

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT6001398

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MICHAEL BECH MALMQVIST	07/24/2019
BILLY JAY CAIRNS	07/22/2019
CARL CAMILLE MUELLER	07/22/2019
JOHN THOMAS BARON	07/22/2019
JAMES T DIETZ	07/22/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	KOPPERS DELAWARE, INC.
<b>Street Address:</b>	436 SEVENTH AVENUE
<b>City:</b>	PITTSBURGH
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	15219
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16520135
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(412)918-1199
<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>	4129181110
<b>Email:</b>	ipdocket@metzlewis.com
<b>Correspondent Name:</b>	BARRY I FRIEDMAN
<b>Address Line 1:</b>	535 SMITHFIELD STREET, SUITE 800
<b>Address Line 4:</b>	PITTSBURGH, PENNSYLVANIA 15222
<b>ATTORNEY DOCKET NUMBER:</b>	1466/063
<b>NAME OF SUBMITTER:</b>	BARRY I FRIEDMAN
<b>SIGNATURE:</b>	/Barry I Friedman/
<b>DATE SIGNED:</b>	03/06/2020
<b>Total Attachments: 17</b>	
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**INTELLECTUAL PROPERTY AND TECHNOLOGY ASSIGNMENT**

This is an Assignment, having an effective date of July 24<sup>th</sup>, 2019, by and between:

Michael Bech Malmqvist, an individual, having an address of Klokkens Kvarter 24, 5220 Odense SOE, Denmark (the "Assignor"); and

Koppers Delaware, Inc., a Delaware corporation, having its principal office and place of business at 436 Seventh Avenue, Pittsburgh, Pennsylvania 15219 (the "Assignee").

Assignor owns an undivided partial interest in and to certain technology and intellectual property, including, but not limited to, as described in the applications and patents identified on Schedule A hereto (the "Intellectual Property"). Assignee is desirous of acquiring all right, title and interest in and to the Intellectual Property.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and does hereby sell, assign, transfer and set over to Assignee all of Assignor's right, title and interest in and to the Intellectual Property and all intellectual property rights associated therewith, including, but not limited to, all works of authorship, text, graphics, drawings, plans, computer code and mask works, whether copyrightable or not; all trade secrets, confidential information, technical and non-technical know-how associated or utilized in conjunction with the Intellectual Property together with any patent applications including the same for the United States and all foreign countries and any Letters Patent that may issue therefor in the United States and any foreign countries, together with all divisions, reissues, continuations, applications or patents claiming the benefit thereof, renewals, and extensions thereof including all priority rights under the International Convention associated therewith; the same to be held and enjoyed by Assignee for its own use and enjoyment, and for the use and enjoyment of its successors, assigns and other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made, for the use and benefit of its successors, assigns or other legal representatives.

Assignor agrees that it, and its legal representatives or other persons duly authorized, will communicate to Assignee or the representatives thereof any facts known to it respecting said Intellectual Property and will, upon request, testify in any legal proceedings, sign all lawful papers, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by Assignee or by counsel for Assignee, to assist or enable Assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon Assignor's successors and assigns and shall inure to the benefit of the successors and/or assigns of Assignee.

Assignor represents that it has sole, exclusive, valid and unencumbered title to its interest in the Intellectual Property, and will convey title that is clear of any liens, mortgages, security interests, licenses or other agreements or encumbrances thereon or thereto. Assignor further agrees to waive all rights and privileges to attack the utility, novelty or validity of any or all of any patents included in or which issue from said Intellectual Property or the validity of any other intellectual property rights associated with the Intellectual Property which Assignor has assigned as against anyone claiming a right under any or all of the aforementioned rights under Assignor's assignment or grant.

This Agreement may be executed in any number of counterparts, each of which shall be deemed an original, but all of which together shall constitute one instrument.

IN TESTIMONY WHEREOF, the parties hereto have caused these presents to be executed by their officers duly appointed at the respective locations identified herein.

