

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6007795

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the CORRECT THE ADDRESS OF THE RECEIVING PARTY previously recorded on Reel 042647 Frame 0351. Assignor(s) hereby confirms the ASSIGNMENT.
CONVEYING PARTY DATA	
Name	Execution Date
ENERGY AND ENVIRONMENTAL RESEARCH CENTER FOUNDATION	04/24/2017
RECEIVING PARTY DATA	
Name:	MIDWEST ENERGY EMISSIONS CORP.
Street Address:	1810 JESTER DR
City:	CORSICANA
State/Country:	TEXAS
Postal Code:	75109
PROPERTY NUMBERS Total: 5	
Property Type	Number
Application Number:	14712558
Application Number:	11209163
Application Number:	12419219
Application Number:	13966768
Application Number:	10554018
CORRESPONDENCE DATA	
Fax Number:	
<i>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.</i>	
Email:	request@slwip.com
Correspondent Name:	SCHWEGMAN LUNDBERG & WOESSNER, P.A.
Address Line 1:	P.O. BOX 2938
Address Line 4:	MINNEAPOLIS, MINNESOTA 55402
ATTORNEY DOCKET NUMBER:	4820.001US7
NAME OF SUBMITTER:	DIANA JOHNSON
SIGNATURE:	/Diana Johnson/
DATE SIGNED:	03/11/2020
Total Attachments: 10	
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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4450683

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
ENERGY AND ENVIRONMENTAL RESEARCH CENTER FOUNDATION		04/24/2017
RECEIVING PARTY DATA		
Name:	MIDWEST ENERGY EMISSIONS CORP.	
Street Address:	670 D ENTERPRISE DR	
City:	LEWIS CENTER	
State/Country:	OHIO	
Postal Code:	43035	
PROPERTY NUMBERS Total: 27		
Property Type	Number	
Application Number:	11209163	
Application Number:	10554018	
Application Number:	12419219	
Application Number:	12167054	
Application Number:	13425288	
Application Number:	11220810	
Application Number:	12177771	
Application Number:	13544971	
Application Number:	13427665	
Application Number:	12429058	
Application Number:	13966768	
Application Number:	13453274	
Application Number:	14446992	
Application Number:	14102896	
Application Number:	14195360	
Application Number:	14318270	
Application Number:	15295594	
Application Number:	14564860	
Application Number:	14712558	
Application Number:	14880463	

PATENT

Property Type	Number
Application Number:	15382114
Application Number:	15449112
Application Number:	15452527
Application Number:	60605640
Application Number:	60464868
Application Number:	60947543
Application Number:	61773549

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.

Email: request@slwip.com

Correspondent Name: SCHWEGMAN LUNDBERG & WOESSNER, P.A.

Address Line 1: P.O. BOX 2938

Address Line 4: MINNEAPOLIS, MINNESOTA 55402

ATTORNEY DOCKET NUMBER:	4820.000001
NAME OF SUBMITTER:	ROBIN L. MONSEES
SIGNATURE:	/ Robin L. Monsees /
DATE SIGNED:	06/08/2017

Total Attachments: 7

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RECORDATION FORM COVER SHEET
PATENTS ONLY

Atty Ref/Docket No.: 4820.001US7, 4820.001US1, 4820.001US3, 4820.001US5, 4820.002US1 Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Energy and Environmental Research Center Foundation

Additional name(s) of conveying party(ies) attached?

[] Yes [X] No

3. Nature of conveyance:

[] Assignment

[] Merger

[] Security Agreement [] Change of Name

[X] Other –Correct the Address of the Receiving Party
on the previously recorded cover sheet at reel 042647
and frame 0351.

2. Name and address of receiving party(ies):

Name: Midwest Energy Emissions Corp.

