503801662 04/27/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3848309

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BRUCE JOHNSON	06/15/2015
DAVID AUSTIN	06/16/2015
GLEN T. DAIGGER	06/23/2015

RECEIVING PARTY DATA

Name:	CH2M HILL, INC.		
Street Address:	9191 SOUTH JAMAICA STREET		
City:	ENGLEWOOD		
State/Country:	COLORADO		
Postal Code:	80112		

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	14719233
PCT Number:	US2015032057

CORRESPONDENCE DATA

Fax Number: (303)629-3450

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: marquette.debra@dorsey.com
Correspondent Name: DORSEY & WHITNEY LLP
Address Line 1: 1400 WEWATTA STREET

Address Line 2: SUITE 400

Address Line 4: DENVER, COLORADO 80202-5549

ATTORNEY DOCKET NUMBER:	P244552.US.02, WO.01
NAME OF SUBMITTER:	DEBRA J. MARQUETTE
SIGNATURE:	/Debra J. Marquette/
DATE SIGNED:	04/27/2016

Total Attachments: 15

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PATENT 503801662 REEL: 038393 FRAME: 0864

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PATENT REEL: 038393 FRAME: 0865

ASSIGNMENT

WHEREAS, we, Joshua P. Boltz, Glen T. Daigger, David Austin and Bruce Johnson, all with a mailing address of 9191 South Jamaica Street, Englewood, Colorado, 80112, (hereinafter, individually and collectively the "Assignor"), have invented certain new and useful systems, devices, and methods disclosed and described in a utility application for Letters Patent in the United States, titled "Biofilm Media, Treatment System and Method of Wastewater Treatment," which can be identified in the United States Patent and Trademark Office by Application No. 14/719,233, filed on May 21, 2015, 2015, (the "Utility Application"), with Attorney Docket No. P244552.US.02; and

WHEREAS, Assignor desires to assign any and all right, title and interest to said Invention; any patent, patent application, design registration, design application, or other intellectual property right based upon or arising from said Invention, including, but not limited to, any original, provisional, continuation, continuation-in-part, divisional, international, foreign, regional, and convention applications, registrations, or patents; any reissue or reexamination thereof or to be obtained therefor; any renewals, or substitutes thereof; any and all priority rights or priority claims and International Convention rights for any of the foregoing; any and all rights to collect damages, including past damages, for infringement of any and all of the foregoing; and other benefits accruing to or to accrue to Assignor with respect to the filing of applications for patents or design registrations or the securing of patents, design registrations, or other intellectual property rights in any country or region in the world (the "Patent Rights");

WHEREAS, CH2M HILL, Inc., a corporation organized and existing under the laws of the State of Florida, and having its principal place of business at 9191 South Jamaica Street, Englewood, Colorado 80112-5946 (the "Assignee"), desires to acquire any and all, right, title, and interest of Assignor in and to the Invention and the Patent Rights;

NOW THEREFORE, for the sum of \$1.00 and other good and valuable consideration to Assignor in hand paid, the receipt and sufficiency of which are hereby acknowledged, Assignor has sold, assigned, and transfer and by these presents does hereby sell, assign and transfer to said Assignee, and said Assignee's legal representatives, successors and assigns, any and all of the entire right, title and interest in and to the Invention and the Patent Rights;

UPON SAID CONSIDERATION, the Assignor hereby covenants and agrees with the said Assignee that it will not execute any writing or do any act whatsoever conflicting with these presents, and that it will, at any time upon request, without further or additional consideration, but at the expense of the said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee 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, provisional, non-provisional, continuation, continuation-in-part, continuing prosecution, divisional, renewal, reissue, reexamined or extended patents or design registrations in any country or region in the world, and execute confirmatory assignments or acknowledgments of this assignment as necessary for full enjoyment of the Invention and the Patent Rights and for recording in foreign patent offices, and in enforcing any rights or choses in action accruing as a result of the Patent Rights, by giving testimony in any proceedings or transactions involving the Invention and/or the Patent Rights, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of both parties;