MICHAEL BECH MALMQVIST

Michael Bech Malmqvist

STATE OF \_\_\_\_\_  
COUNTY OF Denmark

SS:

On this \_\_\_\_\_ day of \_\_\_\_\_, 2019, before me, a Notary Public, the undersigned officer, personally appeared Michael Bech Malmqvist, who duly executed the foregoing Intellectual Property and Technology Assignment for the purposes therein contained.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

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

KOPPERS DELAWARE, INC.

By: \_\_\_\_\_

Name: Steven R. Lacy

Title: Secretary

STATE OF Pennsylvania  
COUNTY OF Allegheny

SS:

On this 8th day of August, 2019, before me, a Notary Public, the undersigned officer, personally appeared Steven R. Lacy, who acknowledged himself to be the Secretary of Koppers Delaware, Inc., a Delaware corporation, and declared that as such officer, he duly executed the foregoing Intellectual Property and Technology Assignment for the purposes therein contained, and is entitled to sign the Assignment document alone and on behalf of Koppers Delaware, Inc.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

Mary Beth Bertoni  
Notary Public

Commonwealth of Pennsylvania - Notary Seal  
MARY BETH BERTONI - Notary Public  
Allegheny County  
My Commission Expires Feb 6, 2023  
Commission Number 1288474

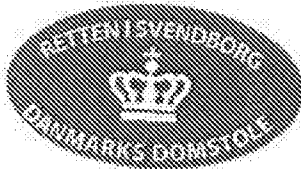


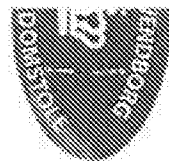
This is to certify that Michael Bech Malmqvist today in my presence at the Notarial Office approved and signed the above document. No conspicuous corrections or addenda were found in the document.

Michael Bech Malmqvist has proved his identity by showing passport.

The Court in Svendborg - DK, 05.08.2019

  
Gitte Knudsen  
Notary Public





**SCHEDULE A**

Title: Heat Treatment Process and System for Increased Pitch Yields

United States Patent Application Serial No. 16/520,135

Filed: July 23, 2019

## INTELLECTUAL PROPERTY AND TECHNOLOGY ASSIGNMENT

This is an Assignment, having an effective date of July 22, 2019, by and between:

Billy Jay Cairns, an individual, having an address of 110 Douglas Lane, Monaca, Pennsylvania 15061 (the "Assignor"); and

Koppers Delaware, Inc., a Delaware corporation, having its principal office and place of business at 436 Seventh Avenue, Pittsburgh, Pennsylvania 15219 (the "Assignee").

Assignor owns an undivided partial interest in and to certain technology and intellectual property, including, but not limited to, as described in the applications and patents identified on Schedule A hereto (the "Intellectual Property"). Assignee is desirous of acquiring all right, title and interest in and to the Intellectual Property.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and does hereby sell, assign, transfer and set over to Assignee all of Assignor's right, title and interest in and to the Intellectual Property and all intellectual property rights associated therewith, including, but not limited to, all works of authorship, text, graphics, drawings, plans, computer code and mask works, whether copyrightable or not; all trade secrets, confidential information, technical and non-technical know-how associated or utilized in conjunction with the Intellectual Property together with any patent applications including the same for the United States and all foreign countries and any Letters Patent that may issue therefor in the United States and any foreign countries, together with all divisions, reissues, continuations, applications or patents claiming the benefit thereof, renewals, and extensions thereof including all priority rights under the International Convention associated therewith; the same to be held and enjoyed by Assignee for its own use and enjoyment, and for the use and enjoyment of its successors, assigns and other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made, for the use and benefit of its successors, assigns or other legal representatives.

Assignor agrees that it, and its legal representatives or other persons duly authorized, will communicate to Assignee or the representatives thereof any facts known to it respecting said Intellectual Property and will, upon request, testify in any legal proceedings, sign all lawful papers, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by Assignee or by counsel for Assignee, to assist or enable Assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon Assignor's successors and assigns and shall inure to the benefit of the successors and/or assigns of Assignee.

