July 4, 1944. F. W. OTTMER 2,352,733

COLLAR FOR RIVETING HEADS

Filed Jan. 9, 1943

Fig. 1.

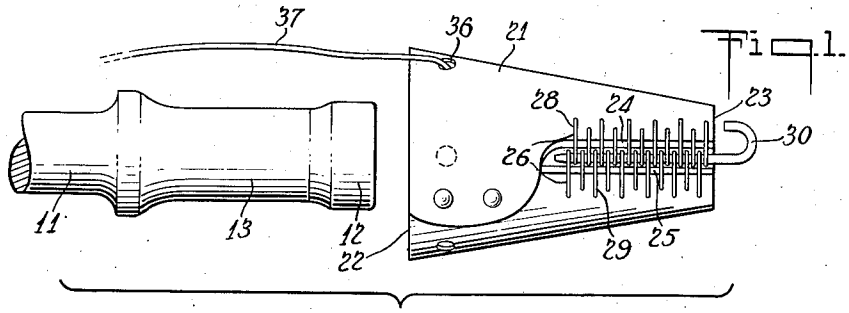


Fig. 2.

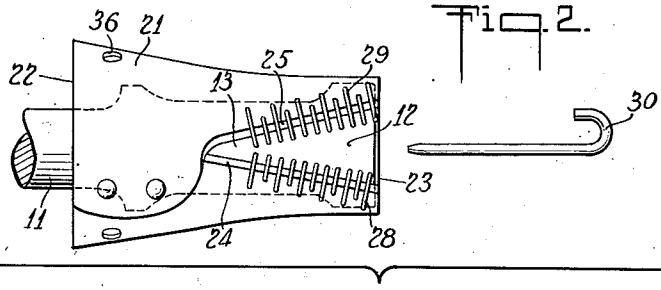


Fig. 3.

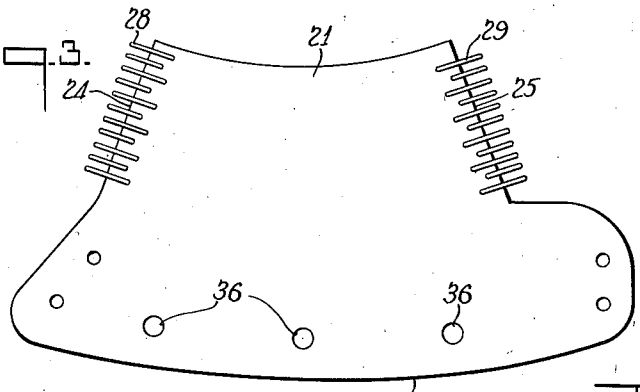


Fig. 4.

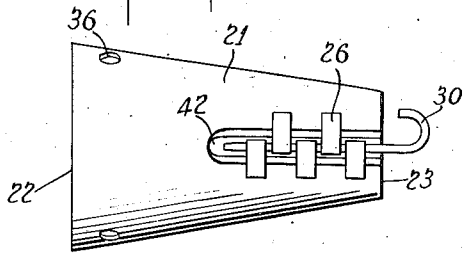
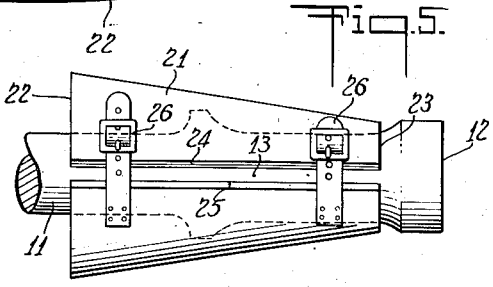


Fig. 5.



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COLLAR FOR RIVETING HEADS

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Application January 9, 1943, Serial No. 471,915

4 Claims. (Cl. 78—46)

My invention relates to collars for riveting heads, more particularly to collars for insulating the shank of a riveting gun to prevent the heat accumulated from constant use from burning the operator, and has for its object to provide a collar that will fit snugly around the reduced neck of the shank under the head and be adaptable to expand at the reduced portion so that the collar can be slid over the enlarged head of the riveting gun and be easily removed.

A further object of my invention is to provide a collar that may be easily adjusted on and off the riveting gun head and one that will be a convenient hand grip so that the accumulated heat within the head will not be readily transferred to the hand of the operator.

A further object is to provide such a hand grip that is durable and economical to manufacture.

