

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JASON E. GASKA	05/02/2017
SAMUEL F. HAWORTH	05/02/2017
RECEIVING PARTY DATA	
Name:	HARNISCHFEGER TECHNOLOGIES, INC.
Street Address:	2751 CENTERVILLE ROAD
Internal Address:	SUITE 342
City:	WILMINGTON
State/Country:	DELAWARE
Postal Code:	19808
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15430102
CORRESPONDENCE DATA	
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<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>	
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ATTORNEY DOCKET NUMBER:	043020-9253-US01
NAME OF SUBMITTER:	BENJAMIN E. EVANS
SIGNATURE:	/benjamin e. evans/
DATE SIGNED:	05/11/2017
Total Attachments: 2	
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source=20996712_043020-9253-US01_Executed_Assignment_-_as_recorded#page2.tif	

ASSIGNMENT

Pursuant to our obligation to Harnischfeger Technologies, Inc. (hereinafter referred to as "Assignee"), a Delaware corporation having its principal place of business at:

2751 Centerville Road, Suite 342
Wilmington, DE 19808

and for other valuable and sufficient consideration, receipt whereof is hereby acknowledged,
we:

Jason E. Gaska
W11236 Breyer Road
Columbus, WI 53925

Samuel F. Haworth
425 E. Quail Run
Oak Creek, WI 53154

confirm our obligation to and hereby sell, assign and convey, unto Assignee, its successors and assigns, our entire right, title and interest -

(1) in and to inventions described in a patent application titled "BIT CHANGE MECHANISM FOR A DRILL RIG " for which we filed United States patent application no. 15/430,102, (atty. File no. 043020-9253-US01) (hereinafter the "U.S. utility patent application") which application claims the benefit of United States provisional patent application no. 62/294,680, filed February 12, 2016 (hereinafter the "U.S. provisional patent application") (atty. File no. 043020-9253-US00);

(2) in and to the U.S. utility patent application, and the U.S. provisional patent application, in and to all other patent applications (including divisional, continuation, continuation-in-part, 35 U.S.C. §111(b) provisional, 35 U.S.C. §111(a), and reissue applications) based upon said inventions, and in and to the patent or patents to be granted thereon, to the full end of the term or terms for which said patent or patents may be granted;

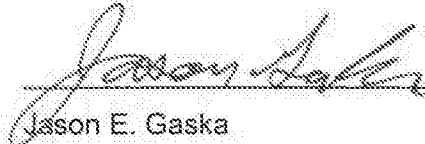
(3) in and to all patent applications on said invention now or hereafter filed in countries foreign to the United States of America, and in and to any and all patents granted on said applications to the full end of the terms for which said patents may be granted; and

(4) under the International Convention in respect to the U.S. utility patent application and the U.S. provisional patent application, and agree that any patent applications of any foreign countries which may be filed shall be filed in the name of our Assignee with a claim to priority based on the U.S. utility patent application and the U.S. provisional patent application.

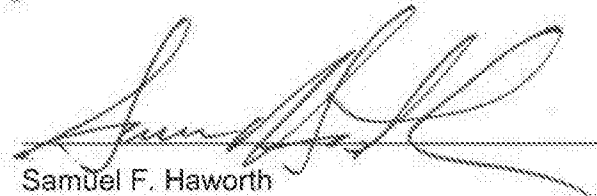
We hereby agree that we will, upon demand of Assignee, its successors or assigns, and without further consideration to us, execute any and all papers that may be necessary, or deemed by Assignee, its successors or assigns, to be necessary, to a complete fulfillment of the intent and purposes of this Assignment, it being understood that any expense incident to the execution of such papers shall be paid by Assignee, its successors and assigns, and not by us.

The Commissioner of Patents and Trademarks of the United States is hereby authorized and requested to issue said patent or patents to Assignee.

2-MAY-2017
Date


Jason E. Gaska

2-May-2017
Date


Samuel F. Haworth