

<b>PATENT ASSIGNMENT COVER SHEET</b>
--------------------------------------

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4812216

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
RALPH BAUER	07/27/2017
ERIC MOCH	11/15/2017
JENNIFER H. CZEREPINSKI	05/16/2017
YVES BOUSSANT-ROUX	09/12/2017
FLAVIEN FREMY	05/12/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SAINT-GOBAIN CERAMICS & PLASTICS, INC.
<b>Street Address:</b>	One New Bond Street
<b>City:</b>	Worcester
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01615-0138
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15591964
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(512)795-7677
<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>	512-900-8500
<b>Email:</b>	mail@abel-ip.com
<b>Correspondent Name:</b>	ABEL LAW GROUP, LLP
<b>Address Line 1:</b>	8911 N. CAPITAL OF TEXAS HWY
<b>Address Line 2:</b>	BLDG 4, SUITE 4200
<b>Address Line 4:</b>	AUSTIN, TEXAS 78759
<b>ATTORNEY DOCKET NUMBER:</b>	15-A-0246US02
<b>NAME OF SUBMITTER:</b>	ALEKS KOCHAN
<b>SIGNATURE:</b>	/Aleks Kochan/
<b>DATE SIGNED:</b>	02/06/2018
<b>Total Attachments: 6</b>	

source=15-A-0246US02 Executed Assign#page1.tif  
source=15-A-0246US02 Executed Assign#page2.tif  
source=15-A-0246US02 Executed Assign#page3.tif  
source=15-A-0246US02 Executed Assign#page4.tif  
source=15-A-0246US02 Executed Assign#page5.tif  
source=15-A-0246US02 Executed Assign#page6.tif

**ASSIGNMENT OF INVENTION**

For good and valuable consideration, the receipt of which is hereby acknowledged, I, an ASSIGNOR named below,

Ralph BAUER of Niagara Falls Canada CA  
Eric MOCH of Allston, MA US  
Jennifer H. CZEREPINSKI of Framingham, MA US  
Yves BOUSSANT-ROUX of Avignon France FR  
Flavien FREMY of Brookline, MA US

hereby sell, assign and transfer to

ASSIGNEE: SAINT-GOBAIN CERAMICS & PLASTICS, INC., a Delaware Corporation, having a principal place of business at One New Bond Street, Worcester, MA, 01615, United States of America,

its successors, assigns and legal representatives, my entire right, title and interest throughout the world, including all rights to claim priority, in and to the invention disclosed in:

- U.S. Patent Application executed on or about the date of this Assignment,
- U.S. Patent Application executed on \_\_\_\_\_,
- U.S. Provisional Application \_\_\_\_\_, filed on \_\_\_\_\_,
- U.S. Application No.: 15591964, filed on May 10, 2017, or
- International Application No.: PCT/\_\_\_\_\_, filed on \_\_\_\_\_.

ENTITLED: **ABRASIVE PARTICLES AND METHODS OF FORMING SAME**, and naming as

INVENTOR(S): Ralph BAUER, Eric MOCH, Jennifer H. CZEREPINSKI, Yves BOUSSANT-ROUX, Flavien FREMY.

("Invention") including without limitation, my entire right, title and interest in and to any and all United States and foreign applications (including international, regional and foreign national applications) for said Invention, including divisions, continuations, continuations-in-part, utility models, industrial designs, renewals, substitutes and extensions thereof, and in and to any and all patents, invention registrations, or other forms of protection ("Patents") of every country or region that may be granted or have been granted for said Invention, including any reissues and reexaminations thereof.

To comply with 37 C.F.R. § 3.21 for recording this Assignment, I authorize and request that the application number and filing date be inserted here, if not already shown above, (\_\_\_\_\_/\_\_\_\_\_, filed \_\_\_\_\_) when they become known.

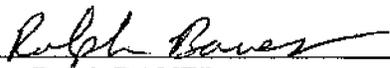
I authorize Assignee to apply for and be granted patents in the United States and foreign countries for said Invention, and to claim all rights of priority without further authorization from me.

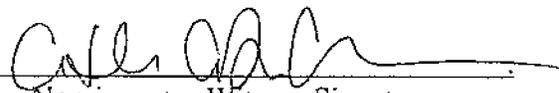
I agree that, upon request and without further compensation, but at no expense to me, I and/or my legal representatives and assigns will do all lawful acts, including the execution of papers and the giving of testimony, that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing the Patents in the United States and throughout the world for said Invention, and for perfecting, recording, or maintaining the title of Assignee, its successors and assigns, to said Invention, said application, and any Patents granted for said Invention in the United States and throughout the world.

I hereby covenant that no assignment, sale, license, agreement, or encumbrance has been or will be made or entered into that would conflict with this Assignment.

I authorize and request the Director of the United States Patent and Trademark Office and agencies, departments, or other similar offices and officials of all foreign countries to issue any Patents granted for said Invention, whether on said application or on any subsequently filed divisional, continuation, continuation-in-part, reexamination, reissue or other application, to Assignee, its successors and assigns, as the assignee of the entire interest in said Invention.