UPON SAID CONSIDERATION, Assignor represents and warrants that Assignor has the right, title, and authority to execute this Assignment and to convey any and all right, title, and interest in the Invention and the Patent Rights, and that Assignor has not conveyed nor will convey hereafter all or part of the Invention and the Patent Rights to a third party;

ASSIGNOR HEREBY AUTHORIZES said Assignee, its successors, and assigns, or anyone it may properly designate, to apply for patents, design registrations, and other intellectual property rights associated with the Invention in any country or region in the world, in its own name if desired, and additionally to claim priority to the filing date of the original application or registration and otherwise take advantage of the provisions of any international conventions.

The effective date of the Assignment is May 21, 2015.

IN WITNES indicated below.	SS WHEREOF, the Assign	nor hereunto has executed this Assignment upon the date
Date:	, 2015	By:
STATE OF) ss.	
COUNTY OF) 33.	
acknowledged that h purposes and consid	day oflly appeared Joshua P. Bone signed, sealed and deliverations therein expressed	, 2015, before me a Notary Public in and for oltz who executed the foregoing instrument and vered the same instrument as a free and voluntary act for the d.
(SEAL)		
		Notary Public
My commis	sion expires:	·

Date:	, 2015	By: Glen T. Daigger
STATE OF)	
COUNTY OF) ss.)	
On thissaid county, personally a acknowledged that he sign purposes and consideration	gned, sealed and deliv	, 2015, before me a Notary Public in and for ger who executed the foregoing instrument and ered the same instrument as a free and voluntary act for the
(SEAL)		
		Notary Public
My commission	expires:	
IN WITNESS Windicated below. Date:		nor hereunto has executed this Assignment upon the date
Date.	, 2013	By:
STATE OF	\ ~~	
On thissaid county, personally a that he signed, sealed an considerations therein ex	appeared David Austing delivered the same in the same	, 2015, before me a Notary Public in and for who executed the foregoing instrument and acknowledged instrument as a free and voluntary act for the purposes and
(SEAL)		
		Notary Public
My commission	expires:	

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date

indicated below.

IN WITNESS WHEREOF, the Assignor her indicated below.	eunto has executed this Assignment upon the date
Date: 6/15, 2015	HV: Duce These
STATE OF Colorado	Bruce Johnson
COUNTY OF Douglas) ss.	
On this 15th day of Tune said county, personally appeared Bruce Johnson who acknowledged that he signed, sealed and delivered the purposes and considerations therein expressed.	
(SEAL)	Sally a. Hell
My commission expires: 8/39/30	Notary Public / / / / / / / / / / / / / / / / / / /
PUBLIC	

ACCEPTANCE OF ASSIGNMENT

The Assignee hereby acknowledges and accepts the foregoing assignment of rights by Assignor.

IN TESTIMONY WHEREOF, the Assi as of the effective date of May 21, 2015.	gnee, by its undersigned officer, confirms its acceptance
	CH2M HILL, Inc.
Date:	By: Name: Title: Asst' Secretary SEATION STORY STORY SEATION FLORY FLORY
STATE OF COLORADO) ss.	·
COUNTY OF)	
On this 15th day of Tune said county, personally appeared Julie T. A of the Assignee, CH2M HILL, Inc., who execut acknowledged that she had the requisite corpora and the same was executed as a free act and deep	ed the foregoing patent Assignment, and represented and the authority to execute and accept this patent Assignment
(SEAL)	Notary Public Notary Public
My commission expires: 8/29/	2015
PUBLIC	

<u>ASSIGNMENT</u>

WHEREAS, we, Joshua P. Boltz, Glen T. Daigger, David Austin and Bruce Johnson, all with a mailing address of 9191 South Jamaica Street, Englewood, Colorado, 80112, (hereinafter, individually and collectively the "Assignor"), have invented certain new and useful systems, devices, and methods disclosed and described in a utility application for Letters Patent in the United States, titled "Biofilm Media, Treatment System and Method of Wastewater Treatment," which can be identified in the United States Patent and Trademark Office by Application No. 14/719,233, filed on May 21, 2015, 2015, (the "Utility Application"), with Attorney Docket No. P244552.US.02; and

