

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5008452

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BENJAMIN D. HASDAY	02/14/2018
GREGORY A. RUSSELL	06/12/2018
SHRIDHAR GOPALAN	06/09/2018
CHRISTOPHER F. SOUTH	06/11/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	DLHBOWLES, INC.
<b>Street Address:</b>	2422 LEO AVENUE SW
<b>City:</b>	CANTON
<b>State/Country:</b>	OHIO
<b>Postal Code:</b>	44706
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16001432
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(216)348-5474
<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>	216-348-5400
<b>Email:</b>	ipmailbox@mcdonaldhopkins.com
<b>Correspondent Name:</b>	MCDONALD HOPKINS LLC
<b>Address Line 1:</b>	600 SUPERIOR AVENUE, EAST
<b>Address Line 2:</b>	SUITE 2100
<b>Address Line 4:</b>	CLEVELAND, OHIO 44114-2653
<b>ATTORNEY DOCKET NUMBER:</b>	42989-00313
<b>NAME OF SUBMITTER:</b>	MARK J. MASTERSON
<b>SIGNATURE:</b>	/Mark J. Masterson/
<b>DATE SIGNED:</b>	06/15/2018
This document serves as an Oath/Declaration (37 CFR 1.63).	
<b>Total Attachments: 5</b>	

source=7483148#page1.tif  
source=7483148#page2.tif  
source=7483148#page3.tif  
source=7483148#page4.tif  
source=7483148#page5.tif

Title: CLOG RESISTANT IN-LINE VORTEX ELEMENT IRRIGATION EMITTER  
MH Ref. No. 42989-00020

**DECLARATION AND ASSIGNMENT  
FOR U.S. UTILITY OR DESIGN PATENT APPLICATION**

Attorney Docket No.:42989-00020

**As a below-named inventor, I hereby declare that:**

This declaration is directed to the application entitled:

---

**CLOG RESISTANT IN-LINE VORTEX ELEMENT IRRIGATION EMITTER**  
**(TITLE)**

---

(check only one item below)

☐ attached hereto,

OR

☒ U.S. Provisional Application No. 62/515,973 filed June 6, 2017, and any subsequent applications filed in connection with the above invention (the "Patent").

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-identified application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WHEREAS, dlhBOWLES, Inc., having a place of business at 2422 Leo Avenue SW, Canton Ohio 44706, hereinafter referred to as "Assignee," is desirous of acquiring the entire right, title and interest in and to the Patent;

NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, all right, title, and interest, in the United States and throughout the world, in, to and under the Patent, improvements and inventions and all patents, patent applications, patent rights, and inventors' certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, all applications therefor, and all rights of priority resulting from the filing of said applications, have been and are hereby sold, assigned, transferred, and delivered unto Assignee,

For applications filed under AIA  
(on or after September 16, 2012)

Title: CLOG RESISTANT IN-LINE VORTEX ELEMENT IRRIGATION EMITTER  
MH Ref. No. 42989-00020

its successors and assigns by the undersigned; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at Assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in Assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to Assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to Assignee as owner of the entire right, title and interest in, to, and under the same.

THIS DECLARATION AND ASSIGNMENT, has been executed below by the undersigned:

Legal Name of Inventor: **Benjamin D. Hasday**

Signature of Inventor: \_\_\_\_\_

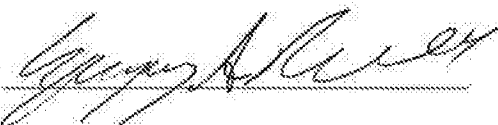
Date: 2/14/18

**Notice to Inventor(s):** You should not execute this Declaration unless you have reviewed and understand the contents of the above-identified application, including the claims.

**Notice to Inventor(s):** You have a duty disclose to the USPTO all information known to you to be material to patentability as defined in 37 CFR 1.56 during prosecution of the Patent.

Title: CLOG RESISTANT IN-LINE VORTEX ELEMENT IRRIGATION EMITTER  
MH Ref. No. 42989-00020

Legal Name of Inventor: **Gregory A. Russell**

Signature of Inventor: 

Date: 6/12/2018

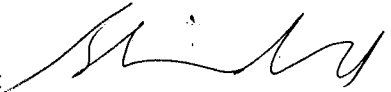
**Notice to Inventor(s):** You should not execute this Declaration unless you have reviewed and understand the contents of the above-identified application, including the claims.

**Notice to Inventor(s):** You have a duty disclose to the USPTO all information known to you to be material to patentability as defined in 37 CFR 1.56 during prosecution of the Patent.

For applications filed under AIA  
(on or after September 16, 2012)

Title: CLOG RESISTANT IN-LINE VORTEX ELEMENT IRRIGATION EMITTER  
MH Ref. No. 42989-00020

Legal Name of Inventor: **Shridhar Gopalan**

Signature of Inventor: 

Date: 6-9-2018

**Notice to Inventor(s):** You should not execute this Declaration unless you have reviewed and understand the contents of the above-identified application, including the claims.

**Notice to Inventor(s):** You have a duty disclose to the USPTO all information known to you to be material to patentability as defined in 37 CFR 1.56 during prosecution of the Patent.

Title: CLOG RESISTANT IN-LINE VORTEX ELEMENT IRRIGATION EMITTER  
MH Ref. No. 42989-00020

Legal Name of Inventor: **Christopher F. South**

Signature of Inventor: Christopher F. South

Date: June 11, 2018

**Notice to Inventor(s):** You should not execute this Declaration unless you have reviewed and understand the contents of the above-identified application, including the claims.

**Notice to Inventor(s):** You have a duty disclose to the USPTO all information known to you to be material to patentability as defined in 37 CFR 1.56 during prosecution of the Patent.