=====

Executed on July 27, 2017 by   
Ralph BAUER

Witnessed on July 27, 2017 by   
Non-inventor Witness Signature

=====

Executed on \_\_\_\_\_, 201\_\_ by \_\_\_\_\_  
Eric MOCH

Witnessed on \_\_\_\_\_, 201\_\_ by \_\_\_\_\_  
Non-inventor Witness Signature

=====

Executed on \_\_\_\_\_, 201\_\_ by \_\_\_\_\_  
Jennifer H. CZEREPINSKI

Witnessed on \_\_\_\_\_, 201\_\_ by \_\_\_\_\_  
Non-inventor Witness Signature

=====

I authorize Assignee to apply for and be granted patents in the United States and foreign countries for said Invention, and to claim all rights of priority without further authorization from me.

I agree that, upon request and without further compensation, but at no expense to me, I and/or my legal representatives and assigns will do all lawful acts, including the execution of papers and the giving of testimony, that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing the Patents in the United States and throughout the world for said Invention, and for perfecting, recording, or maintaining the title of Assignee, its successors and assigns, to said Invention, said application, and any Patents granted for said Invention in the United States and throughout the world.

I hereby covenant that no assignment, sale, license, agreement, or encumbrance has been or will be made or entered into that would conflict with this Assignment.

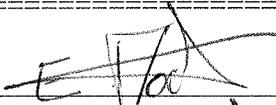
I authorize and request the Director of the United States Patent and Trademark Office and agencies, departments, or other similar offices and officials of all foreign countries to issue any Patents granted for said Invention, whether on said application or on any subsequently filed divisional, continuation, continuation-in-part, reexamination, reissue or other application, to Assignee, its successors and assigns, as the assignee of the entire interest in said Invention.

=====

Executed on \_\_\_\_\_, 201\_\_ by \_\_\_\_\_  
Ralph BAUER

Witnessed on \_\_\_\_\_, 201\_\_ by \_\_\_\_\_  
Non-inventor Witness Signature

=====

Executed on November 15<sup>th</sup>, 2017 by   
Eric MOCH

Witnessed on November 15<sup>th</sup>, 2017 by   
Non-inventor Witness Signature

=====

Executed on \_\_\_\_\_, 201\_\_ by \_\_\_\_\_  
Jennifer H. CZEREPINSKI

Witnessed on \_\_\_\_\_, 201\_\_ by \_\_\_\_\_  
Non-inventor Witness Signature

=====

I authorize Assignee to apply for and be granted patents in the United States and foreign countries for said Invention, and to claim all rights of priority without further authorization from me.

I agree that, upon request and without further compensation, but at no expense to me, I and/or my legal representatives and assigns will do all lawful acts, including the execution of papers and the giving of testimony, that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing the Patents in the United States and throughout the world for said Invention, and for perfecting, recording, or maintaining the title of Assignee, its successors and assigns, to said Invention, said application, and any Patents granted for said Invention in the United States and throughout the world.

I hereby covenant that no assignment, sale, license, agreement, or encumbrance has been or will be made or entered into that would conflict with this Assignment.

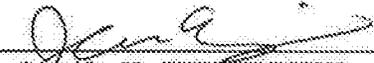
I authorize and request the Director of the United States Patent and Trademark Office and agencies, departments, or other similar offices and officials of all foreign countries to issue any Patents granted for said Invention, whether on said application or on any subsequently filed divisional, continuation, continuation-in-part, reexamination, reissue or other application, to Assignee, its successors and assigns, as the assignee of the entire interest in said Invention.

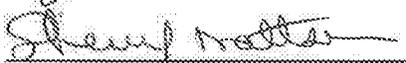
Executed on \_\_\_\_\_, 201\_\_ by \_\_\_\_\_  
Ralph BAUER

Witnessed on \_\_\_\_\_, 201\_\_ by \_\_\_\_\_  
Non-inventor Witness Signature

Executed on \_\_\_\_\_, 201\_\_ by \_\_\_\_\_  
Eric MOCH

Witnessed on \_\_\_\_\_, 201\_\_ by \_\_\_\_\_  
Non-inventor Witness Signature

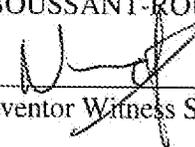
Executed on May 16, 2017 by   
Jennifer H. CZEREPINSKI

Witnessed on May 16, 2017 by   
Non-inventor Witness Signature

Executed on 11 Sep, 2017 by \_\_\_\_\_

  
Yves BOUSSANT-ROUX

Witnessed on 12/09, 2017 by \_\_\_\_\_

  
Non-inventor Witness Signature E. DONNET

Executed on \_\_\_\_\_, 201\_\_ by \_\_\_\_\_

Flavien FREMY

Witnessed on \_\_\_\_\_, 201\_\_ by \_\_\_\_\_

Non-inventor Witness Signature

---

---

Executed on \_\_\_\_\_, 201\_\_ by \_\_\_\_\_  
Yves BOUSSANT-ROUX

Witnessed on \_\_\_\_\_, 201\_\_ by \_\_\_\_\_  
Non-inventor Witness Signature

---

---

Executed on May 12<sup>th</sup>, 2017 by \_\_\_\_\_  
Flavien FREMY

Witnessed on 5/12/17, 2017 by \_\_\_\_\_  
Non-inventor Witness Signature