGN		
I, the undersigned WEIMING QIU, hereby dec			
<u>DERIVATIVES AND COMPOSITIONS COMPRISIN</u> (Attorney Docket No: <u>CL6574-WO-PCT</u>)	vid SAIVIE the subject mat	ter of which is desci	ned in the application for patent
Proving .			
declaration executed on	thank Application Could No		filed an
	tent Application Serial No.		filed on,
PCT Application Serial No. PCT/US1		December 14, 2017	
which claim(s) its earliest priority to Application			filed on December 16, 2016.
For valuable consideration, the receipt		•	and in fulfillment of my pre-existing
obligation of assignment to assignee, which is help. Sell, assign, and transfer unto DUPONT INDUS	· -	~	liability company horoin referred to
as the assignee, and to assignee's successors an		c, a Delaware illinteu	nability company, herein referred to
(A) the entire right, title, and interest in a		plication(s) for Letters	s Patent ("Patent"). (2) any priority
rights derived from such aforesaid application(s			
Property ("International Convention") and any			
countries of the International Convention or ot	•	•	
(3) any and all of my inventions, whether join			
arising out of such aforesaid application(s) for P			
in any country whatsoever, including all provisi	onal, non-provisional, divis	ional, renewal, substit	cute, continuation, continuations-in-
part, international and convention applications	The state of the s	· = '	
Inventions, (5) any and all patents for any sucl			
extensions of any patent based in whole or in p	,		
the entire right to (1) file such applications in i			
Convention or any other treaty or understanding			
and Trademarks of the United States of America			
transfer all of said patents to said assignee in a and damages for any and all infringements the			
said patents may be granted, as fully and entire			
assignment;	ery as the same would have	e been new and enjoy	ed by the undersigned without this
 Agree, whenever assignee asks, without furth 	er compensation but at as	signee's expense for a	ctual and reasonable costs incurred.
(A) to communicate to said assignee, its su	•	-	
Inventions or the rights described above, (B) to			
above, the location of that testimony to be in the			=
should my country of residence prohibit such te	estimony, (C) to execute all	applications, papers o	r instruments necessary or required
by said assignee, its successors, assigns and le	egal representatives, to ca	rry into effect any of	i the provisions of this instrument,
including petitions, specifications, oaths, assig	nments, disclaimers, and	lawful affidavits in f	orm and substance which may be
requested by said assignee and (D) generally			
representatives to obtain, maintain, defend and	l enforce patent protection	for such Inventions a	nd/or secure title to such Inventions
with assignee;			
III. Represent, warrant and covenant that I have	' = '	· · · · · · · · · · · · · · · · · · ·	
is not pre-dated by any grant, license, or other r			-
IV. Agree that my grants and obligations herein assigns; and	i Shali aiso binu ali oi iny n	ens, executors, aurin	iistrators, legai representatives, and
V. Agree that an authorized representative of	of assignee is hereby gran	ted the nower to in-	sert in this assignment any further
identification which may be necessary or desira			
office of any other country for recordation of			
regarding application number and filing date wh	_	· ·	Ü
In Witness Whereof, I have executed this World		te indicated by my ha	nd.
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	7.1	121.	, ,
WEIMING QIU	Win	We.	2/28/2019
Name of Inventor 3	Signature of Inventor	 	$\frac{2/28/2019}{\text{Date}}$
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	WORLDWIDE ASSIGNIVIENT	
• • • • • • • • • • • • • • • • • • • •		ention entitled AMPHIPHILIC POLYSACCHARIDE
(Attorney Docket No: <u>CL6574-WO-PCT</u>)	sing SAME the subject matter of wh	ich is described in the application for patent
declaration executed on		61.
	Patent Application Serial No.	, filed on,
PCT Application Serial No. PCT/U		er 14, 2017
which claim(s) its earliest priority to Applica		, filed on December 16, 2016.
	· · · · · · · · · · · · · · · · · · ·	nowledged, and in fulfillment of my pre-existing
obligation of assignment to assignee, which is		
	·	ration organized and existing under the laws of
		of business at Chestnut Run Plaza, 974 Centre
		ignee, and to assignee's successors and assigns,
) for Letters Patent ("Patent"), (2) any priority
• •	•	onal Convention for the Protection of Industrial
		intellectual property for any and all member
		ng rights in any and all provisional applications,
• • • • • • • • • • • • • • • • • • • •		application(s) for Patent, and/or related to or
- · · · · · · · · · · · · · · · · · · ·		applications for Patent for any such Inventions
		ewal, substitute, continuation, continuations-in-
		aforesaid application(s) for Patent and/or such
		ver, including any and all reexams, reissues and
· ·) for Letters Patent and/or such Inventions; (B)
		applications under the aforesaid International ts name or mine, the Commissioner of Patents
		atent office being hereby authorized to issue or
		said patents and to sue for and recover profits
		, to the full end of the term or terms for which
		d and enjoyed by the undersigned without this
assignment;	mely as the same would have been he	a and enjoyed by the undersigned without this
-	rther compensation but at assignee's ex	pense for actual and reasonable costs incurred,
		tatives, any facts known to me respecting such
	_ · · · · - · · · - · · · · · · · · · ·	pecting such inventions or the rights described
		nearest country in which such testimony is legal
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		ffect any of the provisions of this instrument,
	- • • • • • • • • • • • • • • • • • • •	idavits in form and substance which may be
		aid assignee, its successors, assigns, and legal
		nventions and/or secure title to such inventions
with assignee;		-
III. Represent, warrant and covenant that I ha	eve the full right and lawful authority to	make this assignment, that such assigned right
is not pre-dated by any grant, license, or other	r right heretofore given by me to any pa	irty other than the assignee hereto;
IV. Agree that my grants and obligations here	ein shall also bind all of my heirs, exect	itors, administrators, legal representatives, and
assigns; and		
V. Agree that an authorized representative	e of assignee is hereby granted the p	ower to insert in this assignment any further
•		J.S. Patent and Trademark Office or the patent
office of any other country for recordation	of this Assignment, including the po	wer to insert on this assignment information
regarding application number and filing date v	when known.	
In Witness Whereof, I have executed this Wor	ldwide Assignment on the date indicate	d by my hand.
	-1.	1 /
MUKESH C SHAH	Mukesh. C. Shah	$\frac{2/28/2019}{\text{Date}}$
Name of Inventor 4	Signature of Inventor	Date