The foregoing and other features of my invention will now be described in connection with the accompanying drawing forming part of this specification in which I have represented my collar for riveting heads in its preferred form after which I shall point out in the claims those features which I believe to be new and of my own invention.

In the drawing:

Figure 1 is a side view of my collar in position for mounting on the shank of a riveting gun.

Figure 2 is a side view showing my collar with the small end in its expanded position so that it may go over the head of the shank of the riveting gun, locking pin **30** being removed.

Figure 3 is the preferred shape of the blank of of material out of which my frustoconical annular collar is formed.

Figure 4 is a side view of a modification which I may employ when the annular collar is formed into a frustoconical ring.

Figure 5 is a modified form of the fastening devices which I may employ.

My invention is especially adapted for use on a riveting gun and is most desirable when the gun is continually used in driving rivets, where the vibrating head accumulates heat from contact with the hot rivets, for it may be used as a hand grip thereby protecting the hand of the operator by retarding the transfer of heat.

In the drawing Figure 1, I show a shank **11** of a standard riveting gun having a riveting head **12** and a reduced portion or neck **13**. In the carrying out of my invention I provide a frustoconical annular ring **21** having a larger diameter **22** that is larger than the diameter of the riveting head **12** and a smaller diameter **23** that is smaller than the head **12**. On each edge **24** and **25** I provide means **26** to securely hold the edges together when the frustoconical collar is in place around the neck **13** of the riveting head **12**.

I have illustrated my preferred form of holding means **26** as a standard wire belt lacing which is well known to the trade as "carded belt lacing." In this form I provide a series of wire loops **28** extending beyond the edge **24** and a series of wire loops **29** extending beyond the edge **25** of the material. When the edges **24** and **25** are brought together, these loops register and readily accommodate a holding pin **30** thereby holding the frustoconical member in its operating position.

On the larger end **22** I provide a nmber of punched holes **36** to provide an anchorage for a thong or wire **37** by means of which the collar may be fastened to the riveting gun.

In Figure 2 I illustrate my collar **21** while being slipped over the head **12** after the small end **23** has passed over the head. The edges **24** and **25** are squeezed together until the loops **28** and **29** register, whereupon the pin **30** is inserted holding the collar firmly around the neck **13** of the riveting head.

In Figure 3 I show the preferred shape of the piece of leather or similar material out of which I hake my frustoconical collars.

Figure 4 shows the collar moulded out of heat resisting material without seam, the slot **42** being formed part way down the side. The edges of the slot **42** are provided with means **26** for locking the collar together when in place.

I may form my collar out of a simple piece of material and hold the edges **24** and **25** together so as to form the frustoconical shape of my collar by using buckles and straps as the means **26** of holding the collar in place on the neck **13** of the riveting head **12**.

While I prefer to make my collar out of good heavy white oak leather similar to that used on soles of shoes, I may find that other material will be more suitable. It is necessary to have a material that does not readily transfer heat and it must be tough and sufficiently substantial enough to withstand hard usage. I may also find it desirable to line the collar with a heat resisting material providing imitation leather or other inferior material is the only material available.

I wish it distinctly understood that my collar for riveting head herein above described and illustrated is in the form in which I desire to

construct it and that changes or variations may be made as may be desirable without departing from the salient features of my invention and I therefore intend the following claims to cover such modifications as naturally fall within the lines of invention.

I claim as my invention:

1. A collar for a riveting head having a reduced neck, comprising a substantially frustoconical annular member of flexible material having a smaller diameter smaller than the diameter of the riveting head, and a larger diameter, larger than the diameter of the riveting head, a slot part way through the side of the annular member at the smaller end thereof, a series of loops fastened to both edges of the slot and extending beyond the edges thereof so that the loops overlap, a pin adapted to engage the overlapping loops thereby securely holding the edges of the slot together when the collar is secured in place on the neck of the riveting head.

2. A collar for a riveting head comprising substantially a frustoconical annular member formed out of a strip of leather, the opposing edges of the leather forming the conical annular member being provided with opposing loops fastened to the edges and extending beyond the edges thereof so that the loops overlap, a pin adapted to engage the overlapping loops so that the leather will be held in its annular shape.

3. The device of claim 2 including a lining of heat resisting material.

4. The device of claim 2 including a series of holes around the larger circumference of the annular member, means carried by the holes for securing the collar to the handle of the riveting gun.

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