Assignor represents that it has sole, exclusive, valid and unencumbered title to its interest in the Intellectual Property, and will convey title that is clear of any liens, mortgages, security interests, licenses or other agreements or encumbrances thereon or thereto. Assignor further agrees to waive all rights and privileges to attack the utility, novelty or validity of any or all of any patents included in or which issue from said Intellectual Property or the validity of any other intellectual property rights associated with the Intellectual Property which Assignor has assigned as against anyone claiming a right under any or all of the aforementioned rights under Assignor's assignment or grant.

This Agreement may be executed in any number of counterparts, each of which shall be deemed an original, but all of which together shall constitute one instrument.



IN TESTIMONY WHEREOF, the parties hereto have caused these presents to be executed by their officers duly appointed at the respective locations identified herein.

BILLY JAY CAIRNS

Billy Jay Cairns

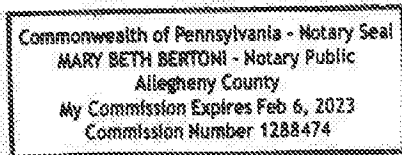
STATE OF Pennsylvania

COUNTY OF Allegheny

SS:

On this 22 day of July, 2019, before me, a Notary Public, the undersigned officer, personally appeared Billy Jay Cairns, who duly executed the foregoing Intellectual Property and Technology Assignment for the purposes therein contained.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.



Mary Beth Bertoni  
Notary Public

KOPPERS DELAWARE, INC.

By: Steven R. Lacy

Name: Steven R. Lacy

Title: Secretary

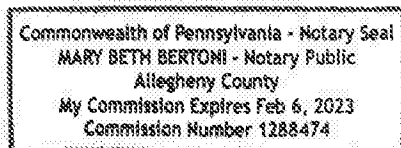
STATE OF Pennsylvania

COUNTY OF Allegheny

SS:

On this 23 day of July, 2019, before me, a Notary Public, the undersigned officer, personally appeared Steven R. Lacy, who acknowledged himself to be the Secretary of Koppers Delaware, Inc, a Delaware corporation, and declared that as such officer, he duly executed the foregoing Intellectual Property and Technology Assignment for the purposes therein contained, and is entitled to sign the Assignment document alone and on behalf of Koppers Delaware, Inc.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.



Mary Beth Bertoni  
Notary Public

**SCHEDULE A**

Title: Heat Treatment Process and System for Increased Pitch Yields

United States Patent Application Serial No. 16/520,135

Filed: July 23, 2019

## INTELLECTUAL PROPERTY AND TECHNOLOGY ASSIGNMENT

This is an Assignment, having an effective date of July 22, 2019, by and between:

Carl Camille Mueller, an individual, having an address of 1061 Woodhill Drive, Gibsonia, Pennsylvania 15044 (the "Assignor"); and

Koppers Delaware, Inc., a Delaware corporation, having its principal office and place of business at 436 Seventh Avenue, Pittsburgh, Pennsylvania 15219 (the "Assignee").

Assignor owns an undivided partial interest in and to certain technology and intellectual property, including, but not limited to, as described in the applications and patents identified on Schedule A hereto (the "Intellectual Property"). Assignee is desirous of acquiring all right, title and interest in and to the Intellectual Property.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and does hereby sell, assign, transfer and set over to Assignee all of Assignor's right, title and interest in and to the Intellectual Property and all intellectual property rights associated therewith, including, but not limited to, all works of authorship, text, graphics, drawings, plans, computer code and mask works, whether copyrightable or not; all trade secrets, confidential information, technical and non-technical know-how associated or utilized in conjunction with the Intellectual Property together with any patent applications including the same for the United States and all foreign countries and any Letters Patent that may issue therefor in the United States and any foreign countries, together with all divisions, reissues, continuations, applications or patents claiming the benefit thereof, renewals, and extensions thereof including all priority rights under the International Convention associated therewith; the same to be held and enjoyed by Assignee for its own use and enjoyment, and for the use and enjoyment of its successors, assigns and other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made, for the use and benefit of its successors, assigns or other legal representatives.

