Jan. 10, 1933. W. F. PERKINS 1,893,596

BUTT FOR BACKFILL TAMPERS

Filed Oct. 3, 1931

Fig. 1.

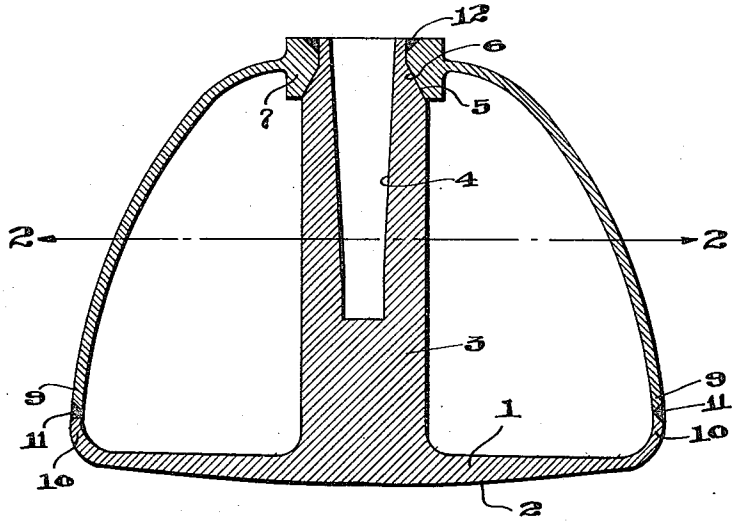
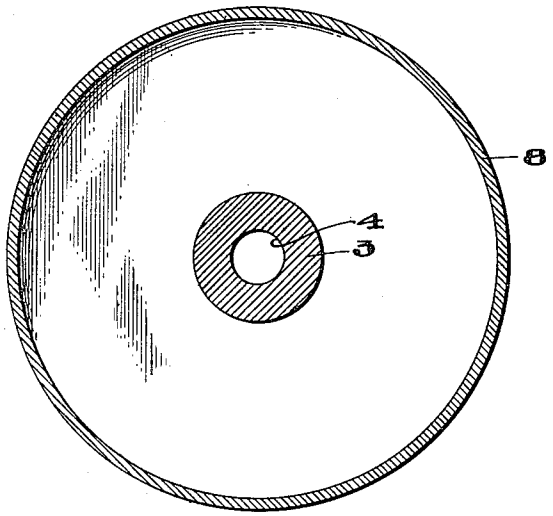


Fig. 2.



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UNITED STATES PATENT OFFICE

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BUTT FOR BACKFILL TAMPERS

Application filed October 3, 1931. Serial No. 566,825.

This invention relates to butts or tamping heads for use in connection with pneumatic backfill tampers such as are used in tamping dirt or loose material in construction work, and an object of the invention is to provide a hollow butt which is of lightweight, strong construction, is simple and may be manufactured at a relatively low cost.

With these and other objects in view, as may appear from the accompanying specification, the invention consists of various features of construction and combination of parts, which will be first described in connection with the accompanying drawing, showing a butt of the preferred form embodying the invention, and the features forming the invention will be specifically pointed out in the claims.

In the drawing:

Fig. 1 is a vertical section through the improved butt.

Fig. 2 is a horizontal section on the line 2—2 of Figure 1.

Referring more particularly to the drawing, the improved tamping butt for use in connection with percussive backfill tampers is preferably formed of steel or analogous strong and durable metal and it comprises the disc-like hammer face 1, the outer surface 2 of which may be convexly curved if desired. A percussive engine piston rod receiving stem 3 is formed integrally with the hammer face 2 and projects upwardly from the axis of the hammer face, as clearly shown in Figure 1 of the drawing. The stem 3 is provided with the usual tapered socket 4 for receiving the end of the piston rod (not shown).

The stem 4 has a taper 5 at its upper end which cooperates with a tapered bore 6 formed in the sleeve 7 to provide a cone and socket joint between the stem 3 and the hood 8 for properly positioning the hood 8 upon the stem. The hood 8 is substantially bell-like or of any desired shape to provide the proper shape to the butt and its lower edge 9 engages the upturned annular edge 10 of the hammer face 1. The lower edge of the hood 8 is welded to the upturned annular edge 10 as shown at 11 and the sleeve 7 is welded as shown at 12 to the stem 3 so that when the hood, hammer face and stem are assembled a substantially integral hollow butt is provided which is of strong, durable construction, as well as being comparatively light in weight. The two sections, namely, the combined hammer face and stem and the hood of the butt may be formed from steel forgings and it will be noted that very little machining will be necessary in the construction of the butt as well as very little work will be necessary in assembling the device; also that the hammer face of the butt which is subject to impact with the material being tamped is entirely free from any joints of any kind whether welded or otherwise, which will greatly eliminate liability of breakage of the butt.

It will be understood that the invention is not to be limited to the specific construction or arrangement of parts shown, but that they may be widely modified within the invention defined by the claims.

What is claimed is:

1. As a new article of manufacture, a butt for backfill tampers comprising a hammer face having an annular upturned edge, a piston rod receiving stem formed integral with said hammer face, and a hood mounted upon said stem and having its lower edge engaging and welded to the upturned edge of the hammer face.

2. As a new article of manufacture, a butt for backfill tampers comprising a hammer face, a piston rod receiving stem formed integral with the hammer face, a hood, said hood and stem having a cone and socket joint, said hood being welded to said stem and hammer face.

3. As a new article of manufacture, a butt for backfill tampers comprising a hammer face, a piston rod receiving stem formed integral with the hammer face, a hood, said hood and stem having a cone and socket joint, said hammer face having an upturned annular edge, said hood being welded to said stem and to said upturned annular edge.

4. As a new article of manufacture, a butt for backfill tampers comprising a disc like hammer face, a piston rod receiving stem

formed integrally with the hammer face and extending at right angles thereto from the center of the hammer face whereby a blow delivered to the tamper butt will be delivered through said stem directly to said hammer face, a hollow hood, said stem having a tapered portion thereon adjacent its end remote from said hammer face, a collar on said hood and having a tapered portion fitting the tapered portion of said stem.

In testimony whereof I affix my signature.

WALTER F. PERKINS.