Feb. 8, 1927. 1,617,070

L. MALLETTE

SPRING CLIP

Filed April 20, 1926

Fig. 3.

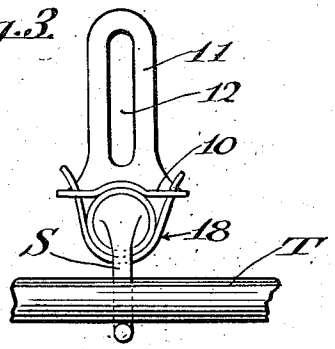


Fig. 2.

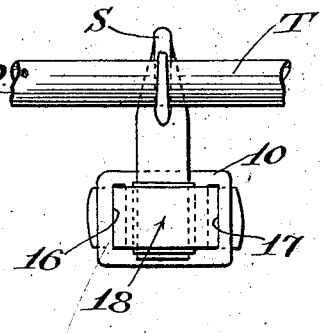


Fig. 1.

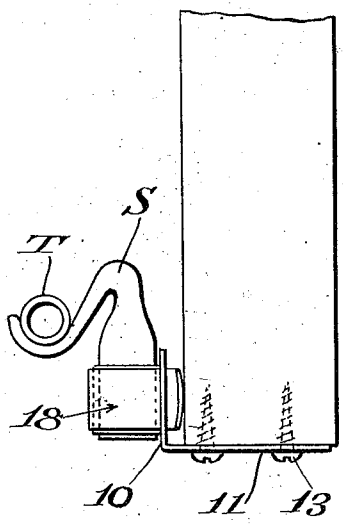


Fig. 6.

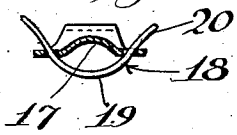


Fig. 4.

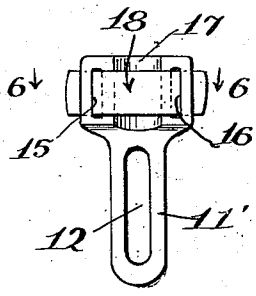


Fig. 5.

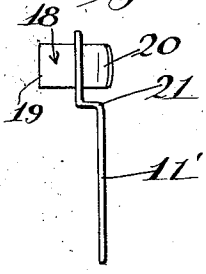


Fig. 7.

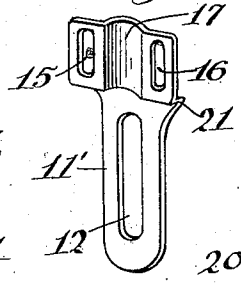


Fig. 8.

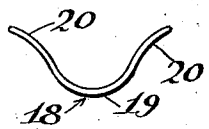
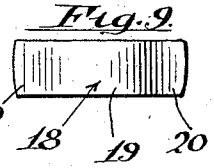


Fig. 9.



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Patented Feb. 8, 1927. 1,617,070

UNITED STATES PATENT OFFICE.

LYLE MALLETTE, OF LOS ANGELES, CALIFORNIA.

SPRING CLIP.

Application filed April 20, 1926. Serial No. 103,229.

This invention relates to improvements in spring clips or clamps.

An object of this invention is to provide an improved spring clip or clamp which is of cheap, simple and durable construction and which will effectively hold a suitable article.

With the foregoing and other objects in view which will be made manifest in the following detailed construction and specifically pointed out in the appended claims, reference is had to the accompanying drawings for an illustrative embodiment of the invention, wherein:

Figure 1 is a view in side elevation illustrating one modification of the invention in applied position,

Fig. 2 is a front view in elevation of the improved spring clip,

Fig. 3 is a top plan view of the clip,

Fig. 4 is a front view in elevation of a modification,

Fig. 5 is a side elevation of the same,

Fig. 6 is a sectional view taken on the line 6—6 of Fig. 4,

Fig. 7 is a perspective view of the body part or supporting member of a modified form of the improved clip,

Fig. 8 is a plan view of the resilient member forming a part of the improved clip, and

Fig. 9 is a front view in elevation of the resilient member.

