#### 506521843 02/24/2021

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6568618

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
CHRISTOPHE R.G. GRENIER	10/10/2019
VENKATESHWARLU KALSANI	10/14/2019
HONG LI	10/14/2019
RONNIE A.J. PESKENS	11/25/2019
CALUM H. MUNRO	10/23/2019
SHUANG MA	10/10/2019
STUART D. HELLRING	10/21/2019
RANDY E. DAUGHENBAUGH	10/14/2019
ARIF MUBAROK	10/14/2019

# **RECEIVING PARTY DATA**

Name:	PPG INDUSTRIES OHIO, INC.
Street Address:	3800 WEST 143RD STREET
City:	CLEVELAND
State/Country:	ОНЮ
Postal Code:	44111

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	17271029

# **CORRESPONDENCE DATA**

Fax Number: (412)434-4292

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.

Phone: 412-434-2918 Email: ipdocket@ppg.com PPG INDUSTRIES, INC. Correspondent Name: Address Line 1: ONE PPG PLACE

Address Line 2: 39TH FLOOR, IP LAW GROUP

Address Line 4: PITTSBURGH, PENNSYLVANIA 15272

ATTORNEY DOCKET NUMBER: 17011772A1/US CHRISTINE J. GRAFF NAME OF SUBMITTER:

PAIENI

**REEL: 055392 FRAME: 0409** 506521843

SIGNATURE:	/Christine J. Graff/			
DATE SIGNED:	02/24/2021			
Total Attachments: 18				
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source=17011772A1US-Assignments#p	age2.tif			
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IN CONSIDERATION of good and valuable considerations received from PPG INDUSTRIES OHIO, INC., a corporation of Delaware, having a place of business at Cleveland, Ohio, and intending to be legally bound hereby, I, <u>Christophe R. G. Grenier</u>, do hereby sell, assign and set over unto PPG INDUSTRIES OHIO, INC., the entire right, title and interest in and to my invention of improvements in

# BATTERY COMPRISING AN INTUMESCENT LAYER

as set forth in my application for Letters Patent of the United States of America, in and for the United States and all foreign countries, the same to be held and enjoyed by PPG INDUSTRIES OHIO, INC., its successors, assigns, or legal representatives, to the full ends of the terms for which all Letters Patent therefor may be granted, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made.

AND I HEREBY AUTHORIZE PPG INDUSTRIES OHIO, INC., to make application for and to receive Letters Patent for said invention in any or all foreign countries in its own name, or in any name, at its election.

AND I HEREBY COVENANT AND AGREE that I will execute or procure any further necessary assurance of the title to said invention and Letters Patent; and that I will at any time, upon the request and at the expense of PPG INDUSTRIES OHIO, INC., execute and deliver any and all papers that may be necessary or desirable to perfect the title to said invention or any Letters Patent which may be granted therefor, in PPG INDUSTRIES OHIO, INC., its successors, assigns, or other legal representatives, and that I will, at any time, upon the request and at the expense of PPG INDUSTRIES OHIO, INC., testify in any legal proceeding, sign all lawful papers, execute any additional, divisional, continuing or reissue applications for patents for said invention, or any part or parts thereof, make all rightful oaths and generally do all lawful acts to aid PPG INDUSTRIES OHIO, INC., its successors, assigns, or other legal representatives to obtain and enforce patent protection on said invention in all countries, without further compensation, but at the expense of PPG INDUSTRIES OHIO, INC., its successors, assigns, or other legal representatives.

AND I HEREBY AUTHORIZE AND REQUEST the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States for said invention, or resulting from said application, or from any division, reissue, or extension thereof, to PPG INDUSTRIES OHIO, INC., as sole assignee.

