505306335 01/31/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MICHAEL TERRANCE MCLAUGHLIN II	12/06/2018

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:	16182997				

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	16-BI-0122US02
NAME OF SUBMITTER:	ALEKS KOCHAN
SIGNATURE:	/Aleks Kochan/
DATE SIGNED:	01/31/2019

Total Attachments: 2

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PATENT 505306335 REEL: 048204 FRAME: 0216

Attorney Docket No.: 16-BI-0122US02

ASSIGNMENT OF INVENTION

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

Michael Terrance McLAUGHLIN II of Lyndhurst, OH US

hereby sell, assign and transfer to

	 '	
A:	SSIGNEE:	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:

ncluding all rights	s to claim priority, in and to t	he invention disclosed in:	
U.S. Patent A U.S. Patent A	pplication executed on or ab	out the date of this Assignment, , filed on , n November 07, 2018, or	
U.S. Provisio	nal Application	, filed on,	
U.S. Applicat	ion No.: 16/182,997, filed o	n November 07, 2018, or	
International.	Application No.: PCT/	, filed on	_,
ENTITLED:	APPARATUS COMPRIS	ING A SEMICONDUCTOR-BASED ND METHOD REGARDING GAIN	ŀ
INVENTOR(S):	Michael Terrance McLAU	SHLIN II.	

("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		§ 3.21	for rec	ordu	ig this As	signme	nt, I	auth	orize and	request	that the
application	number	and	filing	date	be	inserted	here,	if	not	already	shown	above,
(/	***************************************	filed		~~~~~) when	they	becc	me know	n.	

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 Dec 6, 2018 by [Month-day-year]	Muhall J Me Jay L. Michael Terrance McLAUGHLIN II
(massimi cum) Jours	1,1101/60% 1 6/1/6/60 1/10/10/20 6/1/10/10/10/10/10/10/10/10/10/10/10/10/1
Witnessed on $12-6-18$ by	fakk hr.
[Month-day-year]	Non-inventor Witness Signature
francius and James	TOOL SILVERSON IN SOCIOUS CONTRACTOR