Assignor agrees that it, and its legal representatives or other persons duly authorized, will communicate to Assignee or the representatives thereof any facts known to it respecting said Intellectual Property and will, upon request, testify in any legal proceedings, sign all lawful papers, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by Assignee or by counsel for Assignee, to assist or enable Assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon Assignor's successors and assigns and shall inure to the benefit of the successors and/or assigns of Assignee.

Assignor represents that it has sole, exclusive, valid and unencumbered title to its interest in the Intellectual Property, and will convey title that is clear of any liens, mortgages, security interests, licenses or other agreements or encumbrances thereon or thereto. Assignor further agrees to waive all rights and privileges to attack the utility, novelty or validity of any or all of any patents included in or which issue from said Intellectual Property or the validity of any other intellectual property rights associated with the Intellectual Property which Assignor has assigned as against anyone claiming a right under any or all of the aforementioned rights under Assignor's assignment or grant.

This Agreement may be executed in any number of counterparts, each of which shall be deemed an original, but all of which together shall constitute one instrument.

IN TESTIMONY WHEREOF, the parties hereto have caused these presents to be executed by their officers duly appointed at the respective locations identified herein.

CARL CAMILLE MUELLER

Carl Camille Mueller

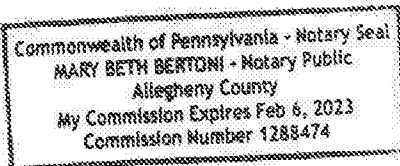
STATE OF Pennsylvania

COUNTY OF Allegheny

SS:

On this 22 day of July, 2019, before me, a Notary Public, the undersigned officer, personally appeared Carl Camille Mueller, who duly executed the foregoing Intellectual Property and Technology Assignment for the purposes therein contained.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.



Mary Beth Bertoni  
Notary Public

KOPPERS DELAWARE, INC.

By: Steven R. Lacy

Name: Steven R. Lacy

Title: Secretary

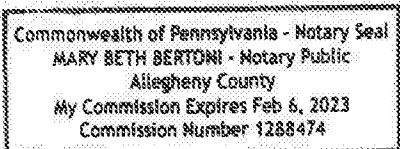
STATE OF Pennsylvania

COUNTY OF Allegheny

SS:

On this 23 day of July, 2019, before me, a Notary Public, the undersigned officer, personally appeared Steven R. Lacy, who acknowledged himself to be the Secretary of Koppers Delaware, Inc, a Delaware corporation, and declared that as such officer, he duly executed the foregoing Intellectual Property and Technology Assignment for the purposes therein contained, and is entitled to sign the Assignment document alone and on behalf of Koppers Delaware, Inc.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.



Mary Beth Bertoni  
Notary Public

**SCHEDULE A**

Title: Heat Treatment Process and System for Increased Pitch Yields

United States Patent Application Serial No. 16/520,135

Filed: July 23, 2019

## INTELLECTUAL PROPERTY AND TECHNOLOGY ASSIGNMENT

This is an Assignment, having an effective date of July 22, 2019, by and between:

John Thomas Baron, an individual, having an address of 649 Huntington Drive, Cranberry Township, Pennsylvania 16066 (the "Assignor"); and

Koppers Delaware, Inc., a Delaware corporation, having its principal office and place of business at 436 Seventh Avenue, Pittsburgh, Pennsylvania 15219 (the "Assignee").

