

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5177884

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ERIC A. JANIKOWSKI	04/20/2017
MARK P. ADAMS	04/21/2017
HUANLING LIU	05/11/2017
HIMANI DESHPANDE	04/21/2017
SCOTT W. SCHWARTZ	04/21/2017
BARRY MARK VERDEGAN	04/20/2017
AIDEN KIM	04/21/2017
ANNA BALAZY	04/21/2017
NATHAN SHAFER	04/21/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CUMMINS FILTRATION IP, INC.
<b>Street Address:</b>	500 JACKSON STREET
<b>City:</b>	COLUMBUS
<b>State/Country:</b>	INDIANA
<b>Postal Code:</b>	47201
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16092084
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(312)832-4700
<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>	312-832-4500
<b>Email:</b>	rrozanski@foley.com,jolsen@foley.com
<b>Correspondent Name:</b>	ROGER ROZANSKI/ FOLEY & LARDNER LLP
<b>Address Line 1:</b>	321 NORTH CLARK STREET, SUITE 2800
<b>Address Line 4:</b>	CHICAGO, ILLINOIS 60654
<b>ATTORNEY DOCKET NUMBER:</b>	106389-5135
<b>NAME OF SUBMITTER:</b>	ROGER ROZANSKI

<b>SIGNATURE:</b>	/Roger Rozanski/
<b>DATE SIGNED:</b>	10/08/2018
<b>Total Attachments: 11</b> source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif source=Assignment#page7.tif source=Assignment#page8.tif source=Assignment#page9.tif source=Assignment#page10.tif source=Assignment#page11.tif	

**ASSIGNMENT - WORLDWIDE**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor (hereinafter referred to singly and collectively as "ASSIGNOR") has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto

Cummins Filtration IP, Inc.  
500 Jackson Street  
Columbus, Indiana 47201

(hereinafter referred to as "ASSIGNEE") its successors and assigns, the full and exclusive right, title and interest for the United States, its territories and possessions, and all foreign countries in and to this invention relating to

**NANOFIBER FILTER MEDIA FOR HIGH PERFORMANCE APPLICATIONS**

as set forth in the following application:

PCT Application No. PCT/US2017/028157      Filed: April 18, 2017

as well as in and to (a) all improvements and modifications of the above-identified invention or inventions, (b) the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto for above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States and countries foreign thereto, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the Patent Cooperation Treaty, the Paris Convention and any other international agreement; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES ASSIGNEE to file patent applications in any or all countries on the above-identified invention or inventions in the name of the undersigned or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable under the International Convention or otherwise.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest for the sole use and benefit of ASSIGNEE, its successors and assigns

ASSIGNOR HEREBY AGREES to communicate to ASSIGNEE, its successors and assigns, or their representative or agents, all facts and information known or available to

August 11, 2017

Page 1 of 1

ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, and declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of **Foley & Lardner LLP** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of **Foley & Lardner LLP** do not personally represent ASSIGNOR OR ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

4/27/03

Page 1 of 1

Executed this 20 day of April, 2017

Eric A. Janikowski  
ERIC A. JANIKOWSKI

State of Wisconsin  
County of DANE

On April 20, 2017, before me, JAYNE D. FISCHER (Notary Public)  
*Date* *Here Insert Name and Title of the Officer (Notary Public)*

personally appeared ERIC A. JANIKOWSKI  
*Name(s) of Signer(s)*

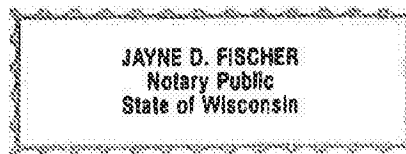
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/their executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Jayne D. Fischer  
*Signature of Notary Public*  
*My Commission Expires Feb. 7, 2020*

Place Notary Seal Above



Executed this 21 day of April, 2017

Mark P. Adams  
MARK P. ADAMS

State of WISCONSIN  
County of DANE

On April 21, 2017, before me, Jayne D. Fischer (Notary Public)  
*Date Here insert Name and Title of the Officer (Notary Public)*

personally appeared MARK P. ADAMS  
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/their executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

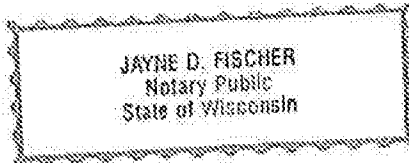
I certify under PENALTY OF PERJURY that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Jayne D. Fischer  
Signature of Notary Public

My Commission Expires Feb. 7, 2020.