17011772

NAME OF INVENTOR:						
First Name: Christophe	Middle Name or Initial: R. G.	Famíl	y Name or Surname:	Grenier		
Residence City: Pittsburgh	State: PA		Country: US	Citizenship: US		
	Mailing Address: 594 Dorseyville Road					
Pittsburgh, PA 1523	Pittsburgh, PA 15238					
Signature: 2224 Date: 10/10/2019						

Cheure Benow

IN CONSIDERATION of good and valuable considerations received from PPG INDUSTRIES OHIO, INC., a corporation of Delaware, having a place of business at Cleveland, Ohio, and intending to be legally bound hereby, I, <u>Venkateshwarlu Kalsani</u>, do hereby sell, assign and set over unto PPG INDUSTRIES OHIO, INC., the entire right, title and interest in and to my invention of improvements in

# BATTERY COMPRISING AN INTUMESCENT LAYER

as set forth in my application for Letters Patent of the United States of America, in and for the United States and all foreign countries, the same to be held and enjoyed by PPG INDUSTRIES OHIO, INC., its successors, assigns, or legal representatives, to the full ends of the terms for which all Letters Patent therefor may be granted, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made.

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irst Name: Venkateshwariu	Middle Name or Initial:	Fami	ly Name or Surname:	Kalsani
Residence City: Gibsonia	State: PA		Country: US	Citizenship: US
Nailing Address: 403 Minglewoo Gibsonia, PA 15	J Drive 044	***************************************		
Strengtone /		Date:	The state of the s	Y .85 (%

IN CONSIDERATION of good and valuable considerations received from PPG INDUSTRIES

OHIO, INC., a corporation of Delaware, having a place of business at Cleveland, Ohio, and intending

to be legally bound hereby, I, Hong Li, do hereby sell, assign and set over unto PPG INDUSTRIES

OHIO, INC., the entire right, title and interest in and to my invention of improvements in

BATTERY COMPRISING AN INTUMESCENT LAYER

as set forth in my application for Letters Patent of the United States of America, in and for the United

States and all foreign countries, the same to be held and enjoyed by PPG INDUSTRIES OHIO, INC.,

its successors, assigns, or legal representatives, to the full ends of the terms for which all Letters Patent

therefor may be granted, as fully and entirely as the same would have been held and enjoyed by me if

this assignment and sale had not been made.

AND I HEREBY AUTHORIZE PPG INDUSTRIES OHIO, INC., to make application for and

to receive Letters Patent for said invention in any or all foreign countries in its own name, or in any

name, at its election.

AND I HEREBY COVENANT AND AGREE that I will execute or procure any further

necessary assurance of the title to said invention and Letters Patent; and that I will at any time, upon

the request and at the expense of PPG INDUSTRIES OHIO, INC., execute and deliver any and all

papers that may be necessary or desirable to perfect the title to said invention or any Letters Patent

which may be granted therefor, in PPG INDUSTRIES OHIO, INC., its successors, assigns, or other

legal representatives, and that I will, at any time, upon the request and at the expense of PPG

INDUSTRIES OHIO, INC., testify in any legal proceeding, sign all lawful papers, execute any

additional, divisional, continuing or reissue applications for patents for said invention, or any part or

parts thereof, make all rightful oaths and generally do all lawful acts to aid PPG INDUSTRIES OHIO,

INC., its successors, assigns, or other legal representatives to obtain and enforce patent protection on

said invention in all countries, without further compensation, but at the expense of PPG INDUSTRIES

OHIO, INC., its successors, assigns, or other legal representatives.

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Trademarks to issue any and all Letters Patent of the United States for said invention, or resulting from

said application, or from any division, reissue, or extension thereof, to PPG INDUSTRIES OHIO,

INC., as sole assignee.

