

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MATTHEW A. SIMPSON	06/17/2013
RECEIVING PARTY DATA	
Name:	SAINT-GOBAIN CERAMICS & PLASTICS, INC.
Street Address:	One New Bond Street
City:	Worcester
State/Country:	MASSACHUSETTS
Postal Code:	01615-0138
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13472179
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DATE SIGNED:	04/17/2014
Total Attachments: 2	
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ASSIGNMENT OF INVENTION

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

Matthew A. Simpson of Evergreen, CO 80439, USA

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 01615-0138,

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.: 13/472,179, filed on May 15, 2012, or
- International Application No.: PCI/ _____, filed on _____.

ENTITLED: **SAPPHIRE SUBSTRATES AND METHODS OF MAKING SAME**, and naming as

INVENTOR(S): Brahmanandam V. Tanikella, Palaniappan Chinnakaruppan, Robert A. Rizzuto, Isaac K. Cherian, Ramanujam Vedantham and Matthew A. Simpson.

("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 17 June, 2013 by Matthew A. Simpson
Matthew A. Simpson

Witnessed on June 17, 2013 by [Signature]
Non-Inventor Witness Signature
E. Young Debe