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SEAL FOR BANDS AND THE LIKE

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Fig. 1.

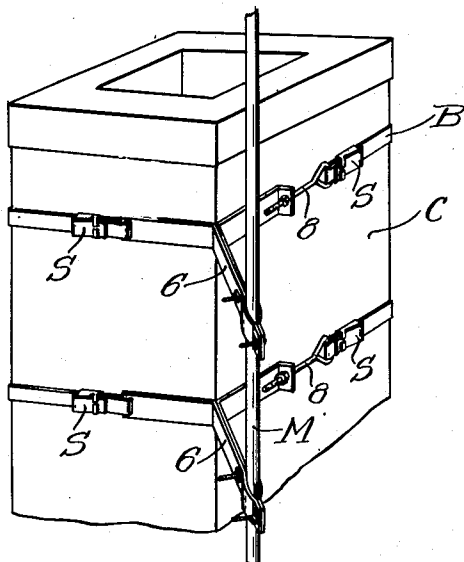


Fig. 2.

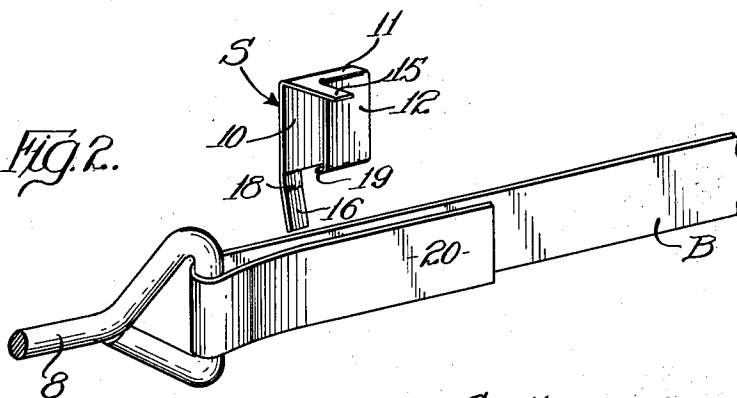


Fig. 3.

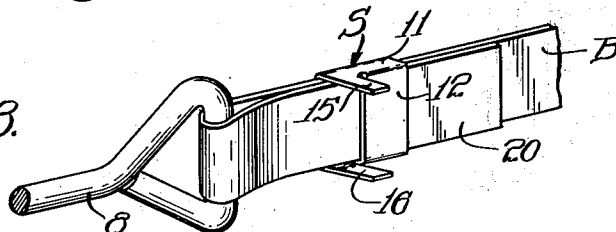
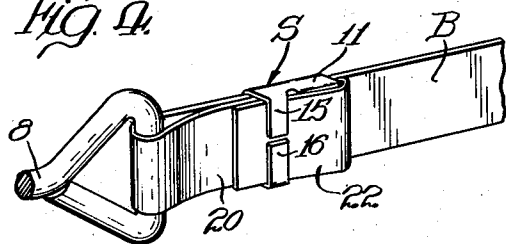


Fig. 4.



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SEAL FOR BANDS AND THE LIKE

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4 Claims. (Cl. 24—265)

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This invention relates to a seal of the kind used to secure, to an eye or other object, one end of a tension band in the general form of a strap, and more particularly such as is made of metal. It consists of a one-piece stamping so formed as to be laterally applicable to the band end portion which is to be secured, and cooperating therewith in holding the band fixedly in any desired lengthwise adjusted position.

A useful application of the present seal is with metallic bands which are employed in connection with mounts for antenna and the like. Such bands are commonly placed around a chimney, or other vertically extending object, with opposite ends of the band attached to a mast supporting bracket. It is important that the band be adjusted with a requisite tension according to the conditions of each application, and when done that this adjustment be made secure by use of the present seal irrespective of any screw-threaded adjusting device which may optionally be employed.

A suggestive embodiment of this invention is illustrated in the accompanying drawing wherein—

Figure 1 is a perspective view of the upper end portion of a chimney to which are applied two bands each in connection with a mast-supporting bracket, opposite ends of each band being secured with the use of the present seal;

Fig. 2 is a perspective view of one end of a band inserted through an eye for securement thereto, the seal being shown proximate to one edge of the band in position for application thereto by a movement which is laterally of the band;

Fig. 3, which is a similar view, shows the seal applied to the band with the laterally extended ear of the seal bent pursuant to a first operation; and

Fig. 4 is a similar view showing both ears of the seal bent to their locking positions in pursuance of a final operation.

In Fig. 1 is indicated a suggestive application of two attaching bands B to a chimney C, each band being connected to a corner bracket 6 which affords vertical support to a mast M. One end of each band is shown as attached directly to the bracket whereas the other band end is connected to an eye bolt 8 which is adjustably secured to the bracket. Applied to each end portion of the band is the improved seal S of this invention.