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	NAME OF INVENTOR:	×				
-	First Name: Hong	Middle Name or Initial:	Famil	y Name or Suman	ne: Li	
	Residence City: Mars	State: PA		Country: US	Cit	tizenship: CN
-	Mailing Address: 203 Pointe View Driv Mars, PA 16046	re				
************	Signature: (/)	<b>S</b>	ate;	10/14/2	0) []	

IN CONSIDERATION of good and valuable considerations received from PPG INDUSTRIES

OHIO, INC., a corporation of Delaware, having a place of business at Cleveland, Ohio, and intending

to be legally bound hereby, I, Ronnie A. J. Peskens, do hereby sell, assign and set over unto PPG

INDUSTRIES OHIO, INC., the entire right, title and interest in and to my invention of improvements

in

BATTERY COMPRISING AN INTUMESCENT LAYER

as set forth in my application for Letters Patent of the United States of America, in and for the United

States and all foreign countries, the same to be held and enjoyed by PPG INDUSTRIES OHIO, INC.,

its successors, assigns, or legal representatives, to the full ends of the terms for which all Letters Patent

therefor may be granted, as fully and entirely as the same would have been held and enjoyed by me if

this assignment and sale had not been made.

AND I HEREBY AUTHORIZE PPG INDUSTRIES OHIO, INC., to make application for and

to receive Letters Patent for said invention in any or all foreign countries in its own name, or in any

name, at its election.

AND I HEREBY COVENANT AND AGREE that I will execute or procure any further

necessary assurance of the title to said invention and Letters Patent; and that I will at any time, upon

the request and at the expense of PPG INDUSTRIES OHIO, INC., execute and deliver any and all

papers that may be necessary or desirable to perfect the title to said invention or any Letters Patent

which may be granted therefor, in PPG INDUSTRIES OHIO, INC., its successors, assigns, or other

legal representatives, and that I will, at any time, upon the request and at the expense of PPG

INDUSTRIES OHIO, INC., testify in any legal proceeding, sign all lawful papers, execute any

additional, divisional, continuing or reissue applications for patents for said invention, or any part or

parts thereof, make all rightful oaths and generally do all lawful acts to aid PPG INDUSTRIES OHIO,

INC., its successors, assigns, or other legal representatives to obtain and enforce patent protection on

said invention in all countries, without further compensation, but at the expense of PPG INDUSTRIES

OHIO, INC., its successors, assigns, or other legal representatives.

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Trademarks to issue any and all Letters Patent of the United States for said invention, or resulting from

said application, or from any division, reissue, or extension thereof, to PPG INDUSTRIES OHIO,

INC., as sole assignee.

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First Name: Ronnie	Middle Name or Initial: A. J.	or Family Name or Surname: Peskens		
Residence City: Haarlem	State:	Country; NL	Citizenship: NL	
Mailing Address: Diakenhuiswo Haarlem 2033 Signature:	AP, Netherlands	Date: Nov. 25 20	ia a	
Miccepu				
Witness				

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IN CONSIDERATION of good and valuable considerations received from PPG INDUSTRIES OHIO, INC., a corporation of Delaware, having a place of business at Cleveland, Ohio, and intending to be legally bound hereby, I, <u>Calum H. Munro</u>, do hereby sell, assign and set over unto PPG INDUSTRIES OHIO, INC., the entire right, title and interest in and to my invention of improvements in

# BATTERY COMPRISING AN INTUMESCENT LAYER

as set forth in my application for Letters Patent of the United States of America, in and for the United States and all foreign countries, the same to be held and enjoyed by PPG INDUSTRIES OHIO, INC., its successors, assigns, or legal representatives, to the full ends of the terms for which all Letters Patent therefor may be granted, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made.

AND I HEREBY AUTHORIZE PPG INDUSTRIES OHIO, INC., to make application for and to receive Letters Patent for said invention in any or all foreign countries in its own name, or in any name, at its election.

AND I HEREBY COVENANT AND AGREE that I will execute or procure any further necessary assurance of the title to said invention and Letters Patent; and that I will at any time, upon the request and at the expense of PPG INDUSTRIES OHIO, INC., execute and deliver any and all papers that may be necessary or desirable to perfect the title to said invention or any Letters Patent which may be granted therefor, in PPG INDUSTRIES OHIO, INC., its successors, assigns, or other legal representatives, and that I will, at any time, upon the request and at the expense of PPG INDUSTRIES OHIO, INC., testify in any legal proceeding, sign all lawful papers, execute any additional, divisional, continuing or reissue applications for patents for said invention, or any part or parts thereof, make all rightful oaths and generally do all lawful acts to aid PPG INDUSTRIES OHIO, INC., its successors, assigns, or other legal representatives to obtain and enforce patent protection on said invention in all countries, without further compensation, but at the expense of PPG INDUSTRIES OHIO, INC., its successors, assigns, or other legal representatives.

