Jan. 9, 1962 V. B. HALL 3,016,224

ADHESIVE DISC AND CLASP FOR KEYS AND THE LIKE

Filed Aug. 5, 1960

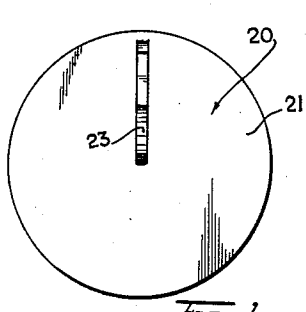


Fig. 1.

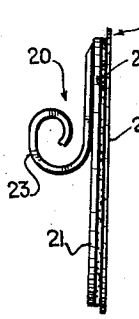


Fig. 2.

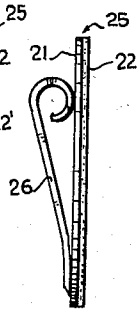


Fig. 3.

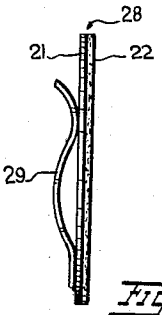


Fig. 4.

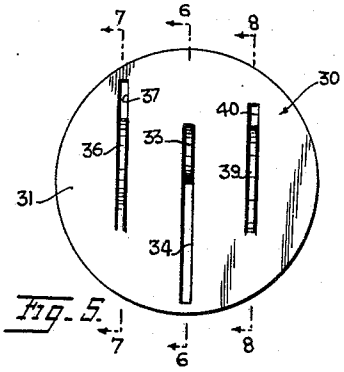


Fig. 5.

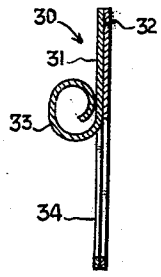


Fig. 6.

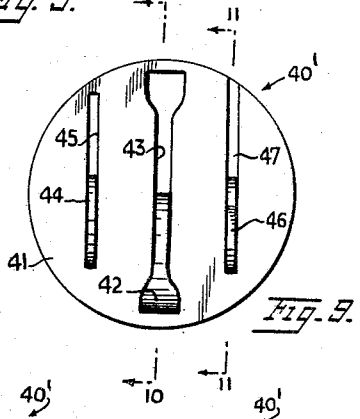


Fig. 9.

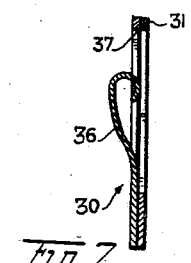


Fig. 7.

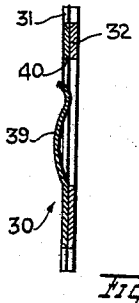


Fig. 8.

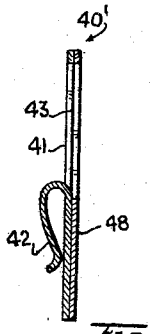


Fig. 10.

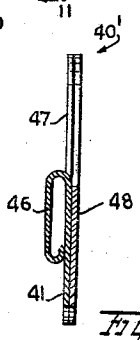


Fig. 11.

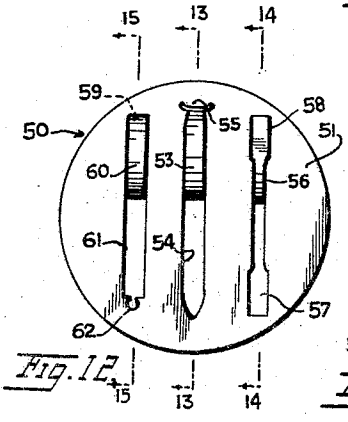


Fig. 12.

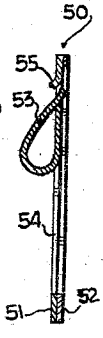


Fig. 13.

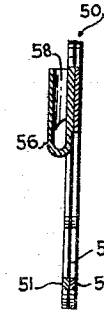


Fig. 14.

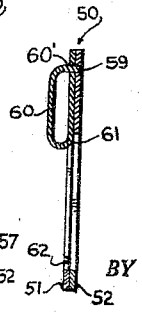


Fig. 15.

INVENTOR.
VIOLA B. HALL
BY
Zoltan Polachek
ATTORNEY

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# ADHESIVE DISC AND CLASP FOR KEYS AND THE LIKE

Viola B. Hall, New York, N.Y.
(214 St. Paul St., Westfield, N.J.)

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2 Claims. (Cl. 248—205)

This invention relates generally to fastening means and specifically to hangers or clasps adapted to be fixed or secured to flexible surfaces.

It has been found that hangers and the like that are fixed to a flexible surface by an adhesive tend to pull away when the surface is flexed if the hanger has a substantially rigid base portion. Hangers presently in use having flexible bases that are adhesively connected to a flexible surface are generally bulky and of staid design because of common manufacturing methods.

Accordingly, an object of this invention is to provide a hanger or the like adapted to be adhesively connected to a flexible surface.

Another object of this invention is to provide an all resilient hanger adapted to be adhesively connected to a resilient surface.

Another object of this invention is to provide the aforementioned hanger having a plurality of retaining members.

Another object of this invention is to provide the aforementioned hanger of unitary construction.

Still another object is to provide the aforementioned hanger in which each of the retaining members are of a form diverse from the others.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawings forming a material part of this disclosure:

FIG. 1 is a plan view of a hanger constructed according to the invention in which the retaining member is adhesively fixed to the base.

FIG. 2 is a side elevation of the hanger of FIG. 1.

FIGS. 3 and 4 are side elevations similar to FIG. 2 illustrating modifications of the hanger of FIG. 1.

FIGS. 5, 9 and 12 are plan views of three hangers constructed according to the invention and being of unitary construction.

