

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3641770

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
RONALD D. SHAVER	10/27/2015
YAW-HWA LIU	10/27/2015
MARK O. SCATES	11/02/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CELANESE INTERNATIONAL CORPORATION
<b>Street Address:</b>	222 W. LAS COLINAS BLVD.
<b>Internal Address:</b>	SUITE 900N
<b>City:</b>	IRVING
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	75039
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14873808
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)508-5858
<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>	2024819934
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<b>Correspondent Name:</b>	KEITH D. FREDLAKE
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<b>ATTORNEY DOCKET NUMBER:</b>	97844-959943(48351US-IC)
<b>NAME OF SUBMITTER:</b>	MICHELE D. FRANCIS FOR KEITH D. FREDLAKE
<b>SIGNATURE:</b>	/MICHELE D. FRANCIS/
<b>DATE SIGNED:</b>	12/03/2015
<b>Total Attachments: 3</b>	
source=2014P0052A-US-CIP-48351US-IC (0959943) Assignment#page1.tif	
source=2014P0052A-US-CIP-48351US-IC (0959943) Assignment#page2.tif	



**ASSIGNMENT**

WHEREAS, RONALD D. SHAVER; YAW-HWA LIU AND MARK O. SCATES (hereinafter referred to as ASSIGNOR(S)), have invented certain new and useful inventions relating to **PROCESSES FOR PRODUCING ACETIC ACID** (hereinafter referred to as THE INVENTION) for which a *non-provisional application* for United States Letters Patent was filed on October 2, 2015, as Serial No. 14/873,808.

WHEREAS, CELANESE INTERNATIONAL CORPORATION, a corporation duly organized under and pursuant to the laws of Delaware and whose post office address is 222 W. LAS COLINAS BLVD., SUITE 900N, IRVING, TEXAS 75039, (hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire right, title and interest in and to THE INVENTION in the United States and throughout the world.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNOR(S), by these presents do sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to THE INVENTION and THE APPLICATION throughout the United States of America, including any and all United States Letters Patent granted on any non-provisional, division, continuation, and reissue of THE APPLICATION; and the entire right, title and interest in and to THE INVENTION throughout the world, including the right to apply for patents and inventor certificates in respect thereof and to claim priority pursuant to rights accorded ASSIGNOR(S) under the terms of the Paris International Convention and all other available international conventions and treaties; and the entire right, title and interest in and to any and all applications filed throughout the world in respect of THE INVENTION and to any and all patents, patents of addition, utility models, patents of importation, revalidation patents and inventor certificates which may be granted throughout the world in respect of THE INVENTION.

ALSO, ASSIGNOR(S) hereby agree to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of THE INVENTION or any other patent application(s) or inventor certificate(s) in the United States and in foreign countries for THE INVENTION, including additional documents that may be required to affirm the rights of ASSIGNEE in and to THE INVENTION, all without further consideration. ASSIGNOR(S) also agree, without further consideration and at ASSIGNEE'S expense, to identify and communicate to ASSIGNEE at ASSIGNEE'S request documents and information concerning THE INVENTION that are within ASSIGNOR(S)' possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR(S) in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument.

ASSIGNOR(S) also agree, without further consideration and at ASSIGNEE'S expense, to transfer the right to sue for past infringement to ASSIGNEE and at ASSIGNEE'S request documents and information concerning the enforcement of the right to sue within ASSIGNOR(S) possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR(S) in respect of the right to sue of any patent encompassed within the terms of this instrument.

ASSIGNOR(S) obligation under this instrument shall extend to ASSIGNOR(S)' heirs, executors, administrators and other legal representatives.

ASSIGNOR(S) hereby grant the firm of Kilpatrick Townsend & Stockton LLP of Washington, DC, the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent referred to above to ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE'S sole use and behalf, and for the use and behalf of ASSIGNEE'S legal representatives and successors, to the full end of the term for which such Letters Patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR(S) had this assignment and sale not been made.

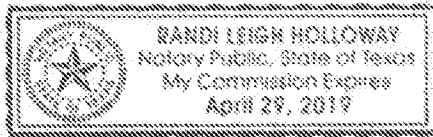
Date 10/21/15 Signature of Assignor Ronald D. Shaver  
RONALD D. SHAVER

STATE OF VIRGINIA )  
COUNTY OF SPRINGS )SS

Before me personally appeared the person whose name is subscribed to the foregoing instrument, and executed the foregoing instrument in my presence for the purpose contained therein, by signing his name hereto.

Subscribed and Sworn to before me, in my presence.

This 27th day of October, 2015  
Notary Public Randi Leigh Holloway  
My commission expires 29-Apr-2019



Date 10-27-2015  
TEXAS  
STATE OF ~~VIRGINIA~~ )  
COUNTY OF HARRIS ) SS

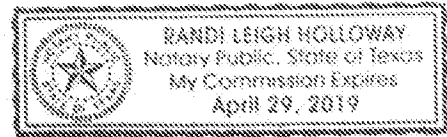
Signature of Assignor

[Signature]  
YAW-HWA LIU

Before me personally appeared the person whose name is subscribed to the foregoing instrument, and executed the foregoing instrument in my presence for the purpose contained therein, by signing his name hereto.

Subscribed and Sworn to before me, in my presence,

This 27th day of October, 2015  
Notary Public [Signature]  
My commission expires 24 APR 2019



Date \_\_\_\_\_

Signature of Assignor

\_\_\_\_\_

STATE OF TEXAS )  
COUNTY OF \_\_\_\_\_ ) SS

MARK O. SCATES

Before me personally appeared the person whose name is subscribed to the foregoing instrument, and executed the foregoing instrument in my presence for the purpose contained therein, by signing his name hereto.

Subscribed and Sworn to before me, in my presence,

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_

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

My commission expires \_\_\_\_\_