AND I HEREBY AUTHORIZE AND REQUEST the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States for said invention, or resulting from said application, or from any division, reissue, or extension thereof, to PPG INDUSTRIES OHIO, INC., as sole assignee.

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NAME OF INVENTOR:					
irst Name: Calum	Middle Name or initial: H.	amil	y Name or	Surname: ]	Munro
Residence City: Gibsonia	State: PA		Country	US	Citizenship: GB
dailing Address: 1805 South Villa Dr Gibsonia, PA 15044	ive				<u> </u>
Signature: IC		Pate:	2.3	<i>Oct.</i> , 2	2019

IN CONSIDERATION of good and valuable considerations received from PPG INDUSTRIES

OHIO, INC., a corporation of Delaware, having a place of business at Cleveland, Ohio, and intending

to be legally bound hereby, I, Shuang Ma, do hereby sell, assign and set over unto PPG INDUSTRIES

OHIO, INC., the entire right, title and interest in and to my invention of improvements in

BATTERY COMPRISING AN INTUMESCENT LAYER

as set forth in my application for Letters Patent of the United States of America, in and for the United

States and all foreign countries, the same to be held and enjoyed by PPG INDUSTRIES OHIO, INC.,

its successors, assigns, or legal representatives, to the full ends of the terms for which all Letters Patent

therefor may be granted, as fully and entirely as the same would have been held and enjoyed by me if

this assignment and sale had not been made.

AND I HEREBY AUTHORIZE PPG INDUSTRIES OHIO, INC., to make application for and

to receive Letters Patent for said invention in any or all foreign countries in its own name, or in any

name, at its election.

AND I HEREBY COVENANT AND AGREE that I will execute or procure any further

necessary assurance of the title to said invention and Letters Patent; and that I will at any time, upon

the request and at the expense of PPG INDUSTRIES OHIO, INC., execute and deliver any and all

papers that may be necessary or desirable to perfect the title to said invention or any Letters Patent

which may be granted therefor, in PPG INDUSTRIES OHIO, INC., its successors, assigns, or other

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legal representatives, and that I will, at any time, upon the request and at the expense of PPG

INDUSTRIES OHIO, INC., testify in any legal proceeding, sign all lawful papers, execute any

additional, divisional, continuing or reissue applications for patents for said invention, or any part or

parts thereof, make all rightful oaths and generally do all lawful acts to aid PPG INDUSTRIES OHIO,

INC., its successors, assigns, or other legal representatives to obtain and enforce patent protection on

said invention in all countries, without further compensation, but at the expense of PPG INDUSTRIES

OHIO, INC., its successors, assigns, or other legal representatives.

AND I HEREBY AUTHORIZE AND REQUEST the Commissioner of Patents and

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said application, or from any division, reissue, or extension thereof, to PPG INDUSTRIES OHIO,

INC., as sole assignee.

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NAME OF INVENTOR:				
First Name: Shuang	Middle Name or Initial:	me or Family Name or Surname: Ma		
Residence City; Nieuw Vennep	State:		Country: NL	Citizenship: CN
Mailing Address: Klaproosstraat 48 Nieuw-Vennep 2	153 CS, Netherlands			
Signature: SAMa		Date:	10/10/2	19
	KEGS VAN U	liet		
Witness				
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IN CONSIDERATION of good and valuable considerations received from PPG INDUSTRIES OHIO, INC., a corporation of Delaware, having a place of business at Cleveland, Ohio, and intending to be legally bound hereby, I, Stuart D. Hellring, do hereby sell, assign and set over unto PPG INDUSTRIES OHIO, INC., the entire right, title and interest in and to my invention of improvements in

# BATTERY COMPRISING AN INTUMESCENT LAYER

as set forth in my application for Letters Patent of the United States of America, in and for the United States and all foreign countries, the same to be held and enjoyed by PPG INDUSTRIES OHIO, INC., its successors, assigns, or legal representatives, to the full ends of the terms for which all Letters Patent therefor may be granted, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made.

