

Dec. 28, 1937.

H. LEACH

2,103,292

SEAL

Filed Oct. 28, 1937

Fig. 1.

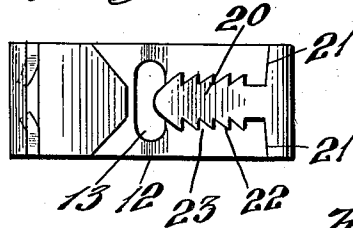


Fig. 2.

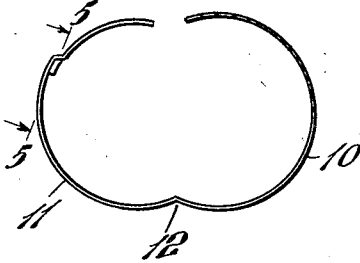


Fig. 3.

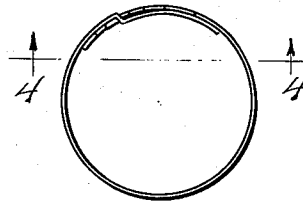


Fig. 4.

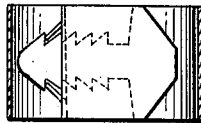


Fig. 7.

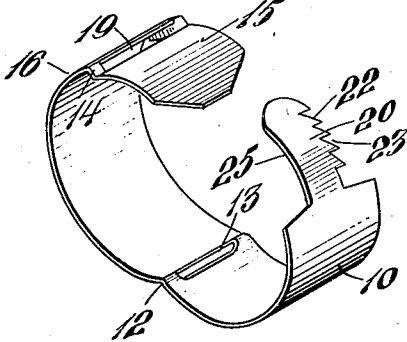


Fig. 6.

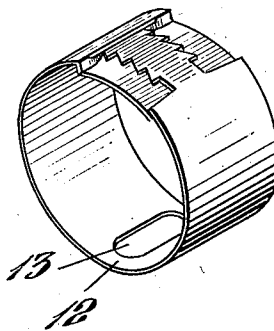
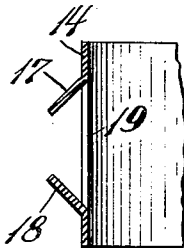


Fig. 5.



INVENTOR.
Harry Leach
BY *Barlow & Barlow*
ATTORNEYS.

UNITED STATES PATENT OFFICE

2,103,292

SEAL

Harry Leach, Providence, R. I.

Application October 28, 1937, Serial No. 171,428

4 Claims. (Cl. 40—3)

This invention relates to a seal more particularly of the type which is in band form to encircle some object, for instance as a chicken's leg; and has for one of its objects to provide a seal which when attached cannot be removed without destroying it so that the seal cannot be shifted from one object to another.

Another object of the invention is to provide a seal which cannot be tampered with by some unscrupulous person without detection.

Another object of the invention is the provision of a construction which will be simple of formation and yet effective in its holding qualities so that the parts will be secured against being tampered with or broken.

Another object of the invention is the provision of a resiliency about the slot for holding two ends of a band with one end portion extending through a slot in the other end portion in closed position.

A further object of the invention is the provision of a resilient latch cut from the stock which is to form a slot in the band and is so disposed as to effect a holding of the part which extends through the slot.

With these and other objects in view, the invention consists of certain novel features of construction, as will be more fully described, and particularly pointed out in the appended claims.

In the accompanying drawing:

Fig. 1 is a top plan view of a strip of stock with the band in open position such as shown in Fig. 2;

Fig. 2 is a side elevation thereof;

Fig. 3 is a view similar to Fig. 2 showing the band in closed position;

Fig. 4 is a section on line 4—4 of Fig. 3;

Fig. 5 is a section on line 5—5 of Fig. 2;

Fig. 6 is a perspective view of the structure shown in Figs. 1 to 4 and in a position with the narrowed tongue portion just entering the slot;

Fig. 7 is a perspective view of a modified form showing the teeth as formed on one edge of the tongue only rather than both edges.

