

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3986755

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
TERRELL DALLAS GINN	08/08/2013
DANNY LYNN GRAY	08/08/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CHARAH, INC.
<b>Street Address:</b>	12601 PLANTSIDE DRIVE
<b>City:</b>	LOUISVILLE
<b>State/Country:</b>	KENTUCKY
<b>Postal Code:</b>	40299
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15224243
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(704)331-1159
<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>	
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<b>Address Line 1:</b>	3015 CARRINGTON MILL BLVD., SUITE 400
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<b>Address Line 4:</b>	RESEARCH TRIANGLE PK, NORTH CAROLINA 27709
<b>ATTORNEY DOCKET NUMBER:</b>	946478.000074
<b>NAME OF SUBMITTER:</b>	HENRY B. WARD, III
<b>SIGNATURE:</b>	/hbw/
<b>DATE SIGNED:</b>	08/01/2016
<b>Total Attachments: 5</b>	
source=Recordation_of_Assignment_946478_000074#page1.tif	
source=Recordation_of_Assignment_946478_000074#page2.tif	
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# RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the Patent and Trademark Office:

Attorney Dkt. No.: 946478.000074

Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):

Terrell Dallas Ginn; Danny Lynn Gray

Additional name(s) of conveying party(ies) attached? Yes ☐ No ☒

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

CHARAH, INC.  
12601 PLANTSIDE DRIVE  
LOUISVILLE, KENTUCKY 40299

3. Nature of conveyance/ Execution Date(s):

Execution Date(s) August 8, 2013

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

Additional name(s) & address(es) attached? Yes ☐ No ☒

4. Application or patent number(s):

☐ This document serves as an Oath/Declaration (37 CFR 1.63).

A. Patent Application No.(s) 15/224,243

B. Patent No.(s)

Additional numbers attached? Yes ☐ No ☐

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

**MOORE & VAN ALLEN PLLC**  
3015 Carrington Mill Blvd., Suite 400  
Post Office Box 13706  
Research Triangle Park, NC 27709

6. Total number of applications and patents involved:  
1

7. Total fee (37 CFR 1.21(h) & 3.41)

- ☐ Payment by EFT  
☐ Authorization to charge Deposit Account for any deficiency or credit any overpayment  
☒ None required (if filed electronically after 12/31/2013)  
☐ None required (government interest not affecting title)

8. Deposit account number: 13-4365

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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.*

/hbw/

Date: August 1, 2016

Name of Person Signing **Henry B. Ward, III**

Reg. No. 42,212

Total number of pages including cover sheet, attachments, and documents: 5

Electronically filed via the EFS-Web Electronic Filing System of the United States Patent and Trademark Office on August 1, 2016.

**PATENT**  
**REEL: 039304 FRAME: 0102**



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUGUST 1, 2016

PTAS

MOORE & VAN ALLEN PLLC  
3015 CARRINGTON MILL BLVD.  
POST OFFICE BOX 13706  
RESEARCH TRIANGLE PK, NC 27709

**503937512**

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 07/29/2016

REEL/FRAME: 039288/0109  
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 946478.000064

ASSIGNOR:

GINN, TERRELL DALLAS

DOC DATE: 08/08/2013

ASSIGNOR:

GRAY, DANNY LYNN

DOC DATE: 08/08/2013

ASSIGNEE:

CHARAH, INC.  
12601 PLANTSIDE DRIVE  
LOUISVILLE, KENTUCKY 40299

APPLICATION NUMBER: 14831715

FILING DATE: 08/20/2015

PATENT NUMBER:

ISSUE DATE:

TITLE: SYNTHETIC GYPSUM FERTILIZER PRODUCT AND METHOD OF MAKING

ASSIGNMENT RECORDATION BRANCH  
PUBLIC RECORDS DIVISION



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

DECEMBER 6, 2013

PTAS

MOORE & VAN ALLEN PLLC  
100 NORTH TRYON STREET  
SUITE 4700  
CHARLOTTE, NC 28202

**502592681**

### UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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RECORDATION DATE: 12/05/2013

REEL/FRAME: 031726/0277  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 946478-000027

ASSIGNOR:

GINN, TERRELL DALLAS

DOC DATE: 08/08/2013

ASSIGNOR:

GRAY, DANNY LYNN

DOC DATE: 08/08/2013

ASSIGNEE:

CHARAH, INC.  
12601 PLANTSIDE DRIVE  
LOUISVILLE, KENTUCKY 40299

APPLICATION NUMBER: 13962903

FILING DATE: 08/08/2013

PATENT NUMBER:

ISSUE DATE:

TITLE: SYNTHETIC GYPSUM FERTILIZER PRODUCT AND METHOD OF MAKING

ASSIGNMENT RECORDATION BRANCH  
PUBLIC RECORDS DIVISION

## ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns effective as of August 8, 2013, unto

**Charah, Inc.**  
**12601 Plantside Drive**  
**Louisville, KY 40299**

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the invention(s) in

### SYNTHETIC GYPSUM FERTILIZER PRODUCT AND METHOD OF MAKING

as set forth in this United States Patent Application

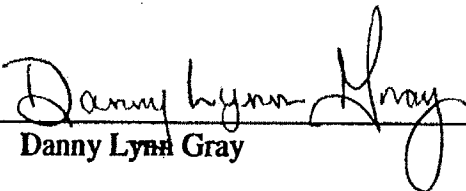
- ☐ executed concurrently herewith
- ☐ executed on \_\_\_\_\_ (Date)
- ☒ Application No. 13/962,903; filed August 8, 2013.

(the invention(s) listed above being hereinafter referred to as the "Invention" and the application listed above being hereinafter referred to as the "Application"); and in all divisional, renewal, substitute, continuation, nonprovisionals, continuation-in-parts, and Convention applications based in whole or in part upon said Invention or upon said Application (being hereinafter referred to collectively with the Application as the "Applications"), and any and all letters patent and reissues, reexaminations, reviews and extensions of letters patent granted for said Invention or upon said Applications (being hereinafter collectively referred to as the "Letters Patent") and every priority right that is or may be predicated upon or arise from said Invention, said Applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on said Invention in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said Invention, Applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said Invention or the history thereof and any and all documents, photographs, models, samples or

other physical exhibits which may embody said inventions, and to testify in any proceedings relating to said Invention, Applications, and/or Letters Patent.

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

  
Terrell Dallas Ginn

  
Danny Lynn Gray