Street Address: 1810 Jester Dr

City: Corsicana State: TX Zip: 75109

Country: United States of America

Additional name(s) & address(es) attached? [] Yes
[X] No

Execution Date: April 24, 2017

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

Serial No. 14/712,558
11/209,163
12/419,219
13/966,768
10/554,018

B. Patent No.(s)

Additional numbers attached? [] Yes [X] No

5. Name and address of party to whom correspondence
concerning document should be mailed:

Name: Nicholas P. Lanzatella

Address:

Schwegman Lundberg & Woessner, P.A.
P.O. Box 2938
Minneapolis, Minnesota 55402

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):\$ 0.00

[] Enclosed

[] Authorized to be charged to deposit account
19-0743

8. Please charge any additional fees or credit any over
payments to our Deposit Account No.: 19-0743

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy
of the original document.

Nicholas P. Lanzatella/Reg. No. 63,803

Name of Person Signing

Signature

Date

Total number of pages including cover sheet: 10

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
Mail Stop Assignment Recordation Services
P.O. Box 1450
Alexandria, VA 22313-1450

PATENT
REEL: 052144 FRAME: 0661

DAK are the initials of David M. Kaye, Esq., who is general counsel as well as secretary of Midwest Energy Emissions Corp.

ASSIGNMENT

THIS ASSIGNMENT is made and effective as of April 24, 2017 by and between the ENERGY AND ENVIRONMENTAL RESEARCH CENTER FOUNDATION ("EERC Foundation"), a non-profit corporation organized under the laws of the State of North Dakota, having its principal place of business at 15 North 23rd Street, Stop 9018, Grand Forks, North Dakota 58202, and MIDWEST ENERGY EMISSIONS CORP., a Delaware corporation ("ME₂C"), having its principal place of business at ~~670 D Enterprise Drive, Lewis Center, Ohio 43035~~ 1810 JESTER DRIVE, CORRIGANA, TEXAS 75109 *DAK* 3/9/2020

WHEREAS, EERC Foundation owns by ASSIGNMENT from the named inventors recorded in the United States Patent and Trademark Office, the right, title, and interest in the patents and patent applications listed in Appendix A attached hereto; and

WHEREAS, ME₂C desires to own EERC Foundation's entire right, title, and interest in and to the patents and patent applications listed in Appendix A.

NOW THEREFORE, be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, the EERC Foundation hereby sells, assigns, transfers and sets over to ME₂C, its lawful successors and assigns, all rights, titles, interests, and accrued causes of action for damages for infringement of, all patents, patent applications, all divisions, substitutions, continuations, continuations-in-part, reissues, reexaminations, and extensions thereof, together with all foreign counterparts thereof and patents issuing thereon derived from or claiming priority of the United States provisional patent application or other provisional patent application filed for an issued patent or patent application as set forth in Appendix A;

AND, EERC Foundation hereby represents, warrants and agrees that EERC Foundation has the full right to convey the interests assigned by this ASSIGNMENT, and has obtained the approval from the U.S. Department of Energy and from the U.S. Environmental Protection Agency necessary to transfer the interests assigned hereby to ME₂C;

AND, this ASSIGNMENT may be executed in counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

IN WITNESS WHEREOF, each party has caused its authorized representative to execute this ASSIGNMENT, effective as of the date indicated above.

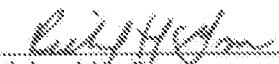
Energy and Environmental Research
Center Foundation

Midwest Energy Emissions Corp.

By: 

Name: Ron Ness

Title: President

By: 

Name: Richard H. Gross

Title: Chief Financial Officer

ACKNOWLEDGMENT

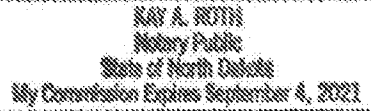
State of *North Dakota*

)

) ss:

County of *Burleigh*

)



On the 14th day of April, 2017, before me, the undersigned, personally appeared Ron Ness, personally known to me or proved to me on the basis of satisfactory evidence to be the person who executed this instrument on behalf of Energy and Environmental Research Center Foundation, and acknowledged that he executed it in such representative capacity.