WHEREAS, Assignor desires to assign any and all right, title and interest to said Invention; any patent, patent application, design registration, design application, or other intellectual property right based upon or arising from said Invention, including, but not limited to, any original, provisional, continuation, continuation-in-part, divisional, international, foreign, regional, and convention applications, registrations, or patents; any reissue or reexamination thereof or to be obtained therefor; any renewals, or substitutes thereof; any and all priority rights or priority claims and International Convention rights for any of the foregoing; any and all rights to collect damages, including past damages, for infringement of any and all of the foregoing; and other benefits accruing to or to accrue to Assignor with respect to the filing of applications for patents or design registrations or the securing of patents, design registrations, or other intellectual property rights in any country or region in the world (the "Patent Rights");

WHEREAS, CH2M HILL, Inc., a corporation organized and existing under the laws of the State of Florida, and having its principal place of business at 9191 South Jamaica Street, Englewood, Colorado 80112-5946 (the "Assignee"), desires to acquire any and all, right, title, and interest of Assignor in and to the Invention and the Patent Rights;

NOW THEREFORE, for the sum of \$1.00 and other good and valuable consideration to Assignor in hand paid, the receipt and sufficiency of which are hereby acknowledged, Assignor has sold, assigned, and transfer and by these presents does hereby sell, assign and transfer to said Assignee, and said Assignee's legal representatives, successors and assigns, any and all of the entire right, title and interest in and to the Invention and the Patent Rights;

UPON SAID CONSIDERATION, the Assignor hereby covenants and agrees with the said Assignee that it will not execute any writing or do any act whatsoever conflicting with these presents, and that it will, at any time upon request, without further or additional consideration, but at the expense of the said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee 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, provisional, non-provisional, continuation, continuation-in-part, continuing prosecution, divisional, renewal, reissue, reexamined or extended patents or design registrations in any country or region in the world, and execute confirmatory assignments or acknowledgments of this assignment as necessary for full enjoyment of the Invention and the Patent Rights and for recording in foreign patent offices, and in enforcing any rights or choses in action accruing as a result of the Patent Rights, by giving testimony in any proceedings or transactions involving the Invention and/or the Patent Rights, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of both parties;

UPON SAID CONSIDERATION, Assignor represents and warrants that Assignor has the right, title, and authority to execute this Assignment and to convey any and all right, title, and interest in the Invention and the Patent Rights, and that Assignor has not conveyed nor will convey hereafter all or part of the Invention and the Patent Rights to a third party;

ASSIGNOR HEREBY AUTHORIZES said Assignee, its successors, and assigns, or anyone it may properly designate, to apply for patents, design registrations, and other intellectual property rights associated with the Invention in any country or region in the world, in its own name if desired, and additionally to claim priority to the filing date of the original application or registration and otherwise take advantage of the provisions of any international conventions.

The effective date of the Assignment is May 21, 2015.

IN WITNESS Windicated below.	HEREOF, the Assign	or hereunto has executed this Assignment upon the date
Date:	, 2015	By:
STATE OF	`	
COUNTY OF		
said county, personally a	appeared Joshua P. Bog gned, sealed and delive	, 2015, before me a Notary Public in and for ltz who executed the foregoing instrument and ered the same instrument as a free and voluntary act for the
(SEAL)		
		Notary Public
My commission	evnires:	

indicated below.				
Date:	. 2015	Bv:		
Dato.		By: Glen T. Daigge	er	
STATE OF)			
COUNTY OF) ss.)			
		2015 befor	re me a Notary Pi	ablic in and for
On this day said county, personally appeacknowledged that he signed purposes and considerations	d, sealed and delive	ger who executed the fore red the same instrument	egoing instrument as a free and volu	and antary act for the
(SEAL)				
		Notary Public		
My commission exp	oires:	•		
IN WITNESS WHE indicated below. Date: 16 JUN STATE OF Minnes	, 2015	By: David Austin	this Assignment	upon the date
county of Goodh	ss.			
On this da said county, personally appethat he signed, sealed and d considerations therein express	eared David Austin elivered the same in	, 2015, before who executed the foregonstrument as a free and v	oing instrument ar	nd acknowledged
(SEAL)		angeli	ns. Lee)
		Notary Public		
My commission ex	pires: 1-3/-	2016	million.	Annala Fill
			My Co	Angela Ellen Lee Notary Public Minnesota ommission Expires January 31, 2016