Place Notary Seal Above



Executed this 11 day of May, 2017

Huanling Liu  
HUANLING LIU

State of Tennessee  
County of DeKalb

On 05/11/2017, before me, Eric P. Benedict  
*Date Here Insert Name and Title of the Officer (Notary Public)*

personally appeared HUANLING LIU  
*Name(s) of Signer(s)*

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/their executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

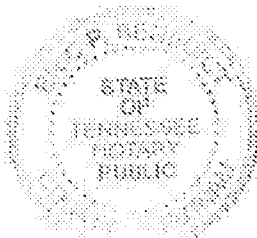
I certify under PENALTY OF PERJURY that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Signature]  
*Signature of Notary Public*

Place Notary Seal Above

Exp. 4/24/18



Executed this 21 day of April, 2017

Himani Deshpande  
HIMANI DESHPANDE

State of Wisconsin  
County of Douglas

On April 21, 2017, before me, JAYNE D. FISCHER (Notary Public)  
*Date Here insert Name and Title of this Officer (Notary Public)*

personally appeared HIMANI DESHPANDE  
Name(s) of Signer(s)

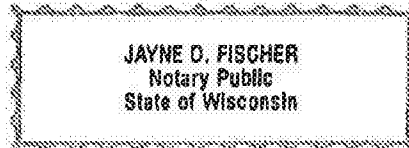
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Jayne D. Fischer  
Signature of Notary Public  
My Commission Expires Feb. 7, 2020

Place Notary Seal Above





Executed this 21<sup>st</sup> day of APRIL, 2017

  
SCOTT W. SCHWARTZ

State of WISCONSIN  
County of DANE

On April 21, 2017, before me, JAYNE D. FISCHER (Notary Public)  
*Date Here insert Name and Title of the Officer (Notary Public)*

personally appeared SCOTT W. SCHWARTZ  
Name(s) of Signor(s)

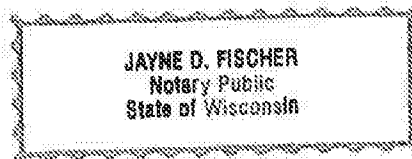
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/their executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: Jayne D. Fischer  
Signature of Notary Public  
*My Commission Expires Feb. 7, 2020.*

Place Notary Seal Above



Executed this 20 day of April, 2017.

[Signature]  
BARRY MARK VERDEGAN

State of Wisconsin  
County of Dane

On April 20, 2017, before me, JAYNE D. FISCHER (Notary Public)  
*Date Here Insert Name and Title of the Officer (Notary Public)*

personally appeared BARRY MARK VERDEGAN  
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/their executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

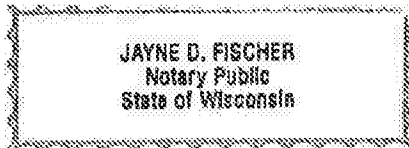
I certify under PENALTY OF PERJURY that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Signature]  
Signature of Notary Public

My Commission Expires Feb. 7, 2020.

Place Notary Seal Above



Executed this 21<sup>st</sup> day of April, 2017.

Aiden Kim  
AIDEN KIM

NAME AND SIGNATURE OF WITNESSES

NAME: Jo Jo SIGNATURE: [Signature] DATE: Apr 20, 2017

NAME: Taymas Park SIGNATURE: [Signature] DATE: Apr 21 2017

Executed this 21 day of April, 2017.

Anna Balazy  
ANNA BALAZY

State of Indiana

County of Bartholomew

On April 21, 2017, before me, Carmelita Kay Kohl-Smith /Notary Public  
*Date Here insert Name and Title of the Officer (Notary Public)*

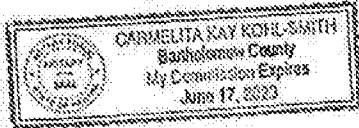
personally appeared ANNA BALAZY  
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/their executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Carmelita Kay Kohl-Smith  
Signature of Notary Public



Place Notary Seal Above

Executed this 21 day of April, 2017.

  
NATHAN SHAFER

State of WISCONSIN  
County of DANE

On April 21, 2017, before me, JAYNE D. FISCHER (Notary Public)  
*Date Here insert Name and Title of the Officer (Notary Public)*

personally appeared NATHAN SHAFER  
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/their executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Jayne D. Fischer  
Signature of Notary Public

My Commission Expires Feb. 7, 2020.

Place Notary Seal Above

