Sept. 7, 1937. C. D. CASH 2,092,370

FASTENER DEVICE FOR RADIATOR COVERS AND THE LIKE

Filed Aug. 29, 1936

Fig. 1.

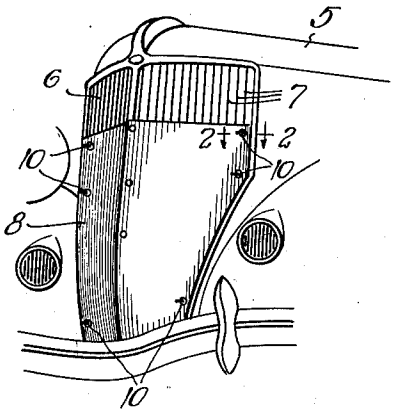


Fig. 4.

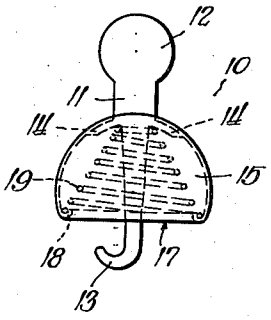


Fig. 2.

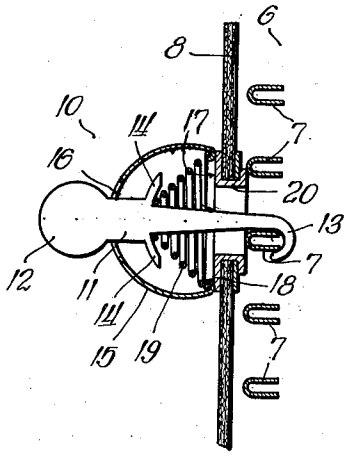


Fig. 3.

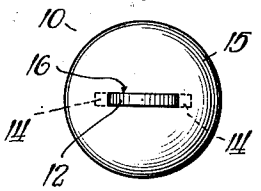
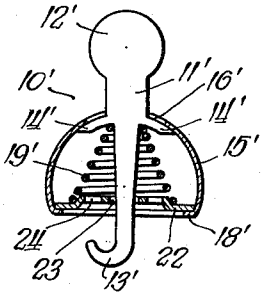


Fig. 5.



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FASTENER DEVICE FOR RADIATOR COVERS AND THE LIKE

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Application August 29, 1936, Serial No. 98,532

6 Claims. (Cl. 24—255)

This invention relates to a fastener device for radiator covers and the like.

While the invention has to do particularly with a fastener device for flexible radiator covers such as are usually made of fabric, it is to be understood that it is not limited to such use but may be employed for fastening radiator bug screens in place and elsewhere as suitable and desired.

One of the main objects of my invention is to provide a fastener device which is adapted for fastening the radiator cover or the like in place effectively and expeditiously.

It is also an object of my invention to provide a fastener device of improved construction which may be applied and removed conveniently; also a fastener device of pleasing appearance, particularly when applied to hold the radiator cover or the like in place.

Further objects and advantages of my invention will be apparent from the following detailed description, taken in connection with the accompanying drawing, in which:

Figure 1 is a fragmentary perspective view of the front of an automobile, showing a radiator cover fastened in place over the radiator grill with fastener devices embodying the present invention;

Figure 2 is a detail section through one of the fastener devices and the adjacent portion of the radiator cover and grill on a slightly enlarged scale and taken on the line 2—2 of Figure 1;

Figure 3 is an outer end view of the fastener device;

Figure 4 is a side elevational view of the same; and

Figure 5 is a section similar to Figure 2 through a slightly modified form of fastener device embodying the present invention.

Referring to the drawing, the hood of the automobile, shown fragmentarily at 5, is provided at its forward end with a radiator grill 6 comprising in the illustrated embodiment of the invention radiator grill bars 7 spaced forwardly of the automobile radiator (not shown).

The radiator cover shown at 8 is the usual flexible radiator cover commonly made of suitable fabric material and shaped for application over the front of the grill 6, as shown. The radiator cover 8 is secured in place over the front of the grill 6 by the fastener devices 10, and usually such a cover is adapted to be folded down from the top and up from the bottom and secured in folded position to expose more of the radiator where the temperature is not sufficiently low to make it desirable to cover the radiator to the extent shown.

The fastener device 10 comprises a fastener stud 11 which may be punched or otherwise formed from flat metal stock. This stud 11 is provided at its outer end with an integral head 12, and is provided at its inner end with an integral hook 13. Intermediate its ends the stud 11 is provided with integral abutment means 14 which is preferably of curved form to seat against the outer end of the generally semi-cylindrical or half round enclosure piece 15.

The enclosure piece 15 is provided at its outer end with a slot 16 through which the head 12 is passed—for example, from the inner open end 17 of the enclosure piece in assembling the parts of the device. The periphery of the open end of the enclosure piece 15 is provided with a flange 18, and a coiled spring 19, preferably of conical form for stability, surrounds the stud 11 and is interposed between the yoke 14 on the stud and the flange 18 on the enclosure piece 15 with its smaller end seated against the yoke 14 and its larger end seated against the flange 18.