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date

IN WITNESS indicated below.	WHEREOF, the Assig	nor hereunto has executed this Assignment upon the date
Date:	, 2015	By:Bruce Johnson
STATE OF) ss	•
On thissaid county, personally	day of appeared Bruce John signed, sealed and deli	, 2015, before me a Notary Public in and for son who executed the foregoing instrument and vered the same instrument as a free and voluntary act for the d.
(SEAL)		
		Notary Public
My commission	on expires:	<u>. </u>

ACCEPTANCE OF ASSIGNMENT

The Assignee hereby acknowledges and accepts the foregoing assignment of rights by Assignor.

IN TESTIMONY WHEREOF, the Assignee, by its undersigned officer, confirms its acceptance as of the effective date of May 21, 2015.

CH2M HILL, Inc.

Date:	6/18, 2015	By: ②	Steven Mather asures, Vice Pre	US Siclent
STATE OF C	OLORADO)			
COUNTY OF	Douglas ss.			
of the Assigne acknowledged	s /8 day of	Mathew uted the foregoing rate authority to	1015, before me a Notary Public 15, the above-mentioned represent Assignment, and represented execute and accept this patent	epresentative resented and
(S.E'')	MA. HILLIAN		Sally A. H.	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	PUBLIC PS 9/	Nota	ry Public	

ASSIGNMENT

WHEREAS, we, Joshua P. Boltz, Glen T. Daigger, David Austin and Bruce Johnson, all with a mailing address of 9191 South Jamaica Street, Englewood, Colorado, 80112, (hereinafter, individually and collectively the "Assignor"), have invented certain new and useful systems, devices, and methods disclosed and described in a utility application for Letters Patent in the United States, titled "Biofilm Media, Treatment System and Method of Wastewater Treatment," which can be identified in the United States Patent and Trademark Office by Application No. 14/719,233, filed on May 21, 2015, 2015, (the "Utility Application"), with Attorney Docket No. P244552.US.02; and

WHEREAS, Assignor desires to assign any and all right, title and interest to said Invention; any patent, patent application, design registration, design application, or other intellectual property right based upon or arising from said Invention, including, but not limited to, any original, provisional, continuation, continuation-in-part, divisional, international, foreign, regional, and convention applications, registrations, or patents; any reissue or reexamination thereof or to be obtained therefor; any renewals, or substitutes thereof; any and all priority rights or priority claims and International Convention rights for any of the foregoing; any and all rights to collect damages, including past damages, for infringement of any and all of the foregoing; and other benefits accruing to or to accrue to Assignor with respect to the filing of applications for patents or design registrations or the securing of patents, design registrations, or other intellectual property rights in any country or region in the world (the "Patent Rights");

WHEREAS, CH2M HILL, Inc., a corporation organized and existing under the laws of the State of Florida, and having its principal place of business at 9191 South Jamaica Street, Englewood, Colorado 80112-5946 (the "Assignee"), desires to acquire any and all, right, title, and interest of Assignor in and to the Invention and the Patent Rights;

NOW THEREFORE, for the sum of \$1.00 and other good and valuable consideration to Assignor in hand paid, the receipt and sufficiency of which are hereby acknowledged, Assignor has sold, assigned, and transfer and by these presents does hereby sell, assign and transfer to said Assignee, and said Assignee's legal representatives, successors and assigns, any and all of the entire right, title and interest in and to the Invention and the Patent Rights;

