

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4121942

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DAN T. MOORE	05/15/2013
BRIAN BACKUS	05/20/2013
EVELYN M. DELISO	05/20/2013
JOSEPH B. RICHEY III	05/10/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	INTELLECTUAL PROPERTY HOLDINGS, LLC
<b>Street Address:</b>	127 PUBLIC SQUARE
<b>Internal Address:</b>	SUITE 2700
<b>City:</b>	CLEVELAND
<b>State/Country:</b>	OHIO
<b>Postal Code:</b>	44114
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15250100
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(216)241-0816
<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>	
<b>Phone:</b>	2166228200
<b>Email:</b>	mmcdougall@calfee.com
<b>Correspondent Name:</b>	MARK W. MCDUGALL
<b>Address Line 1:</b>	1405 EAST SIXTH STREET
<b>Address Line 2:</b>	CALFEE, HALTER & GRISWOLD LLP
<b>Address Line 4:</b>	CLEVELAND, OHIO 44114-1607
<b>ATTORNEY DOCKET NUMBER:</b>	15299/04083
<b>NAME OF SUBMITTER:</b>	MARK W. MCDUGALL
<b>SIGNATURE:</b>	/Mark W. McDougall/
<b>DATE SIGNED:</b>	11/01/2016
<b>Total Attachments: 7</b>	

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**ASSIGNMENT**

This Assignment is made and entered into by and between Dan T. Moore, residing at 2626 Fairmount Boulevard, Cleveland Heights, Ohio 44106; Brian Backus, residing at 9551 N. CR 800 E, Albany, Indiana 47320; Evelyn M. DeLiso, residing at 242 Sly Avenue, Corning, New York 14830; and Joseph B. Richey III, residing at 9107 Lake In The Woods Trail, Chagrin Falls, Ohio 44023 (collectively hereinafter "INVENTOR(S)"), and Intellectual Property Holdings, LLC, a limited liability company having a place of business at 127 Public Square, Suite 2700, Cleveland, Ohio 44114 (hereinafter referred to as "ASSIGNEE").

**Whereas** INVENTOR(S) have invented certain inventions described in U.S. Patent Application Serial No. 13/886,113, filed May 2, 2013, titled **CERAMIC PREFORM AND METHOD**; PCT Patent Application Serial No. PCT/US13/39247, filed May 2, 2013, titled **CERAMIC PREFORM AND METHOD**; and U.S. Provisional Patent Application Serial No. 61/641,561, filed May 2, 2012, titled **METHOD FOR MAKING A CERAMIC PRE-FORM** and have executed the patent applications therefor;

**Whereas**, ASSIGNEE desires to acquire the entire right, title and interest in said application and inventions, and to any United States and foreign patents to be obtained therefor; and

**Now, therefore**, for good and valuable consideration, receipt of which is hereby acknowledged:

1. INVENTOR(S) hereby sell, assign, and transfer to ASSIGNEE, 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 inventions set forth in the application for United States Letters Patent executed by the INVENTOR(S), said application for United States Letters Patent, any and all other applications for Letters Patent on said inventions in the United States and in countries foreign to the United States, including all divisional, renewal, extension, reexamination, substitute, continuation, continuation-in-part, reissue, and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues and extension of Letters Patent granted for said

inventions or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said applications and said Letters Patent.

2. ASSIGNEE is hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the INVENTOR(S) or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable, under the International Convention or otherwise.

3. The Commissioner of Patents of the United States of America and the empowered officials of all other governments are hereby authorized to issue or transfer all said Letters Patent to ASSIGNEE in accordance herewith.

4. This Assignment is being made under covenant, not only that full power to make the same is had by the INVENTOR(S), but also that, at the time of execution of this Assignment, such assigned right is not encumbered by any grant, license, governmental restriction, or other right heretofore given.

5. The INVENTOR(S) agree that they will do all acts reasonably serving to assure that said inventions, patent applications and Letters Patent shall be held and enjoyed by ASSIGNEE as fully and entirely as the same could have been held and enjoyed by the INVENTOR(S) if this Assignment had not been made, and particularly to execute and deliver to ASSIGNEE all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, lawful affidavits, and declarations in form and in substance which may be requested by ASSIGNEE, to furnish ASSIGNEE with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said inventions, and to testify in any proceedings relating to said inventions, patent applications and Letters Patent.