FIGS. 6, 7 and 8 are sectional views taken on lines **6—6**, **7—7** and **8—8**, respectively, of FIG. 5.

FIGS. 10 and 11 are sectional views taken on lines **10—10** and **11—11**, respectively, of FIG. 9.

FIGS. 13, 14 and 15 are sectional views taken on lines **13—13**, **14—14** and **15—15**, respectively, of FIG. 12.

Referring now to FIGS. 1 and 2, a hanger unit **20** has a resilient base **21** preferably of plastic material and of circular form, with a layer of adhesive **22** applied to the back thereof. The resiliency of the base **21** provides characteristics to allow the base to follow deformations of a resilient supporting surface (not shown) to which the hanger **20** is connected by the adhesive **22**. A retaining member **23** is fixed to the base **20** at its upper portion with a cement or a plastic solvent. The lower free portion of the member **23** is rolled back over the fixed portion to provide a hook for hanging objects.

The adhesive layer **22** is normally covered by a protecting sheet **22'** which is removed when the hanger device is to be applied to the inner surface of a lady's handbag or other article.

The modified hanger unit **25** of FIG. 3 provides a retaining member **26** having its lower portion fixed to the flexible base **21**. The upper free portion of member **26** is rolled toward the base **21** and abuts it, thus providing a clamp. The crotch formed between the member **26** and the base **21** will retain small hanging articles such as a key chain while objects such as papers or gloves will be clamped between the rolled end of member **26** and the base **21**.



The modified hanger unit **28** of FIG. 4 is similar to hanger unit **25** of FIG. 3 but has a retaining member **29** whose free end is convoluted. Although hanger units **20**, **25** and **28** include only one retaining member each, more than one retaining member may be used similar to the hanger units **30**, **40** and **50** of FIGS. 5, 9 and 12, respectively. Three retaining members are shown in FIGS. 5, 9 and 12 to provide sufficient means for illustrating all the forms of retaining members included in the invention. It is not intended to limit the invention to hangers having only one or three retaining members, but rather to show that a hanger unit may be made according to the invention having one or a plurality of retaining members.

Referring now to FIGS. 5, 6, 7 and 8, the hanger unit **30** is of unitary construction having a resilient base **31** with three tongues **33**, **36** and **39** cut therefrom leaving slots **34**, **37** and **40** therein. Adhesive **32** is applied to the back of the base **31** but does not cover the slots nor the tongues which are the retaining members. As may be clearly seen in FIGS. 6, 7 and 8, the retaining members **33**, **36** and **39** correspond in form to members **23**, **26** and **29** of FIGS. 1 through 4.

The hanger unit **40'** of FIGS. 9, 10 and 11 provides a showing of modified retaining members **42**, **44** and **46** which are cut from the base **41** leaving slots **43**, **45** and **47**, respectively. The retaining **42** is of similar form as the member **39** of FIGS. 5 and 8 except that it is folded back over an uncut portion of the base **41** and has a flared end portion to provide an enlarged bearing surface to increase its retaining capabilities and protect the article being held. The retaining members **44** and **46** are of the same form as each other, and are folded over an uncut portion of the base **41** having their free ends rolled toward the base. The hanger unit **40'** also utilizes an adhesive **48** which is applied over the uncut and nondisplaced portions of the base **41**. It should be noted that slots **45** and **47** resulting from utilizing the displaced material for members **44** and **46** differ from one another in that the four sides of slot **45** are closed while slot **47** extends through the peripheral edge of the base **41**.

Referring to FIGS. 12, 13, 14 and 15, a further modified hanger unit **50** is shown having retaining members **53**, **56** and **60** leaving slots **54**, **57** and **61**, respectively. A small tongue **55** is cut diametrically opposite from the free end of member **53** providing a slot. The member **53** is folded back from the slot **54** and the tip is inserted under the tongue **55**. A slot **59** is cut in the base **51** spaced from the fixed end of the member **60**. The free end of member **60** has a snap tongue **60'** formed of a shape coinciding with the recess **62** in end wall of slot **61**. The member **60** is looped back and locked by inserting the terminal tongue **60'** into the slot **59**. The member **56** is formed with a flared free end and is folded over the uncut portion of base **51**. The flared portions of the end of the member **56** is folded toward the base **51** to form catch legs **58** as shown in FIG. 14, adapted to bear on the base.

In various instances the retaining members are connected to or are continuous with the base at the bottom with the slot at the top. In other instances, this construction is reversed. The actual location of the opening is immaterial to the invention, and discretion must be used to determine its optimum operating location according to the material to be held. A device of this

type is particularly adapted for use in women's handbags for hanging keys and gloves, etc., to be releasably retained therein.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise constructions herein disclosed and that various changes and modifications may be made within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new, and desire to secure by United States Letters Patent is:

1. A unitary hanger unit to be adhesively connected to a flexible surface having a resilient base adapted to be displaced in unison with said surface and to remain fixed thereto, and at least one tongue-like retaining member out-struck from said base and having a form adapted to receive and retain an article to be held, the retaining member being folded over the uncut portion of the base and having a convoluted form a flared portion on said member spaced from the free tip thereof abutting said base, the flared portion being folded to a U-form with the formed legs thereof bearing against the base.

2. A unitary hanger unit to be adhesively connected to a flexible surface having a resilient base adapted to be displaced in unison with said surface and to remain fixed thereto, and at least one tongue-like retaining member outstruck from said base and having a form adapted to receive and retain an article to be held, the retaining member being folded over the solid portion of the base and having a convoluted form and a flared portion on said member spaced from the free tip thereof abutting said base, the flared portion being folded to a U-form with the formed legs thereof bearing against the base, said retaining member, legs and base forming a socket open at the top to receive an article.



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