

July 18, 1939.

E. OETTEL

2,166,533

SUSPENSION DEVICE

Filed Nov. 2, 1937

Fig. 1.

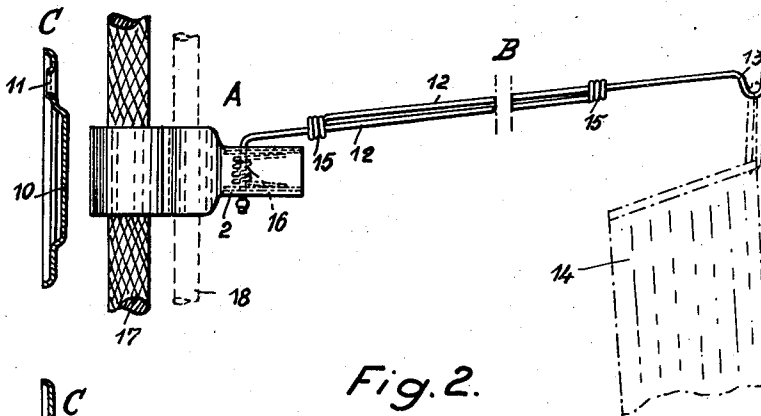


Fig. 2.

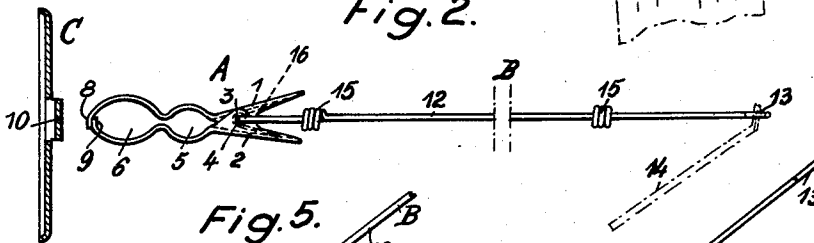


Fig. 5.

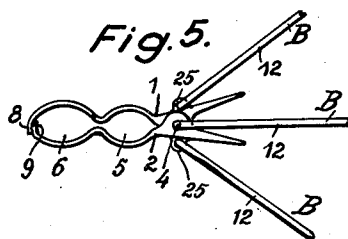


Fig. 3.

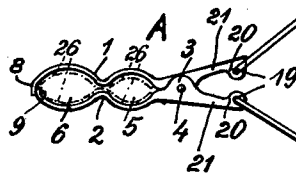
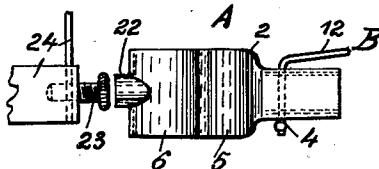


Fig. 4.



Inventor:

E. Oettel

UNITED STATES PATENT OFFICE

2,166,533

SUSPENSION DEVICE

Erwin Oettel, Zeitz, Germany

Application November 2, 1937, Serial No. 172,370
In Germany April 30, 1937

4 Claims. (Cl. 248—289)

This invention relates to a suspension means for articles of light weight, such as flypapers, flashlight cartridges, pictures or decorations of all kinds.

By means of a suspension device according to the invention articles such as those referred to may be secured at any desired point of a room, either directly or indirectly, for example to frames, the cables of lamp weights, single nails in the wall, screws or the like.

The essential feature of the invention consists in the fact that a spring clip furnished with a plurality of clamping points possesses one or more arms, which if desired may be extensible, and on the ends of which there may be suspended the articles in question.

The single clamping points may be of different size and of different form. The arms mounted so as to be movable on the spring clip can be readily moved into any desired position by bending.

Certain embodiments of the suspension means according to the invention are illustrated in the accompanying drawing, in which—

Fig. 1 is an elevational view of one embodiment of the suspension means, showing to the left thereof in longitudinal section a special attachment plate.

Fig. 2 is a plan view of the embodiment illustrated in Fig. 1.

Fig. 3 is a plan view of a suspension device having a plurality of arms.

