

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT4933957

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JEREMY RUBENS	03/19/2018
DANIEL JOHN BLYTHE	03/23/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ROBERT BOSCH TOOL CORPORATION
<b>Street Address:</b>	2800 SOUTH 25TH AVENUE
<b>City:</b>	BROADVIEW
<b>State/Country:</b>	ILLINOIS
<b>Postal Code:</b>	60155
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15633913
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(212)318-3400
<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>	248-553-9000
<b>Email:</b>	farieza.juman@nortonrosefulbright.com
<b>Correspondent Name:</b>	C/IPR1-NA ROBERT BOSCH LLC
<b>Address Line 1:</b>	38000 HILLS TECH DRIVE
<b>Address Line 4:</b>	FARMINGTON HILLS, MICHIGAN 48331
<b>ATTORNEY DOCKET NUMBER:</b>	BLLC.P0142US/R360554PTRT
<b>NAME OF SUBMITTER:</b>	GERARD A. MESSINA
<b>SIGNATURE:</b>	/Gerard A. Messina/
<b>DATE SIGNED:</b>	04/26/2018
<b>Total Attachments: 5</b>	
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ASSIGNMENT

Pursuant to our obligation to Robert Bosch Tool Corporation (hereinafter referred to as "Assignee"), having a place of business at:

2800 South 25th Avenue  
Broadview, IL 60155

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

we:

Jeremy Rubens  
909 N. Carmel Drive  
Palatine, IL 60074

Daniel John Blythe  
638 E Pennsylvania Drive, #6  
Palatine, IL 60074

Christopher R. Dvorak  
10040 Delmar Lane  
Overland Park, KS 66207

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

(1) in and to an invention entitled "AUTOMATIC MECHANICAL SPOOL CHANGER FOR 3-D PRINTERS" for which we have executed a United States patent application, said United States application being assigned U.S. Serial No. 15/633,913 filed **June 27, 2017**;

(2) in and to said United States patent application, in and to all other patent applications (including divisional, continuation, continuation-in-part, §111(b) provisional, §111(a) reissue applications, and international patent applications designating the United States) based upon said invention, and in and to the patent or patents to be granted thereon, including

reissues thereof, if any, to the full end of the term or terms for which said patent or patents may be granted; and

(3) in and to all patent applications on said invention now or hereafter filed in countries foreign to the United States of America, including patent applications filed under the Patent Cooperation Treaty, the European Patent Convention or any other international treaty, and including the right to claim priority of said United States application, 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.

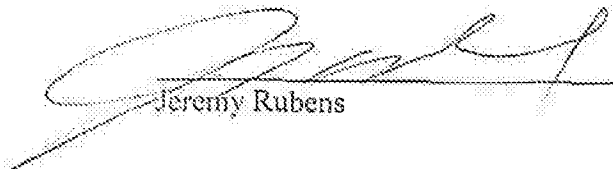
We hereby agree that we will, upon demand of Assignee, its successors or assigns, and without further consideration to us, execute any and all papers that may be necessary, or deemed by Assignee, its successors or assigns, to be necessary, to a complete fulfillment of the intent and purposes of this 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 foregoing notwithstanding, and in recognition of the fact that Assignee is part of the Bosch group of companies, we hereby assign to Robert Bosch GmbH, a German corporation having a mailing address at Postfach 30 02 20, D-70442 Stuttgart, GERMANY, the limited right to be named as assignee or applicant at the time of publication and at the time of issue on any applications or patents granted as referred to in foregoing paragraphs (2) and (3). If the right applicable to any such patent application allows an assignee to be the applicant of the patent application, Robert Bosch GmbH shall have the right to be identified as applicant of the patent application and the right to claim priority of said United States application. This limited right granted to Robert Bosch GmbH with respect to any patent application or granted patent shall

expire upon the first-occurring of (i) assignment to a third party of any of the above-mentioned rights of Assignee, or (ii) with respect to any particular patent, issue of such patent, and shall be subsequently part of the assignable rights of Assignee. All other rights to said invention, said applications and said patents, U.S. or foreign, including the right under any of said patents to manufacture, use, sell or offer for sale the invention covered by said patents, or to license or permit use of said invention, remain with Assignee and shall be assignable by Assignee without the consent of Robert Bosch GmbH.

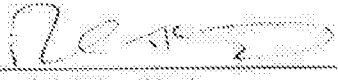
Date:

3/19/18

  
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Jeremy Rubens

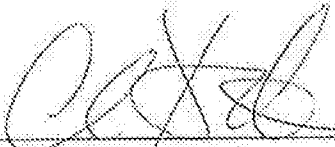
Bosch Reference: R360554PT-RT  
NRF Reference: B11C.P0142US

Date: 3/23/18

  
Daniel John Blythe

Bosch Reference: R360554PT-RT  
NRF Reference: BLLC.P0142US

Date: 4/5/2018

  
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Christopher R. Dvorak