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C. A. ULFVES
DETACHABLE HAMMER TIP
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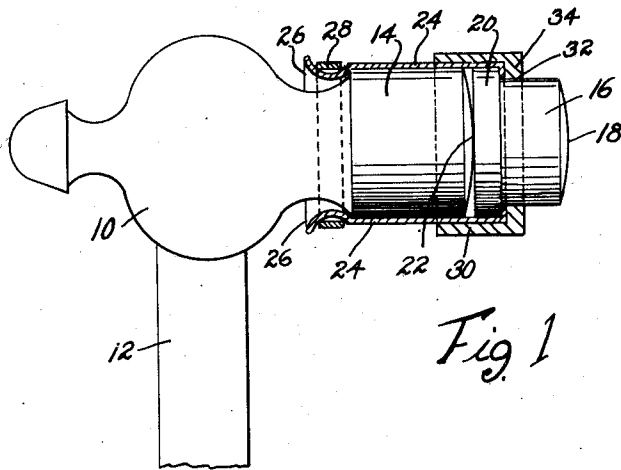


Fig. 1

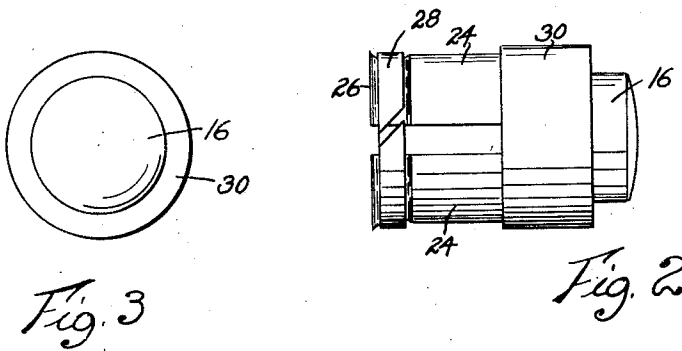


Fig. 3

Fig. 2

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DETACHABLE HAMMER TIP

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3 Claims. (Cl. 145—29)

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This invention relates to detachable hammer tips and the principal object of the invention resides in the provision of a new and improved detachable soft tip or head for hammers so as to provide a soft striking element for a conventional hammer.

Further objects of the invention reside in the provision of a relatively soft striking element or core surrounded by a ring which embodies means for detachably securing the same to the striking face of the hammer, said ring tightly fitting the soft striking element and preventing the same from being distorted outwardly under impact; and the provision of a shouldered soft striking element in combination with means for detachably securing the same to a hammer head, said means being disposed on said shoulder and maintained thereon by means of a ring surrounding the soft striking element and maintaining the same in position as a unit.

Further objects of the invention reside in the provision of a device as above described and including resilient means holding the same to a hammer head, said resilient means providing easy attachment and detachment thereof while, at the same time, firmly holding the same in striking position on the hammer.

Other objects and advantages of the invention will appear hereinafter.

Reference is to be had to the accompanying drawings in which

Fig. 1 is a view in side elevation of the hammer attachment in position on the hammer, parts being in section;

Fig. 2 is a view in side elevation of the attachment; and

Fig. 3 is a view in front elevation thereof.

As shown in Fig. 1 there is provided a conventional hammer head 10 having a handle 12 and a striking element or head of conventional design indicated at 14. The invention resides in an attachable and detachable striking element which will be secured to the striking element of the hammer in such a way that it provides a soft striker for the hammer which is quick and easy to attach and detach and which obviates the use of a separate plastic, leather, or soft metal hammer.

A cylindrical soft striking element or core 16 is provided with a rounded face as at 18 to provide for dead center hammering and an integral flange 20 providing a shoulder. The soft element 16 has a plane rear surface 22 for contact with the rounded striking face surface of the hammer element 14.

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Disposed on the shoulder formed by flange 20 there are a plurality of arcuate spring fingers 24 which extend to the rear and terminate in reversely bent elements 26 forming a funnel-like conformation for easy attachment to the hammer head 14. A split ring 28 surrounds the resilient fingers to insure the holding power thereof behind the hammer head 14.

A steel or the like ring 30 closely fits both the spring fingers and the flange 20 as well as the periphery of the striking element 16 as at 32, by means of a flange 34, and it is to be understood that the elements 16, 30, and 24 provide together a permanently secured integral unit as shown in Fig. 2.

The soft striking element comprising the part 16, the ring 30, the spring fingers 24, and the split ring 28 is easily slipped on and off the hammer head 14 but, at the same time, is held tightly thereon by the spring fingers in the ring 28 so that the invention provides an efficient yet inexpensive soft hammer head for use wherever soft hammers are needed; and it is also to be understood that the material of which the element 16 is made may be any material convenient or desired to be used without departing from the scope of the invention.

In use of the device, the soft core or striking element 16 will tend to spread, but excess of distortion is prevented by the ring 30, and the core will be more tightly held to the ring. Regardless of spreading or distortion of core 16, however, the fingers 24 will always firmly hold the device to the hammer, the spring finger construction and split ring 28 allowing for some degree of flattening of the core flange 20, which will be small, most of the core distortion occurring in the exposed portion of the core.

Having thus described my invention and the advantages thereof, I do not wish to be limited to the details herein disclosed otherwise than as set forth in the claims, but what I claim is:

1. A device of the class described comprising a shouldered ring, a cooperatively shouldered relatively soft core extending therefrom, said ring tightly fitting the core, and means to detachably secure the device to the head of a hammer, said means comprising separate spring fingers, a flange at the end of each finger, the flanges being inserted between the core and ring shoulders and thereby held to the device.

2. A device of the class described comprising a flanged ring, a flanged soft core, the core being located in the ring with the flanges in substantial

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contact preventing movement of the core relative to the ring in one direction, separate spring fingers to secure the device to a hammer head, said core having a plane end face surface for contact by the hammer face, said spring fingers being flanged at corresponding ends, and the flanges being held between the flanges of the core and ring.

3. The device of claim 2 wherein the spring fingers extend back of the hammer head and are formed into a groove, and a split ring in the groove.

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