PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANDRÉ BANIER DE HAAN	02/21/2014
Jan VAN BREUGEL	02/20/2014
Paulus Loduvicus Johannes VAN DER WEIDE	02/21/2014
Peter Paul JANSEN	02/21/2014
JOSÉ MARÍA VIDAL LANCIS	02/24/2014
AGUSTÍN CERDÀ BARÓ	02/21/2014

RECEIVING PARTY DATA

Name:	Purac Biochem B.V.	
Street Address: Arkelsedijk 46		
City: Gorinchem		
State/Country: Netherlands		
Postal Code: NL-4206 AC		

PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	14238666		

CORRESPONDENCE DATA

Fax Number: (703)836-2787

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

US Mail.

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ATTORNEY DOCKET NUMBER:	160391
NAME OF SUBMITTER:	LAURA JOELL
SIGNATURE:	/Laura L. Joell/James A. Oliff/
DATE SIGNED:	03/12/2014

Total Attachments: 4

502718251 REEL: 032417 FRAME: 0001

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PATENT REEL: 032417 FRAME: 0002

ASSIGNMENT

	Insert	(1)	André Banier DE HAAN	(2)	Jan VAN BREUGEL			
(1-8)	Legal Name(s)	(3)	Paulus Loduvicus Johannes VAN DER WEIDE	(4)	Peter Paul JANSEN			
	of Inventor(s)	(5)	José Maria VIDAL LANCIS	(6)	Agustin CERDÁ BARÔ			
		(7)		(8)				
		the un	sideration of the sum of one dollar (\$1.00) and other dersigned, the receipt and sufficiency of which are h, and hereby does assign, transfer and set over to					
(9)	Insert Name of Assignce	(9)) PURAC BIOCHEM B.V.					
(18)	Insert Address of Assignee	(10)	(10) Arkelsedijk 45, NL-4206 AC Gorinchem, Netherlands					
(11)	Insert Identification	the ent invent contin	after designated as the Assignee) and Assignee's he ire right, title and interest for the United States of A ion, and in all applications for patent including any a nation, international, substitute and reissue application examination certificates that may be granted on the RECOVERY OF CARBOXYLIC ACID FROM	merica a und all p ou(s), an uvention	is defined in 35 U.S.C. §100, in the revisional, non-provisional, divisional, ad all Letters Patent, extensions, reissues a known as			
• ,	such as Title, Case Number, or Foreign		PRECIPITATION USING HYDROCHLORIC ACID, USEFUL FOR FERMENTATION					
	Application Number		BROTH WORK-UP					
		(Attor	ney Docket No. 160391), (led on o	even date herewith or as			
(12)	Alternative	(12)	U.S. Application Number 14/238.666	í				
	Identification for							
	filed applications	filed	March 12, 2014					
declared and gold claims of	tte separate assignments in a 2) Each undersigned agreed dencerning any application ag forward with such interfe 3) Each undersigned agree or provisions of the Internation	connection es to exect or patent rence or p es to exect onal Conv es to perfe	ute all papers and documents and perform any act rention for Protection of Industrial Property or sim arm all affirmative acts which may be necessary to	e may if erference ee in ev which m ilar agre	eem necessary, e or post-grant proceeding which may be ery way possible in obtaining evidence may be necessary in connection with ements.			

5) Bach undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignce, as Assignee of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.