Kay A. Roth

Notary Public

ACKNOWLEDGMENT

State of *Ohio*

)

) ss:

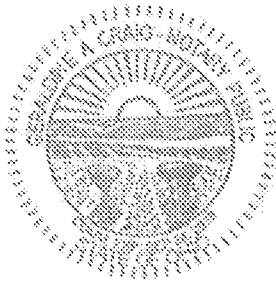
County of *Delaware*

)

On the 14 day of ^{May}April, 2017, before me, the undersigned, personally appeared Richard H. Gross, personally known to me or proved to me on the basis of satisfactory evidence to be the person who executed this instrument on behalf of Midwest Energy Emissions Corp., and acknowledged that he executed it in such representative capacity.

Donald A. Craig

Notary Public



APPENDIX A

PATENTS AND PATENT APPLICATIONS

Issued Patents

U.S. Patents

- U.S. Patent 7,435,286 -- Sorbents for the Oxidation and Removal of Mercury (05-001)
- U.S. Patent 8,173,566 -- Process for Regenerating a Spent Sorbent (PAC Regen) (03-023)
- U.S. Patent 8,168,147 -- Sorbents for the Oxidation and Removal of Mercury (09-012)
- U.S. Patent 8,312,822 -- Mercury Control Using Moderate-Temperature Dissociation of Halogen Compounds (06-001)
- U.S. Patent 8,440,585 -- Process for Regenerating a Spent Sorbent (03-023US1 CONT)
- U.S. Patent 7,615,101 -- High Energy Dissociation for Mercury Control Systems (05-015)
- U.S. Patent 7,628,969 -- Multifunctional Abatement of Air Pollutants in Flue Gas (09006CIP of 05-015)
- U.S. Patent 8,807,056 -- Mercury Control Using Moderate-Temperature Dissociation of Halogen Compounds (06-001CONT)
- U.S. Patent 8,512,655 -- Sorbents for the Oxidation and Removal of Mercury (09-012CONT1)
- U.S. Patent 8,652,235 -- Sorbents for the Oxidation and Removal of Mercury (09-013CIP)
- U.S. Patent 8,821,819 -- Sorbents for the Oxidation and Removal of Mercury (09-012CONT2)
- U.S. Patent 9,011,805 -- Carbon Nanocomposite Sorbent and Methods of Using the Same for Separation of One or More Materials from a Gas Stream (12-001)
- U.S. Patent 9,155,997 -- Mercury Control Using Moderate-Temperature Dissociation of Halogen Compounds (06-001CONT2)
- U.S. Patent 9,468,886 -- Sorbents for the Oxidation and Removal of Mercury (09-013CIP CONT1)

Foreign Patents

- Canada Patent 2,523,132 -- Process for Regenerating a Spent Sorbent (03-023)
- Canada Patent 2,584,327 -- Sorbents for the Oxidation and Removal of Mercury (05-001)
- Canadian Patent 2,757,309 Sorbents for the Oxidation and Removal of Mercury (09-013)
- China Patent ZL200580037037.0 (Certificate No. 635764) -- Sorbents and Flue Gas Additives for the Oxidation and Removal of Mercury (05-001)

- Europe Patent 1 796 816 -- Sorbents for the Oxidation and Removal of Mercury (05-001EP)
- Europe Divisional No. 2 431 087 -- Removal of Mercury from Flue Gas (05-001EU Div1)
 - Validating the patent application in Germany for issuance of patent
 - Validating the patent application in the Netherlands for issuance of patent
 - Validating the patent application in the United Kingdom for issuance of patent
- Europe Patent 2 429 685 -- Sorbents for the Oxidation and Removal of Mercury (09013EP)
 - Validating the patent application in Germany for issuance of patent
 - Validating the patent application in the Netherlands for issuance of patent
 - Validating the patent application in the United Kingdom for issuance of patent
- 200480017704.4
- China Patent ZL200680041485.2 -- High-Energy Dissociation for Mercury Control Systems (05-015CN)
- Europe Patent 1 931 449 -- High-Energy Dissociation for Mercury Control Systems (0501SEP)
 - Validating the patent application in Germany for issuance of patent
 - Validating the patent application in the Netherlands for issuance of patent
 - Validating the patent application in the United Kingdom for issuance of patent
- China Patent ZL201080017698.8 Process for Regenerating a Spent Sorbent (PAC Regen) (09-013CN)
- China Patent ZL200480017704.4 Process for Regenerating a Spent Sorbent (PAC Regen) (03-023CN)

