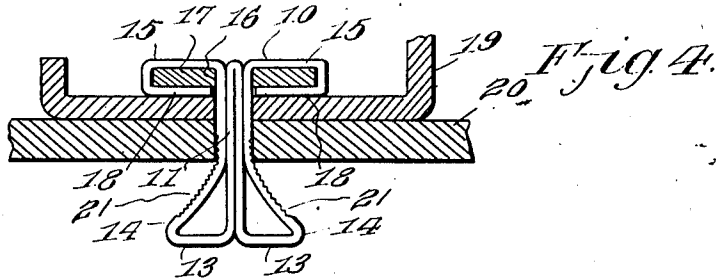
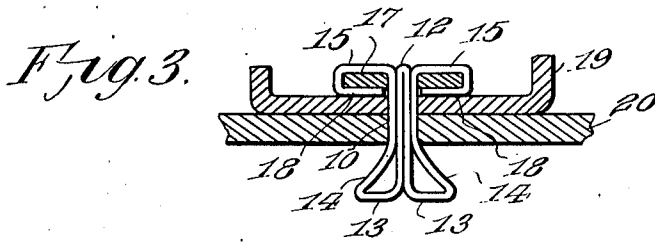
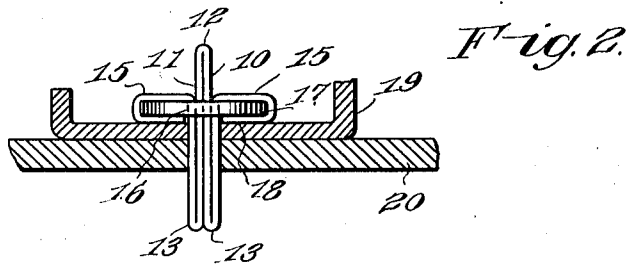
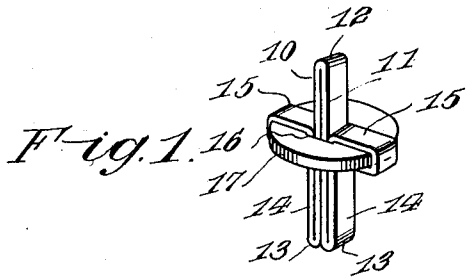


J. J. DUNN.
FASTENING DEVICE.
APPLICATION FILED AUG. 2, 1911.

1,031,431.

Patented July 2, 1912.



Inventor

Julius J. Dunn,

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Witnesses

Frank Hough
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UNITED STATES PATENT OFFICE.

JULIUS J. DUNN, OF DENVER, COLORADO.

FASTENING DEVICE.

1,031,431.

Specification of Letters Patent.

Patented July 2, 1912.

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To all whom it may concern:

Be it known that I, JULIUS J. DUNN, a citizen of the United States, residing at Denver, in the county of Denver and State of Colorado, have invented new and useful Improvements in Fastening Devices, of which the following is a specification.

An object of the invention is to provide a device for retaining connectible articles in connected and rigid position, the device being particularly adaptable for use in connection with metallic structures such as window casings and the like where bolting or riveting is difficult to accomplish.

For the purpose mentioned use is made of an integral piece of ribbon-shaped material, looped to form a main shank with the ends of the loop bent rearwardly upon the shank and then extending laterally outward from the shank for connection with a supporting plate, the ends of the outwardly bent portions being flanged to rigidly engage the plate with the shank extended through an opening in the plate.

Reference is to be had to the accompanying drawings constituting a part of this specification, in which similar characters of reference denote corresponding parts in all the views and in which—

Figure 1 is a perspective view of my fastening device. Fig. 2 is a side elevation of my device, showing the same applied for connecting a plurality of structures, the device being in initial position and the structures being shown in section. Fig. 3 is a view similar to Fig. 2 but showing my device in final position to retain the structures in rigid engagement. Fig. 4 is a side elevation of a modified form of my device showing the same applied to a plurality of structures for retaining the same in rigid engagement.

Referring more particularly to the views, I provide a single strip of material 10 bent to form a loop 11, having a head 12 and ends 13, the said strip of material 10 being then bent rearwardly at the ends 13 of the loop 11, to form portions 14 to lie upon the outer sides of the loop 11, the ends of the portions 14 being arranged to extend toward the head 12 and within a short distance of the head. The ends of the strip 10, at the ends of the portions 14 are now bent to extend laterally outward from the loop 11 to form flanges 15 and the ends 13 of the loop 11 and the portions 14 are now passed through an aperture 16 in a supporting

plate 17, so that the upper side of the supporting plate will be engaged by the under sides of the flanges 15, the ends 18 of the flanges 15 being then bent around the edge of the plate 17, to engage the under side of the plate as shown in Figs. 2 and 3. As shown in Figs. 1 and 2, it will be seen that the head 12 of the loop 11 extends upwardly a distance beyond the supporting plate 17, while the lower ends 13 of the loop 11 extend downwardly a distance beyond the plate 17, the inner sides of the portions 14 being arranged to lie on the outer sides of the loop 11.

When it is desired to secure a bracket 19 to a base 20, the ends 13 of the loop 11 and the portions 14 are passed through registering openings in the bracket 19 and base 20 so that the ends 18 of the flanges 15 will lie against the upper side of the bracket 19. A hammer is now applied to the head 12 of the loop 11 to force the same downwardly and in doing so the portions 14 will be bent outwardly and the lower ends 13 of the loop 11 will be bent laterally to the loop when the head 12 reaches a position in horizontal alinement with the flanges 15 as shown in Fig. 3. Thus, it will be seen that the ends 13 of the loop 11 and the portions 14, bent outwardly by the force applied to the head 12 will retain the bracket 19 in rigid engagement with the base 20.

In Fig. 4 I disclose a modified form of my device and in which I provide a series of serrations 21 on the outer sides of the portions 14, the said serrations being adapted to grip the base 20 when the head 12 is hammered downwardly to force the lower portions of my device outwardly as shown in Fig. 4.

By providing the plate 17, a supporting surface is formed for engagement with the upper side of the bracket 19 and when a downward pressure is applied to the head 12 of the loop 11, that portion of the bracket 19, covered by the plate 17 will be prevented from bending or giving with the pressure applied to the head 12 as will be readily understood.

Having thus fully described the invention, what I claim as new, is:—

1. In combination with a supporting plate, a single strip of material bent to form a loop having a head, the said strip being then bent rearwardly at the ends of the loop to form portions extending toward the head

thereof, the ends of the said loop and the said portions being then passed through an aperture in the said plate so that the ends of the loop will extend a distance beyond one side of the plate and the head of the loop will extend a distance beyond the other side of the plate, the said portions being then bent to form outwardly extending flanges for engagement with the upper side of the plate with the ends of the said flanges bent around the edge of the plate to engage the under side thereof.

2. In combination with a supporting plate, a strip of material bent to form a loop extended through an aperture in the said plate with the head of the loop extending a distance beyond one side of the plate

and the ends of the loop extending a distance beyond the other side of the plate, the said strip being then bent rearwardly upon the loop and then bent laterally outward from the loop to form flanges engaging the said supporting plate to rigidly retain the supporting plate in engagement with the said strip and serrations being formed on the portions of the said strip that are bent rearwardly upon the said loop.

In testimony whereof I affix my signature in presence of two witnesses.

JULIUS J. DUNN.

Witnesses:

D. F. RANKIN,
H. L. VISSER.