WORLDWIDE ASSIGNMENT

l, the ur	ndersigned STEVEN W SHUEY,	nereby declare that	I am an invento	or of an inver	ntion entitled <u>AMPHIPHILIC</u>	POLYSACCHARIDE ication for patent
DERIVA"	rives and compositions co by Docket No: <u>CL6574-WO-PCT</u>	MPRISING SAIME O	ne subject mat	ret or word	1 13 deserbee to the appl	70000777 707
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	International Procedure		filed on	December		
\boxtimes	PCT Application Serial No.	PC1/US17/00393		December	, filed on Decemb	er 16, 2016
which	claim(s) its earliest priority to A For valuable consideration, the	possint and adequa	acy of which is t	nereby ackno	wledged, and in fulfillment	of my pre-existing
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War Charl	and prolouges in the United St	ates of America and	having its orin	cipal place o	of business at unestitut kun	i Plaza, 974 Centre
0	a pay sare Malmington Dalas	ware 19205 USA he	rein referred to	as the assig	inee, and to assignee s succ	essors and assigns,
£ A-A	the entire right title and inter	rest in and to: (1) t	he aforesaid ap	plication(s)	for Letters Patent (Patent	1, (z) any prionty
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Propert	y ("International Convention")	and any other tre	aty or understa	anding for it	reliectual property for an	cional annlications
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(3) any	and all of my inventions, whe out of such aforesaid application	ther joint or sole, t	rentions"\ (A)	no and all a	applications for Patent for a	inv such Inventions
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the ent	ien vight to (1) file such amplica	tions in its name of	t in my name, (tile such a 	applications under the arou	esaid international
Conven	tion or any other treaty or und	lerstanding, (3) hav	e said patents §	granted in its	s name or mine, the comin	near at Larente
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transfe	r all of said patents to said assig	gnee in accordance	herewith, and	(4) enforce s	to the full and of the term	or terms for which
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	and as the rights described ahe	ove (B) to testify in	any legal proc	eeding respi	ecting such inventions of u	ue uguts described
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repres	entatives to obtain, maintain, de	efend and enforce p	atent protectio	n tor such in	ventions and/or secure title	a to socii invendona
with as	signee;	والمراجع المراجع	and loughed	nuthority to	make this assignment that	such assigned right
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is not p	pre-dated by any grant, license, tree that my grants and obligation	or other right hereto	s bind all of my	heirs, execu	tors, administrators, legal r	epresentatives, and
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assigns	eas that an authorized represe	entative of assigne	e is hereby gra	nted the po	ower to insert in this assig	inment any further
كالمساحلة	insting which may be peressary	or desirable to con	nply with the ri	ules of the U	I.S. Patent and Trademark (Office of the batery
office	of any other country for reco	rdation of this Ass	ignment, includ	ling the pov	wer to insert on this assig	inment information
regard	ing application number and filin	g date when known				
In Witi	ness Whereof, I have executed t	his Worldwide Assig	nment on the o	late indicate	d by my hand.	
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	Name of Inventor 5	Sign	aidic of Hiveill	. 1	2.500	

PATENT

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