E. KEPNER.

COTTER PIN EXTRACTING TOOL.

APPLICATION FILED OCT. 4, 1917.

1,258,016. Patented Mar. 5, 1918.

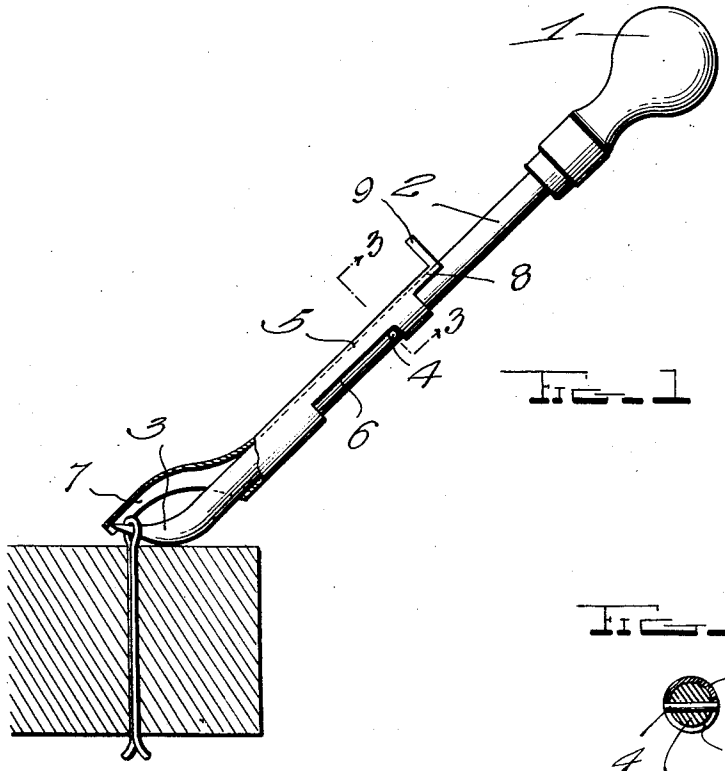


Fig. 1

Fig. 3

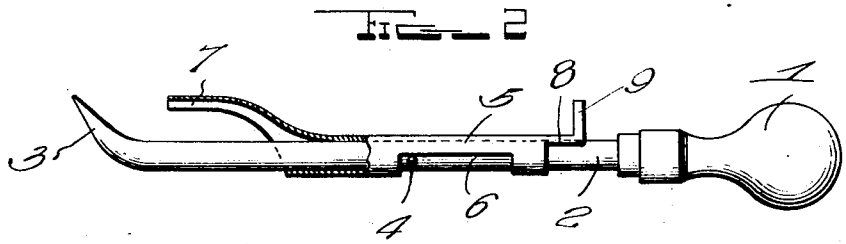


Fig. 2

Witness

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UNITED STATES PATENT OFFICE.

EVERT KEPNER, OF KOKOMO, INDIANA.

COTTER-PIN-EXTRACTING TOOL.

1,258,016. Specification of Letters Patent. Patented Mar. 5, 1918.

Application filed October 4, 1917. Serial No. 194,738.

To all whom it may concern:

Be it known that I, EVERT KEPNER, a citizen of the United States, residing at Kokomo, in the county of Howard and State of Indiana, have invented certain new and useful Improvements in Cotter-Pin-Extracting Tools; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates generally to tools, but more particularly to certain new and useful improvements in cotter pin extracting tools.

The primary object of the invention is to provide a tool which is provided with a device which will prevent the hook member which engages the cotter pin from becoming disengaged from the same while being used.

Another object of the invention is to provide a device of this class which will be extremely simple, strong, durable and inexpensive in construction, one which will be efficient and reliable in operation, and well adapted to the purpose for which it is designed.

With these and other objects in view, the invention consists of certain novel features of construction, and the combination and arrangement of parts as will be hereinafter fully described and claimed.

In the accompanying drawings:

Figure 1 is a side elevation of a device constructed in accordance with this invention, illustrating the manner in which it is used to extract a cotter pin;

Fig. 2 is a similar view, partly in section of the device; and,

Fig. 3 is a transverse sectional view taken on the plane indicated by the line 3—3 of Fig. 1.

Referring more particularly to the drawings, the numeral 1 designates a handle which is preferably of wood and to which a cylindrical metal stem 2 is connected at one of its ends in any suitable manner. The free end of the stem 2 is tapered and curved to form what may be termed a hook 3. Extending through the stem 2 and having its ends projecting outwardly from opposite sides of the stem 2 is a pin 4, the purpose of which will be hereinafter described. Slidably mounted upon the stem 2 is a tube 5, the latter being provided with a longitudinally extending slot 6 which receives the ends of the pin 4 to prevent rotary movement of the tube with respect to the stem and also to limit the sliding or longitudinal movement of the tube upon the stem. The end of the tube 5 which is remote from the handle 1 is provided with a lip 7. This lip 7 is curved longitudinally and extends toward the hook 3 so that when the tube 5 is slid away from the handle 1 the lip will ride upon the adjacent side of the hook and over the point of the same. The other end of the tube 5 is provided with an extension 8 having its free end upturned to form a lug 9 which may be engaged when moving the tube upon the stem.

In using the device the tube 5 is first disposed adjacent the handle 1, and the hook 3 is inserted in the eye of the cotter pin to be removed. The tube 5 is then slid away from the handle 1 until the lip 7 is disposed over and in contact with the point of the hook. This obviously prevents the cotter pin from becoming disengaged from the hook and by using the outer portion or bend of the hook as a fulcrum in the same manner as a nail puller is used, the cotter pin may be easily removed.

From the foregoing description, taken in connection with the accompanying drawings, the construction and use of the invention will be readily understood without a more extended explanation.

As various changes in form, proportion and in the minor details of construction may be resorted to without departing from the spirit of this invention, it is to be understood that I do not wish to be limited to the construction herein shown and described other than as claimed.

I claim:

A device of the class described comprising a handle, a stem secured at one end to said handle and having its other end tapered and curved longitudinally to form a hook adapted to be inserted into the eye of a fastening element, a tube slidable upon said stem and having a longitudinally extending slot therein, a pin secured to and projecting from one side of said stem and extending through said slot to limit the sliding movement of said tube upon said stem and to pre-

vent said tube from rotating with respect to the latter, and a longitudinally curved lip formed at the end of said tube which is remote from said handle, said lip being positioned to spring over the point of said hook when said tube is slid away from said handle.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

EVERT KEPNER.

Witnesses:
T. C. KENWORTHY,
JACOB KEPNER.