UPON SAID CONSIDERATION, the Assignor hereby covenants and agrees with the said Assignee that it will not execute any writing or do any act whatsoever conflicting with these presents, and that it will, at any time upon request, without further or additional consideration, but at the expense of the said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee 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, provisional, non-provisional, continuation, continuation-in-part, continuing prosecution, divisional, renewal, reissue, reexamined or extended patents or design registrations in any country or region in the world, and execute confirmatory assignments or acknowledgments of this assignment as necessary for full enjoyment of the Invention and the Patent Rights and for recording in foreign patent offices, and in enforcing any rights or choses in action accruing as a result of the Patent Rights, by giving testimony in any proceedings or transactions involving the Invention and/or the Patent Rights, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of both parties;

UPON SAID CONSIDERATION, Assignor represents and warrants that Assignor has the right, title, and authority to execute this Assignment and to convey any and all right, title, and interest in the Invention and the Patent Rights, and that Assignor has not conveyed nor will convey hereafter all or part of the Invention and the Patent Rights to a third party;

ASSIGNOR HEREBY AUTHORIZES said Assignee, its successors, and assigns, or anyone it may properly designate, to apply for patents, design registrations, and other intellectual property rights associated with the Invention in any country or region in the world, in its own name if desired, and additionally to claim priority to the filing date of the original application or registration and otherwise take advantage of the provisions of any international conventions.

	nereunto has executed this Assignment upon the date
indicated below.	
. ~	
Date: 23 SCKe 2015	By: 7-92
Date: 23 Toke, 2015 STATE OF Colorado COUNTY OF Docalar ss.	Glen T. Daigger
O(1)	
STATE OF Colorado	
SS.	•
COUNTY OF OOCGIVET	
On this 23th day of Tuno	, 2015, before me a Notary Public in and for
said county, personally appeared Glen T. Daigger	who executed the foregoing instrument and
	I the same instrument as a free and voluntary act for the
purposes and considerations therein expressed.	•
HILLIAM CONTRACTOR OF THE PARTY	
IIII ALKO BARANTA	$C \cup A \cup $
NOTARY PUBLIC OF	Cally Sell
	Notary Public
Pum IC /	, rotary rubite (
My compassion expires: 8/09/0	2019
OF COLONIII	
"mining"	
•	
DI WITNESS WILLEDEOE the Agging on h	constitute has accounted this Assistant and the data
	nereunto has executed this Assignment upon the date
IN WITNESS WHEREOF, the Assignor landicated below.	nereunto has executed this Assignment upon the date
indicated below.	By: David Austin
Date:, 2015	
indicated below. Date:	By: David Austin
indicated below. Date:	By:
indicated below. Date:	By:
indicated below. Date:	By:
Date:	By:
indicated below. Date:	By:
Date:	By:
Date:	By:
Date:	By:
Date:	By:

Date:	, 2015	By:
		Bruce Johnson
STATE OF		
) ss.	
COUNTY OF		
On this said county, personally acknowledged that he s	day of	, 2015, before me a Notary Public in and for son who executed the foregoing instrument and vered the same instrument as a free and voluntary act for the d.
On thissaid county, personally	day of	son who executed the foregoing instrument and wered the same instrument as a free and voluntary act for the

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date

ACCEPTANCE OF ASSIGNMENT

The Assignee hereby acknowledges and accepts the foregoing assignment of rights by Assignor.

	ESTIMONY WHEREOF, the A ctive date of May 21, 2015.	ssignee, by it	s undersigned officer, confirms its	acceptant. No
		СН2М Н	IILL, Inc.	58 3
Date:	6/29 , 2015	By: _ Name: _ Title:	Julie T. Apold H551 Secretary	Skor
	COLORADO) ss			
COUNTY OF	Douglas)	•		
said county, p of the Assign- acknowledge	day of Julie 7 day of Land of that she had the requisite corp was executed as a free act and of	cuted the fore orate authorite	, 2015, before me a Notary Public, the above-mentioned regoing patent Assignment, and represent to execute and accept this patent	epresentative resented and
(SE	A L)	· , , Ī	Notary Public All Notary Public	/
Мус	commission expires:	729/201	9	
			NOTARY PUBLIC OF COLORS	Manman