

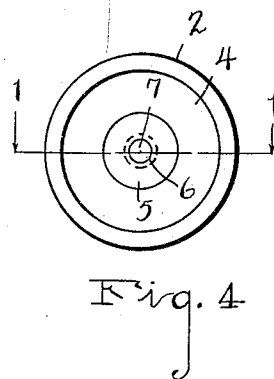
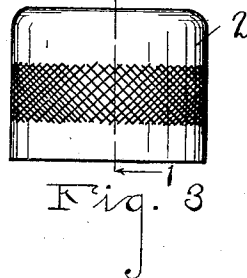
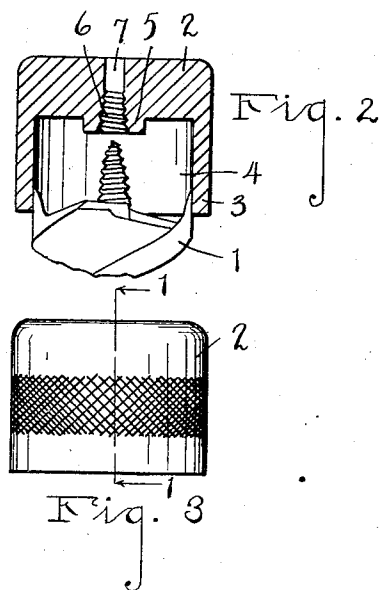
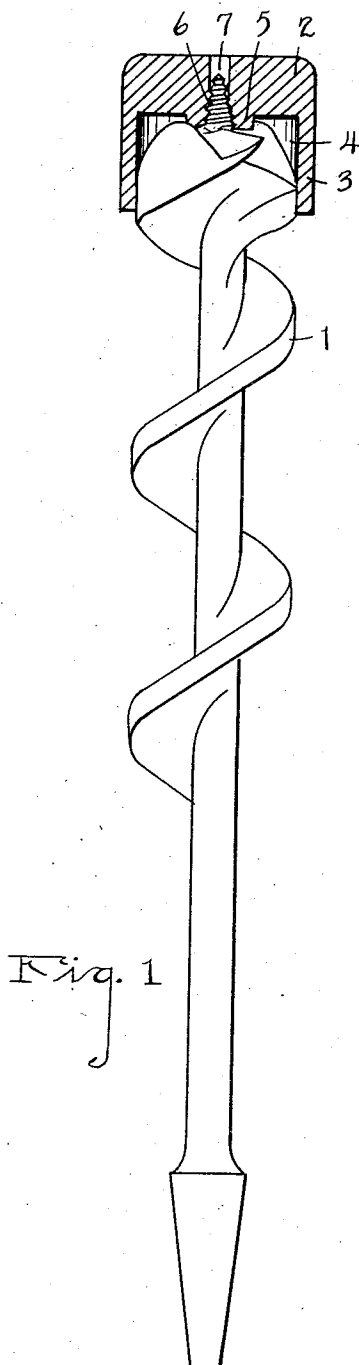
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PROTECTOR FOR BIT POINTS

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BY

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PROTECTOR FOR BIT POINTS.

Application filed April 4, 1927. Serial No. 180,879.

The object of this invention is to provide a bit point protector which will remain securely in place and protect both the screw bit point and the cutting edges.

5 Objects relating to details of construction and operation will appear from the detailed description to follow. The invention is defined and pointed out in the claims. A structure embodying the features of my invention is illustrated in the accompanying drawing, in which:

Fig. 1 is a sectional view taken on line 1—1 of Figs. 3 and 4, showing one of my improved point protectors in place on a bit.

15 Fig. 2 is a detail view of the same in process of application to the bit point.

Fig. 3 is a detail view of the bit point protector removed from the bit.

Fig. 4 is a bottom view of the same.

20 Referring to the drawing, 1 is a bit of usual construction and design of cutters at the point. 2 is my improved bit point protector having a heavy body portion and a tubular wall 3 forming a socket 4 which receives the end of the bit. There is an upwardly projecting boss 5 at the center which contains a tapered screw-threaded hole 6 entirely there-through to receive the screw point of the bit. An aperture 7 extending from the bottom of the screw-threaded part to the outside facilitates manufacture and affords means for readily cleaning the same. The outside of my bit point protector is preferably knurled.

35 In use it will be noted that the cutters of the bit are introduced into a close fitting cylindrical socket and are thereby protected, and as the screw point of the bit screws into the hole it affords a strong support for the center part of the bit, thus supporting the cut-

ters in spaced relation out of contact and in protected relation to the shell.

My improved protector is an exact fit for the particular bit that is being protected and effectively guides the same to place, as seen in Fig. 2. The protector when turned tight onto the point of the bit, due to the taper remains there very securely and the bit can be thrown into a tool box without any danger of injury.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A bit point protector comprising a shell with heavy body and cylindrical side walls forming a socket for the end of the bit, and a boss at the center of the socket containing a tapered threaded hole therethrough to receive the screw pointed tip of the bit and encase the cutters at the sides in spaced relation from the bottom of the socket, as specified.

2. A bit point protector comprising a shell with heavy body and cylindrical side walls forming a socket for the end of the bit, and a boss at the center of the socket containing a tapered threaded hole to receive the screw pointed tip of the bit and encase the cutters at the sides in spaced relation from the bottom of the socket, as specified.

3. A bit point protector comprising a shell with a head body and cylindrical side walls forming a socket for the end of the bit, having a tapered threaded hole to receive the screw pointed tip of the bit and encase the cutters at the sides, as specified.

In witness whereof I have hereunto set my hand.

ROY J. LEWIS.