Seals for marking different objects are desired having such structure as to permit of their easy attachment but preventing their removal or alteration without detection; and in order to formulate such a structure I have fashioned a strip of sheet stock in two arcuate portions which are secured together by a bendable portion at one end and detachably secured together at the other end, such as by an interlocking connection between the parts; and I have arranged so that there will be a resilient latch cut from the stock of one part to provide a slot with a narrowed

portion at the other end of the band extending through the slot and being locked by the resilient latch in any selected one of a plurality of different encircling sizes which provides an arrangement so that the band cannot be opened up from any one of the sizes from which it is collapsed; and the following is a more detailed description of the present embodiment of this invention, illustrating the preferred means by which these advantageous results may be accomplished:

With reference to the drawing, 10 designates one arcuate section of a strip of material and 11 another arcuate section, these being formed up from a single piece of sheet stock by suitable cutting and press work. These sections 10 and 11 are left joined together by a bendable portion 12 which is cut away as at 13 so as to weaken this point of connection and locate a bending point when pressure is applied to the sections. This single slot 13 is merely illustrative, however, of one form of weakening the connection between these sections, as other forms may be had.

Section 11 is offset as at 14 so as to dispose one portion 15 of the strip in a plane distinctly different from the portion 16 of a strip adjacent this offset 14. This offset is of a dimension a little greater than the thickness of the stock from which the strip is formed. Latches 17 and 18 are cut from the stock of this strip at the offset 14 to provide a slot 19 while these latches extend inwardly from the slot and beneath the portion 16 of the strip of band material, although they extend angularly toward each other, as shown more clearly in Fig. 5.

The opposite end of section 10 is reduced in its width as at 20 to provide a narrowed tongue portion with shoulders 21 at the juncture of this tongue portion 20 with the band. This narrowed portion 20 is of a width to pass through the slot 19 somewhat snugly and is formed with teeth 22 separated by notches 23 along its opposite edges so that as this tongue 20 is passed through the slot the latches 17 and 18 will engage back of the teeth 22 in notches 23 and prevent the tongue or narrowed portion 20 from being withdrawn from the slot, and when this band tightly embraces some object one will not have access of the latches 17 or 18 to remove them from the teeth of the narrowed portion and thus the band cannot be opened after once closed.

In some cases instead of providing notches and teeth on both side edges of the tongue 20 I provide these on one side only, as shown in Fig. 7, with a smooth edge 25 along the other surface, and in this case the latch such as 18 will engage

the smooth edge and maintain it in position so that the latch 17 will enter the notches 23 and engage the teeth 22. The relative widths, however, of the parts are such that the resiliency of the latch 18 will not permit sidewise movement of the tongue 20 to an extent sufficient to detach it from the latch 17.

The foregoing description is directed solely towards the construction illustrated, but I desire it to be understood that I reserve the privilege of resorting to all the mechanical changes to which the device is susceptible, the invention being defined and limited only by the terms of the appended claims.

I claim:

1. A seal comprising a strip of sheet material bent into substantially circular form, with the end portions of the strip overlapping, one end portion having a slot therein, the other end portion being of a narrowed width to extend over the outer surface of the band and through said slot, teeth along an edge of said narrowed portion, and a resilient latch at one end of said slot to engage said teeth and prevent withdrawal of said toothed portion from said slot.

2. A seal comprising a strip of sheet material bent into substantially circular form, with the end portions of the strip overlapping, one end portion having an offset with a slot in said offset portion, the other end portion being of a nar-

rowed width to extend over the outer surface of the band and through said slot, teeth along an edge of said narrowed portion, and a resilient latch at one end of said slot to engage said teeth and prevent withdrawal of said toothed portion from said slot.

3. A seal comprising a strip of sheet material bent into substantially circular form, with the end portions of the strip overlapping, one end portion having a slot therein, the other end portion being of a narrowed width to extend over the outer surface of the band and through said slot, teeth along opposite edges of said narrowed portion, and resilient latches at the opposite ends of said slot to engage said teeth and prevent withdrawal of said toothed portion from said slot.

4. A seal comprising a strip of sheet material bent into substantially circular form, with the end portions of the strip overlapping, one end portion having a slot therein, the other end portion being of a narrowed width to extend over the outer surface of the band and through said slot, teeth along an edge of said narrowed portion, and a resilient latch at one end of said slot to engage said teeth and prevent withdrawal of said toothed portion from said slot, said latch being formed from the stock which is cut out to provide said slot and thus integral with said strip.

HARRY LEACH. 30