Assignor owns an undivided partial interest in and to certain technology and intellectual property, including, but not limited to, as described in the applications and patents identified on Schedule A hereto (the "Intellectual Property"). Assignee is desirous of acquiring all right, title and interest in and to the Intellectual Property.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and does hereby sell, assign, transfer and set over to Assignee all of Assignor's right, title and interest in and to the Intellectual Property and all intellectual property rights associated therewith, including, but not limited to, all works of authorship, text, graphics, drawings, plans, computer code and mask works, whether copyrightable or not; all trade secrets, confidential information, technical and non-technical know-how associated or utilized in conjunction with the Intellectual Property together with any patent applications including the same for the United States and all foreign countries and any Letters Patent that may issue therefor in the United States and any foreign countries, together with all divisions, reissues, continuations, applications or patents claiming the benefit thereof, renewals, and extensions thereof including all priority rights under the International Convention associated therewith; the same to be held and enjoyed by Assignee for its own use and enjoyment, and for the use and enjoyment of its successors, assigns and other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made, for the use and benefit of its successors, assigns or other legal representatives.

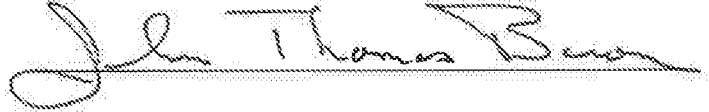
Assignor agrees that it, and its legal representatives or other persons duly authorized, will communicate to Assignee or the representatives thereof any facts known to it respecting said Intellectual Property and will, upon request, testify in any legal proceedings, sign all lawful papers, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by Assignee or by counsel for Assignee, to assist or enable Assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon Assignor's successors and assigns and shall inure to the benefit of the successors and/or assigns of Assignee.

Assignor represents that it has sole, exclusive, valid and unencumbered title to its interest in the Intellectual Property, and will convey title that is clear of any liens, mortgages, security interests, licenses or other agreements or encumbrances thereon or thereto. Assignor further agrees to waive all rights and privileges to attack the utility, novelty or validity of any or all of any patents included in or which issue from said Intellectual Property or the validity of any other intellectual property rights associated with the Intellectual Property which Assignor has assigned as against anyone claiming a right under any or all of the aforementioned rights under Assignor's assignment or grant.

This Agreement may be executed in any number of counterparts, each of which shall be deemed an original, but all of which together shall constitute one instrument.

IN TESTIMONY WHEREOF, the parties hereto have caused these presents to be executed by their officers duly appointed at the respective locations identified herein.

JOHN THOMAS BARON

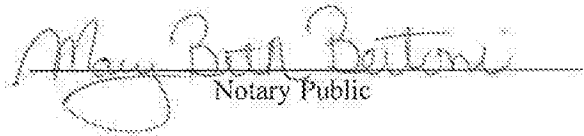
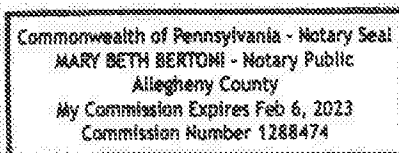


STATE OF Pennsylvania

COUNTY OF Allegheny

On this 22 day of July, 2019 before me, a Notary Public, the undersigned officer, personally appeared John Thomas Baron, who duly executed the foregoing Intellectual Property and Technology Assignment for the purposes therein contained.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

  
Notary Public

KOPPERS DELAWARE, INC.

By: 

Name: Steven R. Lacy

Title: Secretary

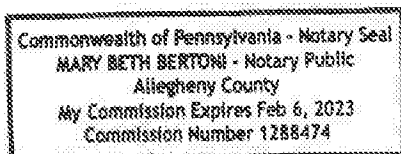
STATE OF Pennsylvania

COUNTY OF Allegheny

SS:

On this 23 day of July, 2019, before me, a Notary Public, the undersigned officer, personally appeared Steven R. Lacy, who acknowledged himself to be the Secretary of Koppers Delaware, Inc, a Delaware corporation, and declared that as such officer, he duly executed the foregoing Intellectual Property and Technology Assignment for the purposes therein contained, and is entitled to sign the Assignment document alone and on behalf of Koppers Delaware, Inc.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

  
Notary Public

**SCHEDULE A**

Title: Heat Treatment Process and System for Increased Pitch Yields

United States Patent Application Serial No. 16/520,135

Filed: July 23, 2019



## INTELLECTUAL PROPERTY AND TECHNOLOGY ASSIGNMENT

This is an Assignment, having an effective date of July 22, 2019, by and between:

James T. Dietz, an individual, having an address of 128 Majestic Drive, Mars, Pennsylvania 16046 (the "Assignor"); and

Koppers Delaware, Inc., a Delaware corporation, having its principal office and place of business at 436 Seventh Avenue, Pittsburgh, Pennsylvania 15219 (the "Assignee").

