No. 720,786. PATENTED FEB. 17, 1903.

H. S. COVEY.

HOLDER-ON FOR PNEUMATIC TOOLS.

APPLICATION FILED DEC. 13, 1902.

NO MODEL.

Fig. I

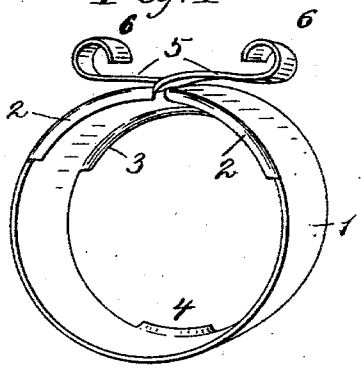


Fig. II

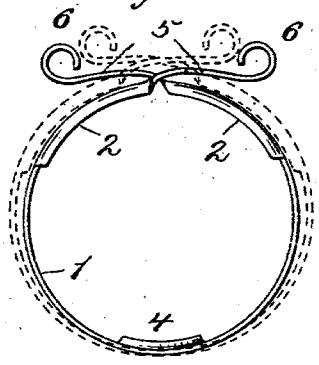
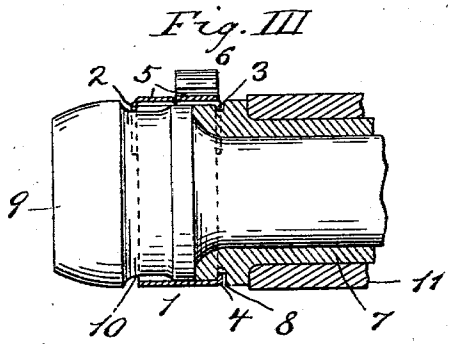


Fig. III



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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

HERBERT SMITH COVEY, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE CLEVELAND PNEUMATIC TOOL COMPANY, OF CLEVELAND, OHIO, A CORPORATION OF OHIO.

HOLDER-ON FOR PNEUMATIC TOOLS.

SPECIFICATION forming part of Letters Patent No. 720,786, dated February 17, 1903.

Application filed December 13, 1902. Serial No. 135,075. (No model.)

To all whom it may concern:

Be it known that I, HERBERT SMITH COVEY, a citizen of the United States, and a resident of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Holders-On for Pneumatic Impact-Tools, of which the following is a specification, the principle of the invention being herein explained and the best mode in which I have contemplated applying that principle, so as to distinguish it from other inventions.

The annexed drawings and the following description set forth in detail one mechanical form embodying the invention, such detail construction being but one of various mechanical forms in which the principle of the invention may be used.

In said annexed drawings, Figure I represents a perspective view of my improved holder-on for pneumatic impact-tools; Fig. II, an edge view of the holder-on, showing the same in dotted lines as expanded; and Fig. III an axial section of the outer end of a pneumatic riveter with the rivet-set inserted and the holder-on in section.

The holder-on heretofore in general use on percussion or impact tools, such as pneumatic hammers or riveters, consists of a split ring having inturned lips engaging circumferential grooves in the tool-nose and working tool. To open such split ring for the insertion or removal of the working tool, it has been necesary to insert some pointed tool between the ring and working tool and to thus pry the holder-on open, and this method is inconvenient and impractical, as such tool is not always conveniently at hand and is also liable to break the holder-on or mar the tool-nose or working tool.

My present holder-on consists of a flat ring 1, longitudinally split and formed with inturned flanges 2 and 3, one upon each edge and extending equally at both sides of the split, such flanges extending about one-third of the periphery of the ring. One edge of the ring has a small flange 4, diametrically opposite the flange 3. Finger-pieces 5, each of one-half the width of the ring, extend from the edges of the split and cross each other, and the ends of said finger-pieces are formed with knobs 6, in the present instance formed by curving the ends of the finger-pieces. In Fig. III the tool-nose 7 of the pneumatic riveter is formed with the usual circumferential groove 8, and the rivet-set 9 with the circumferential groove 10 usually found in such rivet-sets. A portion of the barrel or working cylinder of the riveter is indicated by the numeral 11.

The holder-on is first sprung upon the end of the tool-nose by pressing the finger-pieces of the holder-on together, thereby opening the ring, so as to enable it to slip over the end of the tool-nose to engage the groove by the two lips or flanges 3 and 4. The rivet-set may then be inserted with its shank into the socket of the tool-nose by again opening the holder-on until the shoulder of the rivet-set slips under the lip or flange 2, which then engages the groove of the rivet-set, so that the latter will not drop out of the riveter when the latter is held with the tool end downward.

This holder-on is convenient of application and is easily manipulated in inserting and removing the rivet-set. It is manipulated without the use of any tool to spread it, all that is necessary to spread it being to press the two crossed finger-pieces together by the thumb and forefinger. The entire device may be and preferably is stamped out from one piece of sheet-steel, which is then bent to form the ring and the finger-pieces.

Other modes of applying the principle of my invention may be employed for the mode herein explained. Change may therefore be made as regards the mechanism thus disclosed provided the principles of construction set forth, respectively, in the following claims are employed.

I therefore particularly point out and distinctly claim as my invention—

1. A holder-on for percussion-tools, consisting of a split ring formed with inturned lips or flanges upon its edges and having two finger-pieces crossing each other from the split portions of the ring, whereby the ring

may be spread and opened by pressing together upon the finger-pieces.

2. A holder-on for percussion-tools, consisting of a split flat ring formed with inturned flanges upon both edges and at both sides of the split and with an inturned flange on one edge diametrically opposite the split, and formed with two finger-pieces crossing each other from the edges of the split and formed with knobs on the ends, whereby the ring may be spread and opened by pressing together upon the knobs of the finger-pieces.

3. The combination with a pneumatic percussion-tool having a circumferential groove on its tool-nose, and a working tool formed with a circumferential groove and having its shank fitting in the socket of the tool-nose, of a holder-on consisting of a split ring formed with inturned flanges upon its edges engaging the grooves of the tool-nose and working tool and having two finger-pieces crossing each other from the split portions of the ring, whereby the ring may be opened to engage or disengage the grooves of the tool-nose and tool by pressing together upon the finger-pieces.

4. The combination with a pneumatic percussion-tool having a circumferential groove on its tool-nose, and a working tool formed with a circumferential groove and having its shank fitting in the socket of the tool-nose, of a holder-on consisting of a flat split ring formed with inturned flanges upon both edges and at both sides of the split and engaging the grooves of the tool-nose and working tool and with an inturned flange on one edge opposite the split and engaging the groove in the tool-nose, and formed with two finger-pieces crossing each other from the edges of the split and formed with knobs on the ends, whereby the ring may be opened to engage or disengage the grooves of the tool-nose and tool by pressing together upon the knobs of the finger-pieces.

In testimony that I claim the foregoing to be my invention I have hereunto set my hand this 25th day of November, A. D. 1902.

HERBERT SMITH COVEY.

Witnesses:
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