Jan. 9, 1934. C. L. KNUTSON 1,943,261

CONDUIT HOLDING DEVICE

Filed Dec. 10, 1931

Fig. 1.

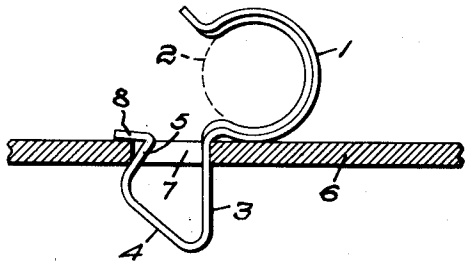
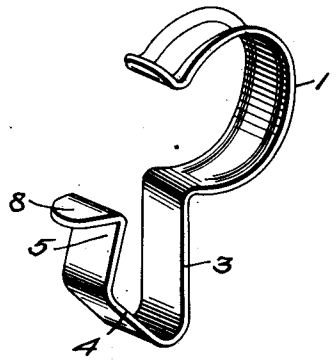


Fig. 2.



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CONDUIT-HOLDING DEVICE

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Serial No. 580,087

3 Claims. (Cl. 24—73)

My invention aims to provide improvements in snap fastener secured conduit-holding devices.

In the drawing which illustrates a preferred embodiment of my invention:—

Figure 1 is a section through an installation showing one embodiment of my invention and the use thereof, the device being shown in side elevation; and

Fig. 2 is a perspective view of my improved device selected for illustration.

Referring now to the particular embodiment of my invention illustrated by the drawing, I have shown a device preferably formed from a single narrow strip of yieldable sheet metal and when considered as a unit has two arms of different lengths joined together at one end of the device and adapted to be quickly and easily installed to hold in place various types of conduits such as gasoline pipes, air pipes, electric wires, etc. One use of my improved device is as shown in Figure 1. In that figure the device is shown attached to an apertured structure and the conduit is shown in dotted lines.

It should be understood that the device may be formed from any suitable material coming within the scope of the annexed claims.

The particular device shown is preferably made by bending and forming the narrow strip to provide a loop 1 which is curved in side elevation to provide substantially U-shaped means for receiving one or more conduits 2 (shown in dotted lines) as best shown in Figure 1. The strip is also bent to provide a substantially V-shaped socket-engaging means having one side 3 connected at the open end of the V to one leg of the loop portion 1. The other side 4 of the V has a hook-like portion 5 formed adjacent to its free end to provide means for cooperative engagement with the supporting structure 6 (Figure 1) to hold the device in a desired position. This hook-like portion 5 provides a resistance against accidental withdrawal of the V-shaped portion from the aperture 7 in the structure 6. It also has the tab-like end 8 bearing against the structure 6 to prevent tipping of the device relative to the structure when attached. The tab 8 is also useful in connection with pulling the device free from the supporting structure 6.

The conduit-holding portion 1 is shaped to permit entrance and withdrawal of the conduit 2 (shown in dotted lines in Figure 1) before or after the device is attached and, therefore, permits removal of the conduit without unnecessarily removing this fastening device.

The device which I have illustrated and described is simple in construction, relatively inexpensive to manufacture and decidedly advantageous to manufacturers, contractors and repairmen.

While I have illustrated and described a preferred embodiment of my invention, I do not wish to be limited thereby, because the scope of my invention is best defined by the following claims.

I claim:

1. A snap fastener device of the class described formed from a single narrow strip of sheet metal of uniform width, conduit-engaging means provided by bends in said strip, substantially V-shaped socket-engaging means provided by other bends in said strip and a hook portion formed adjacent to the end of one of the sides of said socket-engaging means for engagement with a supporting structure to hold the fastener device in snap fastened engagement with the supporting structure.

2. A one-piece snap fastener device for holding conduits comprising a conduit-engaging portion 1, a yieldable socket-engaging means substantially V-shaped in cross-section and having arms 3 and 4, a tab-like portion 8 at the free end of the arm 4 of the socket-engaging means and a hook portion 5 formed by the tab-like portion 8 and a bend in the arm 4 for engagement with a supporting structure adjacent to an aperture therethrough to hold the snap fastener device in engagement with the supporting structure.

3. A spring fastener comprising two arms of different length connected together at one end thereof, the shorter arm having shoulders for engaging a support, and the longer arm being bent to engage an article.

CARL L. KNUTSON.