The radiator cover 8, which is preferably provided with suitable eyelets 20, is applied by placing it over the grill 6, for example as shown in Figure 1. The fastener device 10 is then placed against the outer side of the cover 8 adjacent the eyelet 20, and by applying the finger or hand to the head 12 the stud 11 is pressed inwardly against the tension of the spring 19 to project the hooked end 13 through the grill 6 and into hooked engagement with one of the grill bars 7, as shown in Figure 2. The spring 19 and the part of the stud with the abutment means 14 are enclosed by the enclosure piece 15, and a finished appearance is thereby presented.

The fastener device is released by pressing slightly on the head 12 to release the hooked end 13 of the stud 11 from engagement with the grill bar 7, whereupon the fastener device may be removed to permit removal or folding of the cover 8. The spring 19 normally holds the abutment means 14 seated against the outer end of the enclosure piece 15.

The embodiment of the invention shown in Figure 5 is similar to the preceding embodiment of the invention except that the large open end of the enclosure piece 15′ is provided with a base piece 22. This base piece 22 seats against the flange 18′ at the large open end of the closure piece 15′, and the conical coiled spring 19′ is interposed between the abutment means 14′ on the stud 11′ and the base piece 22. The base piece may be upset centrally to fit within and position the large end of the spring 19′ as shown,

and it has a central opening **23** for the passage therethrough of the hooked end **13'** of the stud **11'**. The base piece **22** is preferably of spider-like form, as shown at **24**.

I do not intend to be limited to the precise details shown or described.

I claim:

1. A fastener device of the class described comprising a fastener stud, a hook at the inner end of said stud, abutment means on said stud intermediate its ends, an enclosure member enclosing the portion of said stud provided with said abutment means and having an open end provided with a flange, and a spring disposed within said enclosure member and confined between the abutment means on said stud and the flange at the inner end of the enclosure member.

2. A fastener device of the class described comprising a fastener stud, a hook at the inner end of said stud, abutment means on said stud intermediate its ends, an enclosure member enclosing the portion of said stud provided with said abutment means and having an open end provided with a flange, and a spring disposed within said enclosure member and confined between the abutment means on said stud and the flange at the inner end of the enclosure member, said spring normally seating the abutment means on said stud against the outer end of the enclosure member and of generally conical form with its small end seated against the abutment means on the stud and its large end seated against the flange on said enclosure member.

3. A fastener device of the class described comprising a fastener stud, a head at the outer end of said stud, a hook at the inner end of said stud, abutment means on said stud intermediate its ends, a generally half round enclosure member having a slot at its outer end through which the head on said stud projects and having its inner end open and provided with a flange, the abutment means on said stud being of a curvature substantially conforming with the curvature of the outer end of said enclosure member, and a spring disposed within said enclosure member and confined between the abutment means on said stud and the flange at the inner end of the enclosure member, said spring normally seating the abutment means on said stud against the outer end of the enclosure member and of generally conical form with its small end seated against the abutment means on the stud and its large end seated against the flange on said enclosure member.

4. A fastener device of the class described comprising a fastener stud formed of flat stock with an integral head at its outer end, an integral hook at its inner end, and integral abutment means intermediate its ends, a generally half round enclosure member having a slot at its outer end through which the head on said stud projects and having its inner end open and provided with a flange, said enclosure member enclosing the portion of the stud provided with said abutment means, the abutment means on said stud being of a curvature substantially conforming with the curvature of the outer end of said enclosure member, and a spring disposed within said enclosure member and confined between the abutment means on the stud and the flange at the inner end of the enclosure member, said spring normally seating the abutment means on the stud against the outer end of the enclosure member and of generally conical form with its small end seated against the abutment means on the stud and its large end seated against the flange on the enclosure member.

5. A fastener device of the class described comprising a fastener member having a hook in proximity to its inner end and a finger-piece in proximity to its outer end, an enclosure member enclosing the intermediate portion of said fastener member, first abutment means on said fastener member intermediate its ends, second abutment means in proximity to the inner end of said enclosure member, and spring means disposed within said enclosure member and confined between said first and second abutment means, said spring means tending yieldingly to retract the hook in proximity to the inner end of said fastener member when said fastener member is projected inwardly against the tension of said spring means.

6. A fastener device of the class described comprising a fastener stud, a head at the outer end of said stud, a hook at the inner end of said stud, abutment means on said stud intermediate its ends, an enclosure member enclosing the portion of said stud provided with said abutment means and provided with a slot at its outer end through which the head on said stud projects, said enclosure member having an open inner end provided with a flange, a base member disposed within said enclosure member and seated against the flange at the inner end of said enclosure member, said base member having an opening through which the hooked end of said stud projects, and a spring coiled about the stud within said enclosure member and confined between the abutment means on said stud and the flange at the inner end of the enclosure member.

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