Pending Patent Applications

U.S. Patents

- Activated Carbon Sorbent Including Nitrogen and Methods of Using the Same -- Application Serial No. 14/195,360 (13-004)
- Sorbents for the Oxidation and Removal of Mercury -- Application Serial No. 14/318,270 (09-012CONT3)
- Sorbents for the Oxidation and Removal of Mercury -- Application Serial No. 15/295,594 (09-013CONT2)
- Carbon Nanocomposite Sorbent and Methods of Using the Same for Separation of One or More Materials from a Gas Stream -- Application Serial No. 14/564,860 (12-001Cont)
- Sorbents for the Oxidation and Removal of Mercury -- Application Serial No. 14/712,558 (09-012CONT4)
- Mercury Control Using Moderate-Temperature Dissociation of Halogen Compounds -- Application Serial No. 14/880,463 (06-001CONT3)
- Promoted Ammonium Salt-Protected Activated Carbon Sorbent Particles For Removal of Mercury From Gas Streams-Application Serial No. 15/382,114 (13-004 CIP)

- Sorbent Comprising Carbon and Nitrogen and Methods of Using the Same—Application Serial No. 15/449,112 (13-004 CIP2)
- Carbon Nanocomposite Sorbent and Methods of Using the Same for Separation of One or More Materials from a Gas Stream – Application Serial No. 15/452,527 (12-001Cont2)

Foreign Patents

- Process for Regenerating a Spent Sorbent (PAC Regen) (03-023)
 - Application pending in European Patent Office – Application Serial No. 04750664.7
- Sorbents and Flue Gas Additives for the Oxidation and Removal of Mercury (05-001)
- Note: A different divisional – Application Serial No. 11 189 249.3 – was abandoned as unpatentable over prior art
- Carbon Nanocomposite Sorbent and Methods of Using the Same for Separation of One or More Materials from a Gas Stream (12-001PCT)
 - Application pending in Europe
 - Application pending in China
 - Application pending in Canada
- Activated Carbon Sorbent Including Nitrogen and Methods of Using the Same (13-004PCT)
 - Application pending in Canada
 - Application pending in China
 - Application pending in Europe

Provisional Patent Applications

U.S. Patents

- Sorbents for the Oxidation and Removal of Mercury – U.S. Provisional Patent Application Serial No. 60/605,640 (05-001PRV)
- Process for Regenerating a Spent Sorbent – U.S. Provisional Patent Application Serial No. 60/464,868 (03-023PRV)
- Mercury Control Using Moderate-Temperature Dissociation of Halogen Compounds – U.S. Provisional Patent Application Serial No. 60/947,543 (06-001PRV)
- Activated Carbon Sorbent Including Nitrogen and Methods of Using the Same – Application Serial Number 61/773,549 (13-004PRV)

Appendix A

Application #	SLW File #	Patent #
11/209,163	4820.001US1	7,435,286
10/554,018	4820.002US1	8,173,566
12/419,219	4820.001US3	8,168,147
12/167,054	4820.008US1	8,312,822
13/425,288	4820.002US2	8,440,585
11/220,810	4820.009US1	7,615,101
12/177,771	4820.010US1	7,628,969
13/544,971	4820.008US2	8,807,056
13/427,665	4820.001US4	8,512,655
12/429,058	4820.007US1	8,652,235
13/966,768	4820.001US5	8,821,819
13/453,274	4820.006US1	9,011,805
14/446,992	4820.008US3	9,155,997
14/102,896	4820.007US2	9,468,886
14/195,380	4820.003US1	9,669,355
14/318,270	4820.001US6	
15/295,594	4820.007US3	
14/564,860	4820.006US2	9,662,629
14/712,558	4820.001US7	
14/880,463	4820.008US4	9,675,931
15/382,114	4820.004US1	
15/449,112	4820.005US1	
15/452,527	4820.006US3	
60/605,640	4820.001PRV	
60/464,868	4820.002PRV	
60/947,543	4820.008PRV	
61/773,549	4820.003PRV	