As shown best in Figs. 2-4, the seal may be produced from a metallic stamping of one piece in a form ready for application to the band to be secured. Each seal comprises a base 10 hav-

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ing along one side a transversely disposed web 11 which supports a head 12 that is extended nearly in parallelism with the base but spaced therefrom. Adjacent the web 11 and in coplanar relation therewith is an ear 15 which is also extended transversely of the base but for a distance considerably further therefrom than is the head. Opposite the ear 15 is a second ear 16 that is extended laterally away from the base, with a transverse pre-formed bend line 18 at a point which is a distance from the base 10 substantially equal to the distance through which the web 11 proceeds away from the base. A flange 19 is turned inwardly from the edge of the head 12 toward the base 10 at a point about opposite the edge thereof from which the ear 16 is extended.

A seal so constructed and formed is applied to the band B when it is ready to be secured. One end portion of the band is first inserted through the eye to which it is to be attached, and then doubled back upon itself to form a second ply 20 as shown best in Fig. 2. The seal is then advanced laterally to straddle the two band plies which are free to pass between the base 10 and the flange 19 so as to occupy positions between the base and head 12. Initially the head may stand out at a slight angle relative to the base so as to maintain sufficient clearance between its flange and the base to facilitate movement therethrough of the two plies of the band. At this point the laterally extended ear 16 is bent outwardly into parallelism with the outturned ear 15 so as to extend past the proximate edge of the two plies of the band, thereby confining the band against lateral shifting movement relative to the seal.

As a final operation, the doubled end portion 20 of the band may be doubled back once more to overlie the head, as shown in Fig. 4. When done, the two ears 15 and 16 are then struck down, as by a hammer, so that their end portions engage this outermost third ply 22 of the band, as indicated clearly in Fig. 4. In this operation the head 12 will also be pressed down tightly against the second band ply 20. The band, in the region where attachment is made to the eye, is thus twice doubled upon itself, once when passing through the eye and again when reversing itself adjacent the head of the seal. The two ears which are arranged to engage the outermost ply 22 of the band in its final position prevent any slipping or release movement of the band so that the seal may be counted upon to effectively hold these parts fixedly in position.

Whether or not an eye bolt 8 be used as a

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medium for attachment of either end of the band is immaterial. This is just one example of a device to which the band may be attached. Another example is the slot shown at one end of the mast-supporting bracket 6. In any case where the band is to be fitted through or around a part where attachment is to be made, the end portion of the band when doubled back upon itself is adapted to receive the present seal and be secured thereby so as to remain fixedly in place.

I claim:

1. A seal for fastening a band when inserted through an eye and doubled back upon itself to form a loop and provide a second ply at the free end portion thereof, comprising a plate fitted against one face of the band at one side of said loop intermediately of the ends thereof and provided with a web contiguous to one side edge of the band and the adjacent side edge of said second ply, a head formed integrally with a portion of the web and extending across said second ply of the band, said seal being initially open at the side opposite the web to permit the seal to be inserted laterally over the loop of the band, the free end of the second ply of the band being doubled on itself over said head forming a third ply, and ears located at opposite sides of the seal and extending transversely thereof from the web and from said plate and engaging the third ply of the band, one of said ears initially lying substantially in the plane of the plate to permit lateral insertion of the seal over the band.

2. A seal for fastening a band when inserted through an eye and doubled back upon itself to form a loop and provide a second ply at the free end portion thereof, comprising a plate fitted against one face of the band at one side of said loop intermediately of the ends thereof and provided with a web contiguous to one side edge of the band and the adjacent side edge of said second ply, a head formed integrally with a portion of the web and extending across said second ply of the band and provided at its free side edge with an inturned flange engaging the adjacent side edge of said second ply, said seal being initially open at the side opposite the web to permit the seal to be inserted laterally over the loop of the band, the free end of the second ply of the band being doubled on itself over said head forming a third ply, and ears located at opposite sides of the seal and extending transversely thereof from the web and from said plate and engaging the third ply of the band, one of said ears initially lying substantially in the plane of the plate to permit lateral insertion of the seal over the band.

3. A seal for fastening a band when inserted through an eye and doubled back upon itself to form a loop and provide a second ply at the free

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end portion thereof, comprising a plate fitted against one face of the band at one side of said loop intermediately of the ends thereof and provided with a web contiguous to one side edge of the band and the adjacent side edge of said second ply, a head formed integrally with a portion of the web and extending across said second ply of the band and provided at its free side edge with an inturned flange engaging the adjacent side edge of said second ply, said seal being initially open at the side opposite the web to permit the seal to be inserted laterally over the loop of the band, the free end of the second ply of the band being doubled on itself over said head forming a third ply, and a pair of ears disposed transversely of the seal and engaging the third ply of the band, one of the ears being straight and extending from the web in the same plane thereof and the other ear extending from the plate and lying substantially in the plane of the plate to permit lateral insertion of the seal over the band.

4. A seal made from a one-piece stamping for fastening the end of a band folded to provide three plies which comprises a base plate having an integral web portion extending from a first side of said plate, said web portion lying in a plane substantially normal to the plate, a head portion depending from the web portion and lying in a plane parallel to the plane of the base plate to provide a band receiving space therebetween, said head portion having an inwardly turned flange at its free edge for enclosing the portion of the band located between said head portion and base plate, an ear adjacent the web portion and extending from said first side of the plate, and a second ear extending from the other side of said base plate, said second ear lying substantially in the plane of said base plate to permit lateral insertion of the seal over the band.

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