Assignor owns an undivided partial interest in and to certain technology and intellectual property, including, but not limited to, as described in the applications and patents identified on Schedule A hereto (the "Intellectual Property"). Assignee is desirous of acquiring all right, title and interest in and to the Intellectual Property.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and does hereby sell, assign, transfer and set over to Assignee all of Assignor's right, title and interest in and to the Intellectual Property and all intellectual property rights associated therewith, including, but not limited to, all works of authorship, text, graphics, drawings, plans, computer code and mask works, whether copyrightable or not; all trade secrets, confidential information, technical and non-technical know-how associated or utilized in conjunction with the Intellectual Property together with any patent applications including the same for the United States and all foreign countries and any Letters Patent that may issue therefor in the United States and any foreign countries, together with all divisions, reissues, continuations, applications or patents claiming the benefit thereof, renewals, and extensions thereof including all priority rights under the International Convention associated therewith; the same to be held and enjoyed by Assignee for its own use and enjoyment, and for the use and enjoyment of its successors, assigns and other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made, for the use and benefit of its successors, assigns or other legal representatives.

Assignor agrees that it, and its legal representatives or other persons duly authorized, will communicate to Assignee or the representatives thereof any facts known to it respecting said Intellectual Property and will, upon request, testify in any legal proceedings, sign all lawful papers, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by Assignee or by counsel for Assignee, to assist or enable Assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon Assignor's successors and assigns and shall inure to the benefit of the successors and/or assigns of Assignee.

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IN TESTIMONY WHEREOF, the parties hereto have caused these presents to be executed by their officers duly appointed at the respective locations identified herein.

JAMES T. DIETZ



STATE OF Pennsylvania

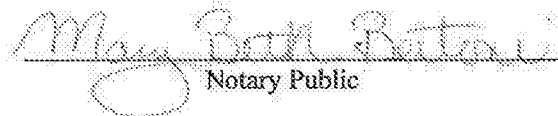
COUNTY OF Allegheny

SS:

On this 22 day of July, 2019 before me, a Notary Public, the undersigned officer, personally appeared James T. Dietz, who duly executed the foregoing Intellectual Property and Technology Assignment for the purposes therein contained.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

Commonwealth of Pennsylvania - Notary Seal  
MARY BETH BERTONI - Notary Public  
Allegheny County  
My Commission Expires Feb 6, 2023  
Commission Number 1288474

  
Notary Public

KOPPERS DELAWARE, INC.

By: 

Name: Steven R. Lacy

Title: Secretary

STATE OF Pennsylvania

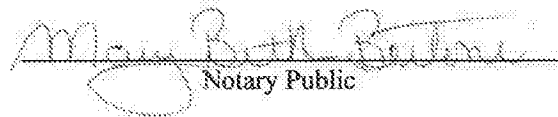
COUNTY OF Allegheny

SS:

On this 23 day of July, 2019, before me, a Notary Public, the undersigned officer, personally appeared Steven R. Lacy, who acknowledged himself to be the Secretary of Koppers Delaware, Inc, a Delaware corporation, and declared that as such officer, he duly executed the foregoing Intellectual Property and Technology Assignment for the purposes therein contained, and is entitled to sign the Assignment document alone and on behalf of Koppers Delaware, Inc.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

Commonwealth of Pennsylvania - Notary Seal  
MARY BETH BERTONI - Notary Public  
Allegheny County  
My Commission Expires Feb 6, 2023  
Commission Number 1288474

  
Notary Public

**SCHEDULE A**

Title: Heat Treatment Process and System for Increased Pitch Yields

United States Patent Application Serial No. 16/520,135

Filed: July 23, 2019