6) Each undersigned hereby grants the firm of OLIFF PLC the power to insert on this assignment any further identification that may be

necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

			Martin Commission Commission Commission Commission Commission Commission Commission Commission Commission Comm	
Date	21 FEB 2014	Inventor Signature		(SEAL)
Date	20 FEB 2014	Inventor Signature	- January 19 1	(SEAL)
Date		Inventor Signature	The state of the s	(SEAL)
Date	21 66 2014	Inventor Signature	Al July	(SEAL)
Date	Sugar-inak - makanananananananan	Inventor Signature		(SEAL)
Date	·	Inventor Signature		(SEAL)
Date		Inventor Signature	<u></u>	(SEAL)
Date		Inventor Signature		(SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

> **PATENT REEL: 032417 FRAME: 0003**

Date	213 Feb. 2014	Witness	194X	Comment of
Date	OLT FL DOWN	White.	- V V V	
DATE		Ay HINCON	and the state of t	

ASSIGNMENT

	Insert	(1)	André Banier DE HAAN	(2)	Jan VAN BREUGEL		
(1-8)	Legal Name(s)	(3)	Paulus Loduvicus Johannes VAN DER WEIDE	(4)	Peter Paul JANSEN		
	of Inventor(s)	(5)	José Maria VIDAL LANCIS	(6)	Agustín CERDÁ BARÓ		
		(7)		(8)			
		the unc	ideration of the sum of one dollar (\$1.00) and other lessigned, the receipt and sufficiency of which see h and hereby does assign, transfer and set over to	good ar	d valuable consideration paid to each of knowledged, each undersigned agrees to		
(9)	Insert Name of Assigner	(9)	PURAC BIOCHEM B.V.	AC BIOCHEM B.V.			
(10)	Insert Address of Assignee	(10)	Arkelsedijk 46, NL-4206 AC Gerinchem, Nether	lunds			
		the cut inventi contin	after designated as the Assignee) and Assignee's hei fre right, title and interest for the United States of Ar on, and in all applications for patent heluding any a ration, international, substitute and reissue application examination certificates that may be granted on the i	nerica n nd nii p: u(s), an	is defined in 35 U.S.C. § 100, in the ravisional, non-provisional, divisional, d all Letters Patent, extensions, reisaucs		
(11)	Insert Identification such as Title, Case	(11)	RECOVERY OF CARBOXYLIC ACID FROM	HER I	MAGNESIUM SALTS BY		
	Number, or Foreign Application Number		PRECIPITATION USING HYDROCHLORIC A	cw, us	SEPUL FOR FERMENTATION		
	Whinestian tennace		BROTH WORK-UP				
		(Attori	ney Docket No. <u>160391</u>), ii	led on e	ven date herewith or as		
(12)	Alternative	(12)	U.S. Application Number 14/238.666				
	Identification for				······································		
	filed applications	filed	March 12, 2014	******	·····		
end goi claims of recomming resulting entire in this assi	ng forward with such interfe 3) Each undersigned agre- or provisions of the Internati 4) Each undersigned agre- ination a grant of a valid Uni 5) Each undersigned auth g from said application(s) to iderest herein assigned, and t gament is binding on Assign 6) Each undersigned here ry or desirable in order to co	rence or pages to execu- const Convices to perfo- ited States and the said A dust the or s- mor and As by grants ti mply with	ite all papers and documents and perform any act v ention for Protection of Industrial Property or simi rm all affirmative acts which may be necessary to	chich m ler ugre obtain, i Tradem canals i canent(catalive ssignanc k Offic	ay be necessary in connection with ements. maintain or confirm by reissue or ark Office to Issue any and all patents that he or she has full right to convey the a) in conflict berewith, and agrees that s. nt any further identification that may be e for recordation of this document.		
Date			Inventor Signature		(SEAL)		
Date		***************************************	Inventor Signature	*********	(SEAL)		
Date	A STATE OF THE PARTY OF THE PAR		Inventor Signature	[2	(SEAL)		
Date		^	Inventor Signature		(SEAL)		
Date	24.62.7014		Inventor Signature	16	(SEAL)		
Date	21.02.201	4	Inventor Signature		(SEAU)		
Date	,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Inventor Signature		(SEAL)		
Date			Inventor Signature		(SEAL)		

This assignment should preferably be signed before; (a) a Notery Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

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PATENT REEL: 032417 FRAME: 0005

Vate.	21 /02 / 2019	Witness	Control of the Contro
Date	24/a2/2015	Witness	