Referring to the accompanying drawings wherein similar reference characters designate similar parts throughout, the improved clip or clamp consists of two parts, one part constituting a supporting member formed of sheet metal having an upstanding portion 10, and in the modification shown in Figs. 1, 2 and 3 a horizontal portion 11 is arranged at right angles to the upstanding portion 10. The horizontal portion 11 constitutes a securing arm or bracket and is slotted, as indicated at 12, to receive screws 13 in fastening the clip to a suitable support. In the upstanding portion of the body or supporting member there are formed two vertical parallel slots 15 and 16, and in the preferred form of construction, the upstanding portion is crimped slightly, so that it will present a concaved forward surface or a vertically grooved surface which is parallel to the slots 15 and 16, as indicated at 17. A resilient member which is also formed of sheet metal is provided and this resilient member is indicated at 18. It is centrally curved or bowed, as indicated at 19, and has its ends extending through the slots 15 and 16. The extremities of the resilient member are slightly reversely bent, as indicated at 20.

The operation of the improved clip is as follows: The clip has been designed primarily for supporting illuminating tubes in advertising signs, which are indicated at T. The supports for these tubes are indicated at S and are supported in the clips. These supports are preferably cylindrical in form. In order to insert them in the clip, the extremities of the resilient member 18 are pressed toward each other and forwardly, so that the central portion 19 is caused to move away from the upstanding portion 10 of the supporting member. While in this position the base of the support S can be inserted between the central portion 19 of the resilient member and the forward face of the supporting member. The ends of the resilient member are then released and from the natural spring of the resilient member, the resilient member tends to flatten out and to spread its ends so that the central portion 19 is urged toward the forward face of the supporting member, clamping the base of the support S therebetween. The base of the support S fits in the groove 17, so that a considerable frictional contact is established between the clip and the support S. Also any tendency of the support S to fall over upon either side is effectively prevented.

The modification shown in Figs. 4 to 7 inc. is practically the same as that shown in Figs. 1 to 3 inc., with the exception that the securing bracket 11′ instead of being arranged at right angles to the portion 10 is parallel thereto and offset therefrom, as indicated at 21.

From the above described construction it will be readily appreciated that the improved clips can be very easily, quickly and cheaply manufactured, and that they will effectively clamp upon and support any suitable article. Furthermore, the improved clips can clamp upon and support articles of various sizes, depending upon how far the ends 20 of the resilient member are moved toward each other to cause the central portion 19 to move away from the supporting member. The ends 20 are preferably reversely bent slightly, so that on causing the clip to clamp on fairly large articles, any

tendency of the ends of the resilient member to be withdrawn through the slots 15 or 16 is effectively prevented.

It will be understood that various changes may be made in the detail of construction without departing from the spirit or scope of the invention as defined by the appended claims.

I claim:

1. A device of the class described, comprising a supporting member of rigid sheet material, said member having an elongated slot whereby the same may be attached to an object, said member having an upstanding flange, an arcuate depression in said flange adapted to bear against a support, wings extending laterally and in substantial alignment from said arcuate depression, a slot in each of said wings, said slots being parallel, and a curved resilient member having its ends extending through said slots, said resilient member normally tending to assume a position wherein its ends are a greater distance apart than the distance between said slots, whereby said resilient member will cause its center portion to assume a position adjacent the portion of the supporting member between the slots.

2. A device of the class described comprising a supporting member of rigid sheet material, said member having an upstanding flange, an arcuate depression in said flange adapted to bear against a support, wings extending laterally from said arcuate depression, a slot in each of said wings, said slots being parallel, and a curved resilient member having its ends extending through said slots, said resilient member normally tending to assume a normal position wherein its ends are a greater distance apart than the distance between said slots.

3. A device of the class described comprising a supporting member of rigid sheet material, said member having an arcuate depression therein adapted to bear against a support, wings extending laterally from said depression, a slot in each of said wings, said slots being parallel, and a curved resilient member having its ends extending through said slots, said resilient member normally tending to assume a position wherein its ends are a greater distance apart than the distance between said slots.

4. A device of the class described comprising a supporting member of rigid material, an arcuate depression in said member adapted to bear against an object, wings extending outwardly from said arcuate depression, elongated slots in said wings, said slots being parallel, and a strip of resilient material adapted to have its ends extend through said slots, said resilient material normally tending to assume a normal position wherein its ends are a greater distance apart than the distance between said slots.

In testimony whereof I have signed my name to this specification.

LYLE MALLETTE.