Fig. 4 is an elevational view of a spring clip furnished with a special clamping device, and

Fig. 5 is a plan view of a suspension means having three arms.

The spring clip comprises the two members 1 and 2, which are hinged together at the eyes 3 by means of a pin 4. The front portions of the clip form together a narrow clip bulge 5 and a wider bulge 6. At the front end of the larger bulge there are provided hooks 8 and 9, which preferably engage one over the other (Fig. 2) and have the object of permitting the clip to be secured to flat rails or to the special attachment plate C. The attachment plate possesses a raised ledge 10 and one or more holes 11 adapted to be engaged by nails or screws.

In Figs. 1 and 2 the pin 4 is extended to form a wire arm 12 having at its outer end the hook 13 for suspension of the article 14, or it may consist of two parts which are shiftable one along the other by means of eyes 15 for the purpose of adjustment of its length.

The clip members 1 and 2 are held in the closed

position by a spring 16. By means of the wider bulge 6 the clip may be applied to a thick electric cable 17, a gas pipe or the like and by means of the smaller bulge 5 to a thin electric cable 18. If there is a nail in the wall, the attachment plate C is suspended thereon and the hooks 8 and 9 are then clipped to the raised ledge 10.

In the present case the wire arm 12 also forms the hinge pin 4 of the clip A. If it is desired to apply a plurality of arms to the clip 1, 2, the arms are pivoted by means of a special pin in eyes 20 on the rear portion 21 of the clip. In this case the arms 12 may also consist of two parts, as illustrated in Figs. 1 and 2, for the purpose of being able to vary their length.

According to Fig. 5, the clip is furnished with three arms 12. The hinge pin 4, as in Fig. 1, is constructed as suspension arm B. On each member 1 and 2 of the clip there is provided near the pin 4 an eye 25, and in each of these eyes there is mounted so as to be capable of swinging movement an arm B. These arms may also be made to be adjustable in length.

In the event of two suspension arms B being provided, the pivot points of these may also be located near the pin 4 in order not to interfere with the manipulation of the clip A.

To enable the clip 1 to be secured to horizontally disposed nails or screws without the aid of the attachment plate C the same may be furnished with a special clamping portion 22. This clamping portion 22 consists of two horizontally disposed recesses in the members 1 and 2, which can be fitted, for example, over the screw 23 of the shade holder 24 of a lamp (not shown).

To prevent damage to the pipes or cables or to the article by the attachment of the clip A the inner faces of the clamping points 5, 6 and 22 may be furnished with a soft pad 26, as indicated in dash-dotted lines in Fig. 3.

The clip can be made of metal, synthetic resin or any other suitable substance.

As shown in the drawing, the clip can be applied to upright articles. It can, however, also be secured to horizontally or obliquely disposed articles, in which case the wire arm or arms must be adjusted accordingly.

What I claim as new and desire to secure by Letters Patent is:

1. In a suspension device for articles of light weight for suspending them at a certain minimum distance from fixed objects, a resilient clip operable about a vertical axis for attachment to the fixed object and having clamping openings of different size, and at least one cantilever sup-

porting means for the articles mounted on the said clip.

2. In a suspension device for articles of light weight for suspending them at a certain minimum distance from fixed objects, a resilient clip operable about a vertical axis for attachment to the fixed object and having clamping openings of different size, hook-like clamping members at the end of the said clip, and at least one cantilever supporting means for the articles mounted on the said clip.

3. In a suspension device for articles of light weight for suspending them at a certain minimum distance from fixed objects, a resilient clip operable about a vertical axis for attachment to the

fixed object and having clamping openings of different size, and at least one cantilever supporting means for the articles mounted on the said clip, the said cantilever supporting means being bent substantially at right angles at its inner end to form the hinge pin of the clip.

4. In a suspension device for articles of light weight for suspending them at a certain minimum distance from fixed objects, a resilient clip operable about a vertical axis for attachment to the fixed object and having clamping openings of different size, and at least one multi-part extensible cantilever supporting means for the articles mounted on the said clip.

ERWIN OETTEL. 15