

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	GERALD TODD EBERHART	04/20/2017
RECEIVING PARTY DATA		
Name:	OLIN CORPORATION	
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Internal Address:	SUITE 1530	
City:	ST. LOUIS	
State/Country:	MISSOURI	
Postal Code:	63105	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	17319645
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NAME OF SUBMITTER:	BRYAN K. WHEELLOCK	
SIGNATURE:	/Bryan K. Wheelock/	
DATE SIGNED:	08/11/2021	
Total Attachments: 4		
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source=Executed Assignment (Inventor to Olin Corporation) (from parent file)#page2.tif		
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ASSIGNMENT

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

COMPOUND SHELL CASING, AND AMMUNITION HAVING COMPOUND SHELL CASING

for which Assignor is about to make or has made United States or International application for patent

- (a) ☐ executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration);
- (b) ☐ executed on _____, _____, _____; or
- (c) ☒ filed on April 19, 2017, and assigned Serial No. 62/487,476 or PCT International Application No. _____; and

WHEREAS, Olin Corporation, having a principal place of business at 190 Carondelet Plaza, Suite 1530, St. Louis, Missouri 63105, hereinafter referred to as Assignee, is desirous of acquiring all right, title, and interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor hereby confirms any prior assignment to Assignee, and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or other similar right to Assignee.

The undersigned hereby grant(s) the law firm of Harness, Dickey & Pierce, P.L.C. 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 U.S. Patent and Trademark Office for recordation of this document.

INVENTION

1. A method of determining the relative humidity of a gas mixture, comprising the steps of: (a) measuring the dew point of the gas mixture; (b) measuring the total pressure of the gas mixture; and (c) calculating the relative humidity from the measured dew point and total pressure.

2. The method of claim 1, wherein the dew point is measured by passing the gas mixture through a chilled mirror and detecting the temperature at which condensation first appears.

3. The method of claim 1, wherein the total pressure is measured by a pressure transducer.

4. The method of claim 1, wherein the gas mixture is a mixture of air and water vapor.

5. A device for determining the relative humidity of a gas mixture, comprising: (a) a gas inlet for introducing the gas mixture; (b) a chilled mirror; (c) a pressure transducer; and (d) a control unit for calculating the relative humidity from the dew point and total pressure measurements.

6. The device of claim 5, wherein the chilled mirror is cooled by a refrigerant.

7. The device of claim 5, wherein the pressure transducer is a piezoelectric transducer.

8. The device of claim 5, wherein the control unit is a microprocessor.

9. A method of determining the relative humidity of a gas mixture, comprising the steps of: (a) measuring the dew point of the gas mixture; (b) measuring the total pressure of the gas mixture; and (c) calculating the relative humidity from the measured dew point and total pressure.

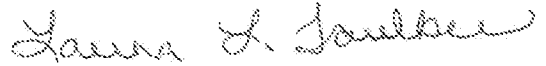
10. The method of claim 9, wherein the dew point is measured by passing the gas mixture through a chilled mirror and detecting the temperature at which condensation first appears.

ASSIGNMENT


Gerald Todd Eberhart

State of Illinois)
County of Madison) ss.

On this 20th day of April, 2017, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

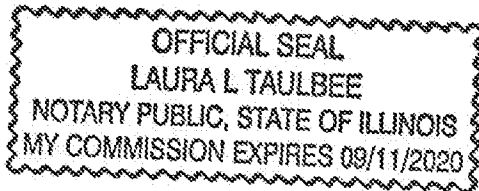
Notary Public, 

(seal)

Acting in the County Of Madison

State Of Illinois

My Commission Expires 9/11/2020



OFFICIAL SEAL
LAURA J. TAUBER
NOTARY PUBLIC, STATE OF ILLINOIS
MY COMMISSION EXPIRES 03/15/2020

IN WITNESS WHEREOF, I have hereunto set my hand and the seal of my office, this 11th day of August, 2021.

Notary Public for the State of Illinois

My commission expires 03/15/2020