6. INVENTOR(S) agree that this Assignment shall be construed in accordance with the laws and courts of Ohio. INVENTOR(S) hereby also agree to submit to the jurisdiction of any Ohio court.

7. INVENTOR(S) hereby requests that ASSIGNEE or its counsel enter or correct the date(s) of execution of the afore-referenced Patent Application(s), and enter or correct the

Application Serial Numbers if available, prior to recording this assignment, to have the same effect as if entered prior to execution of this Assignment.

8. INVENTOR(S) acknowledge and understand that the law firm of Calfee, Halter & Griswold LLP and its attorneys represent ASSIGNEE and INVENTOR(S) acknowledge and understand that they are not the client of Calfee, Halter & Griswold, LLP.

9. INVENTOR(S) acknowledge and understand that they have the opportunity to consult with independent legal counsel prior to executing this Assignment.

Signature:

A handwritten signature in black ink, appearing to be "J. M. Smith", written over a horizontal line.

Name:

Title:

INTELLECTUAL PROPERTY HOLDINGS, LLC

Signature: \_\_\_\_\_

Dan T. Moore

5/15/13  
DATE

On this 15 day of MAY, 2013, personally appeared before me, Dan T. Moore to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and the purposes therein mentioned.

Date: 5/15/2013

Linda Kent

Notary Public

LINDA KENT  
NOTARY PUBLIC • STATE OF OHIO  
Recorded in Cuyahoga County  
My commission expires Nov. 15, 2015

Signature: \_\_\_\_\_

Brian Backus

DATE \_\_\_\_\_

On this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, personally appeared before me, Brian Backus to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and the purposes therein mentioned.

Date: \_\_\_\_\_

Notary Public

Signature:

\_\_\_\_\_  
Dan T. Moore\_\_\_\_\_  
DATE

On this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, personally appeared before me, Dan T. Moore to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and the purposes therein mentioned.

Date: \_\_\_\_\_

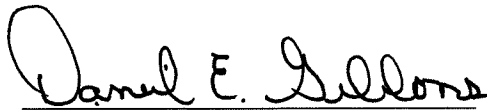
\_\_\_\_\_  
Notary Public

Signature:

  
 \_\_\_\_\_  
 Brian Backus

5-20-2013  
 DATE

On this 20 day of may, 2013, personally appeared before me, Brian Backus to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and the purposes therein mentioned.

Date: 5/20/2013
  
 \_\_\_\_\_

Notary Public

**DANIEL E. GIBBONS**  
**NOTARY PUBLIC • STATE OF OHIO**  
 Recorded in Cuyahoga County  
 My commission expires July 25, 2017

Signature:

Evelyn M. DeLiso  
 Evelyn M. DeLiso

5/20/13  
 DATE

On this 20 day of MAY, 2013, personally appeared before me, Evelyn M. DeLiso to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and the purposes therein mentioned.

Date: 5/20/2013

Daniel E. Gibbons

Notary Public

**DANIEL E. GIBBONS**  
**NOTARY PUBLIC • STATE OF OHIO**  
 Recorded in Cuyahoga County  
 My commission expires July 25, 2017

Signature:

\_\_\_\_\_  
 Joseph M. Richey III

\_\_\_\_\_  
 DATE

On this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, personally appeared before me, Joseph M. Richey III to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and the purposes therein mentioned.

Date: \_\_\_\_\_

\_\_\_\_\_  
 Notary Public



Signature:

\_\_\_\_\_  
Evelyn M. DeLiso\_\_\_\_\_  
DATE

On this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, personally appeared before me, Evelyn M. DeLiso to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and the purposes therein mentioned.

Date: \_\_\_\_\_

\_\_\_\_\_  
Notary Public

Signature:

\_\_\_\_\_  
*Joseph B. Richey III*Joseph ~~III~~. Richey IIIB  
R.R.\_\_\_\_\_  
5/10/13\_\_\_\_\_  
DATE

On this 10 day of MAY, 2013, personally appeared before me, Joseph ~~III~~. Richey III to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and the purposes therein mentioned.

Date: 5/10/13\_\_\_\_\_  
*Daniel O'Connor*

Notary Public

DANIEL O'CONNOR  
Notary Public, State of Ohio  
My Commission Expires Jan. 22, 2017