502610634 12/20/2013

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2657084

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HUANGPIN B. HSIEH	12/18/2013
FRANCISCO E. TORRES	12/18/2013
CORY D. LANCASTER	12/18/2013
ARMIN R. VOLKEL	12/18/2013
ASHUTOSH KOLE	12/18/2013
KAI MELDE	12/19/2013

RECEIVING PARTY DATA

Name:	PALO ALTO RESEARCH CENTER INCORPORATED
Street Address:	3333 COYOTE HILL ROAD
City:	PAL ALTO
State/Country:	CALIFORNIA
Postal Code:	94304

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14136461

CORRESPONDENCE DATA

Fax Number: (216)363-9001 Phone: 216-363-9000

Email: USPTO@FAYSHARPE.COM

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

Correspondent Name: FAY SHARPE LLP / XEROX - PARC Address Line 1: 1228 EUCLID AVENUE, 5TH FLOOR

Address Line 2: THE HALLE BUILDING Address Line 4: CLEVELAND, OHIO 44115

ATTORNEY DOCKET NUMBER:	20130737US01-XER3055US01

REEL: 031829 FRAME: 0856

PATENT

502610634

NAME OF SUBMITTER:	MARK S. SVAT
Signature:	/Mark S. Svat/
Date:	12/20/2013
Total Attachments: 4 source=XERZ-203055US01-Assignment-20 source=XERZ-203055US01-Assignment-20 source=XERZ-203055US01-Assignment-20 source=XERZ-203055US01-Assignment-20	DEC13#page2.tif DEC13#page3.tif

ASSIGNMENT

The undersigned is/are the named inventor(s) (the "Inventor(s)") on a United States patent application entitled RECYCLING ACTIVATED SLUDGE BY HYDRODYNAMIC SEPERATOR (HDS) TO ENABLE HIGH MLSS BIOREACTOR TO PROCESS HIGH INFLUENT FLOW AND/OR HIGH STRENGTH WASTEWATER (the "Application") for inventions disclosed or claimed therein (the "Invention(s)"), which Application:

 ☑ is being executed concurrently herewith, ☑ was first executed on ☑ was filed on as Application Number ☑ claims the benefit of U.S. Provisional Application 	on(s) No(s). filed
Palo Alto Research Center Incorporated, a Delaware Corassigns, and its legal representatives ("PARC"), is entinvention(s), and the full cooperation of the Inventor(s).	
For valuable consideration, the receipt of which is hereby assign(s), and transfer(s) to PARC the entire and exclusive the Invention(s), in and for the United States, its territapplications, patents, design registrations and publications all priority rights under all present or future conventions at which priority is claimed in the Application; and	ve right, title and interest in the Application and tories, and all foreign countries, including all obtained or derived therefrom, world wide, and
 request the U.S. Commissioner of Patents to issue all agree that PARC may apply for and receive all foreign agree to execute all papers and take all actions n requested by PARC; and authorize PARC to subsequently enter the Applicati entered above. 	n Letters Patent thereon; lecessary or desirable in connection therewith on Number on this Assignment, if not already
many Tours	12/18/2013
Huangpin B. Hsieh	DATE
Francisco E. Torres	DATE
Cory D. Lancaster	DATE
Armin R. Volkel	DATE
Ashutosh Kole	DATE
Kai Melde	DATE

ASSIGNMENT

The undersigned is/are the named inventor(s) (the "Inventor(s)") on a United States patent application entitled RECYCLING ACTIVATED SLUDGE BY HYDRODYNAMIC SEPERATOR (HDS) TO ENABLE HIGH MLSS BIOREACTOR TO PROCESS HIGH INFLUENT FLOW AND/OR HIGH STRENGTH WASTEWATER (the "Application") for inventions disclosed or claimed therein (the "Invention(s)"), which Application:

 ☑ is being executed concurrently herewith, ☐ was first executed on ☐ was filed on as Application Number ☐ claims the benefit of U.S. Provisional Application 	i(s) No(s). filed .
Palo Alto Research Center Incorporated, a Delaware Corpassigns, and its legal representatives ("PARC"), is entitlemention(s), and the full cooperation of the Inventor(s).	oration, on behalf of itself, its successors and tled to all rights in the Application and the
For valuable consideration, the receipt of which is hereby assign(s), and transfer(s) to PARC the entire and exclusive the Invention(s), in and for the United States, its territorapplications, patents, design registrations and publications all priority rights under all present or future conventions and which priority is claimed in the Application; and	ories, and all foreign countries, including all obtained or derived therefrom, world wide, and
 request the U.S. Commissioner of Patents to issue all agree that PARC may apply for and receive all foreign agree to execute all papers and take all actions nearequested by PARC; and authorize PARC to subsequently enter the Application entered above. 	ecessary or desirable in connection therewith
Huangpin B. Hsieh	DATE
Francisco E. Torres	Dec. 18, 2013
Francisco E. Torres	DATE
Cory D. Lancaster	DATE
Armin R. Volkel	DATE
Ashutosh Kole	DATE
Kai Melde	DATE