AND I HEREBY AUTHORIZE PPG INDUSTRIES OHIO, INC., to make application for and to receive Letters Patent for said invention in any or all foreign countries in its own name, or in any name, at its election.

AND I HEREBY COVENANT AND AGREE that I will execute or procure any further necessary assurance of the title to said invention and Letters Patent; and that I will at any time, upon the request and at the expense of PPG INDUSTRIES OHIO, INC., execute and deliver any and all papers that may be necessary or desirable to perfect the title to said invention or any Letters Patent which may be granted therefor, in PPG INDUSTRIES OHIO, INC., its successors, assigns, or other legal representatives, and that I will, at any time, upon the request and at the expense of PPG INDUSTRIES OHIO, INC., testify in any legal proceeding, sign all lawful papers, execute any additional, divisional, continuing or reissue applications for patents for said invention, or any part or parts thereof, make all rightful oaths and generally do all lawful acts to aid PPG INDUSTRIES OHIO, INC., its successors, assigns, or other legal representatives to obtain and enforce patent protection on said invention in all countries, without further compensation, but at the expense of PPG INDUSTRIES OHIO, INC., its successors, assigns, or other legal representatives.

AND I HEREBY AUTHORIZE AND REQUEST the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States for said invention, or resulting from said application, or from any division, reissue, or extension thereof, to PPG INDUSTRIES OHIO, INC., as sole assignee.

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NAME OF INVENTOR:				
Pirst Name: Stuart	Middle Name or initial: D.	amil	y Name or Sumame:	Hellring
Residence City: Pittsburgh	State: PA	State: PA		Citizenship: US
Mailing Address: 130 Oak Park P Pittsburgh, PA 1				
signature & Lille	The same of the sa	Date:	A 21,20	19

Witness

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IN CONSIDERATION of good and valuable considerations received from PPG INDUSTRIES

OHIO, INC., a corporation of Delaware, having a place of business at Cleveland, Ohio, and intending

to be legally bound hereby, I, Randy E. Daughenbaugh, do hereby sell, assign and set over unto PPG

INDUSTRIES OHIO, INC., the entire right, title and interest in and to my invention of improvements

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BATTERY COMPRISING AN INTUMESCENT LAYER

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said application, or from any division, reissue, or extension thereof, to PPG INDUSTRIES OHIO,

INC., as sole assignee.

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NAME OF INVENTOR:						
irst Name: Randy		Niddle Name or Initial: E.	ami	amily Name or Surname: Daughenbaugh		
Residence City: Monroeville		State: PA	Country: US Citizen		Citizenship: US	
Mailing Address: 106 Her Monroe	ritage Drive wille, PA 151	46	************			
Signature:				16-14-14		
77						

IN CONSIDERATION of good and valuable considerations received from PPG INDUSTRIES

OHIO, INC., a corporation of Delaware, having a place of business at Cleveland, Ohio, and intending

to be legally bound hereby, I, Arif Mubarok, do hereby sell, assign and set over unto PPG

INDUSTRIES OHIO, INC., the entire right, title and interest in and to my invention of improvements

in

BATTERY COMPRISING AN INTUMESCENT LAYER

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INC., as sole assignee.

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NAME OF INVENTOR:								
irst Name: Arif	Niddle Name or Initial:	Family Name or Surname:	Mubarok					
Residence City: Pittsburgh	State: PA	Country: US	Citizenship: US					
Mailing Address: 1770 Foxcroft Lane, Unit 205, Allison Park, PA 15101								
Signature: Przyf 1646	urzak	Date: 10/14/19						

Witness

17011772

**RECORDED: 02/24/2021**