ASSIGNMENT

The undersigned is/are the named inventor(s) (the "Inventor(s)") on a United States patent application entitled RECYCLING ACTIVATED SLUDGE BY HYDRODYNAMIC SEPERATOR (HDS) TO ENABLE HIGH MLSS BIOREACTOR TO PROCESS HIGH INFLUENT FLOW AND/OR HIGH STRENGTH WASTEWATER (the "Application") for inventions disclosed or claimed therein (the "Invention(s)"), which Application:

 is being executed concurrently hereven in the second on th	umber .
claims the benefit of U.S. Provisional	Application(s) No(s). filed .
Palo Alto Research Center Incorporated, a Del assigns, and its legal representatives ("PARGINVENTION), and the full cooperation of the Investion	aware Corporation, on behalf of itself, its successors and C"), is entitled to all rights in the Application and the ntor(s).
assign(s), and transfer(s) to PARC the entire a the Invention(s), in and for the United State applications, patents, design registrations and p	h is hereby acknowledged, the Inventor(s) hereby sell(s), nd exclusive right, title and interest in the Application and s, its territories, and all foreign countries, including all ublications obtained or derived therefrom, world wide, and ventions and treaties, and any provisional applications for
(2) agree that PARC may apply for and receive(3) agree to execute all papers and take all requested by PARC; and	to issue all U.S. Letters Patent granted thereon to PARC; eall foreign Letters Patent thereon; actions necessary or desirable in connection therewith e Application Number on this Assignment, if not already
Huangpin B. Hsieh	DATE
Francisco E. Torres	DATE
C 1 4	
Long Laneus 4	12/18/13
Cory (D. Lancaster	DATE
A. R. Villed	12/18/13
Armin R. Volkel	DATE
2015	12/18/2013
Ashutosh Kole	DATE
Kai Melde	DATE

<u>ASSIGNMENT</u>

The undersigned is/are the named inventor(s) (the "Inventor(s)") on a United States patent application entitled RECYCLING ACTIVATED SLUDGE BY HYDRODYNAMIC SEPERATOR (HDS) TO ENABLE HIGH MLSS BIOREACTOR TO PROCESS HIGH INFLUENT FLOW AND/OR HIGH STRENGTH WASTEWATER (the "Application") for inventions disclosed or claimed therein (the "Invention(s)"), which Application:

 is being executed concurrently herewith, was first executed on 			
was filed on as Application Number	a ynyfuir; Land		
claims the benefit of U.S. Provisional Application	on(s) No(s). fil	led .	
Palo Alto Research Center Incorporated, a Delaware Corassigns, and its legal representatives ("PARC"), is en Invention(s), and the full cooperation of the Inventor(s).			
For valuable consideration, the receipt of which is hereb assign(s), and transfer(s) to PARC the entire and exclusi the Invention(s), in and for the United States, its terri applications, patents, design registrations and publications all priority rights under all present or future conventions a which priority is claimed in the Application; and	ve right, title and in itories, and all fore s obtained or derive	terest in the Application and eign countries, including all d therefrom, world wide, and	
 request the U.S. Commissioner of Patents to issue al agree that PARC may apply for and receive all foreign agree to execute all papers and take all actions requested by PARC; and authorize PARC to subsequently enter the Application 	n Letters Patent thei necessary or desira	reon; able in connection therewith	
entered above.	je trajških sejela i kalen Trajskih sejela i		
	DATE		
entered above.	DATE	ora a Maria de Propinsiona de Propinsionale Propinsionale Propinsionale Propinsionale Propinsionale Propinsiona Propinsionale Propinsionale P	
entered above.	DATE	ide a MAST CORNEL ET WARREN Gebeurgen von der Gebeurgen Master Gebeurgen, der Ge	
entered above. Huangpin B. Hsieh	1940 1940 19 <u>28 12 13 24 24 2</u>		
entered above.	DATE		
entered above. Huangpin B. Hsieh	1940 1940 19 <u>28 12 13 24 24 2</u>		
entered above. Huangpin B. Hsieh Francisco E. Torres	DATE		
entered above. Huangpin B. Hsieh	1940 1940 19 <u>28 12 13 24 24 2</u>		
entered above. Huangpin B. Hsieh Francisco E. Torres	DATE		
entered above. Huangpin B. Hsieh Francisco E. Torres	DATE		
entered above. Huangpin B. Hsieh Francisco E. Torres	DATE		
entered above, Huangpin B. Hsieh Francisco E. Torres Cory D. Lancaster	DATE		
entered above, Huangpin B. Hsieh Francisco E. Torres Cory D. Lancaster	DATE		
entered above, Huangpin B. Hsieh Francisco E. Torres Cory D. Lancaster Armin R. Volkel	DATE		
entered above, Huangpin B. Hsieh Francisco E, Torres Cory D. Lancaster Armin R. Volkel	DATE		
entered above, Huangpin B. Hsieh Francisco E. Torres Cory D. Lancaster Armin R. Volkel	DATE	20/3	

PATENT REEL: 031829 FRAME: 0861

RECORDED: 12/20/2013