Sept. 4, 1962 J. M. MARGULIS 3,052,436

PICTURE HANGER WITH TRANSPARENT FLAPS

Filed July 21, 1960

FIG. 1

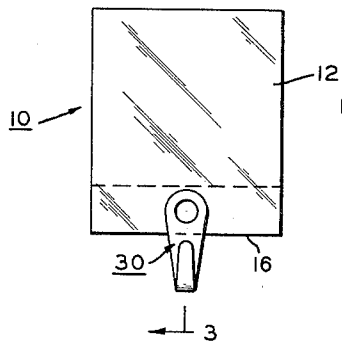


FIG. 2

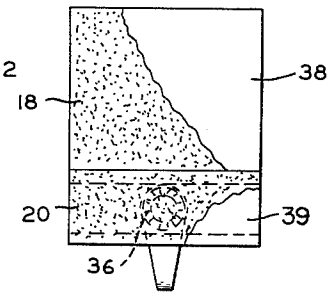


FIG. 3

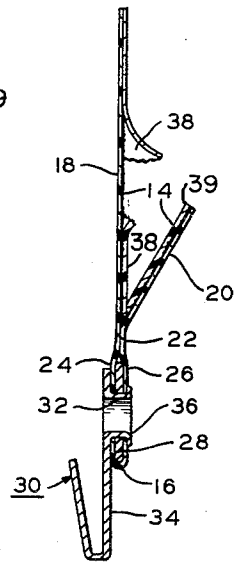


FIG. 4

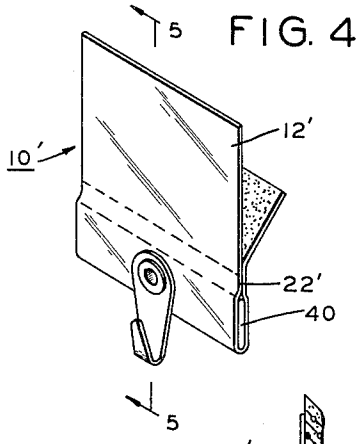


FIG. 5

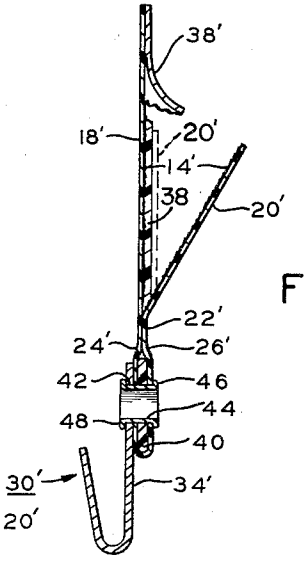
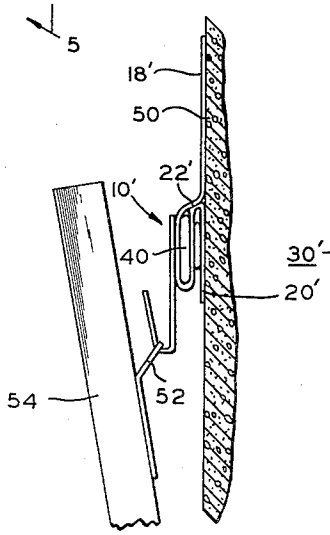


FIG. 6



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PICTURE HANGER WITH TRANSPARENT FLAPS

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This invention relates in general to a wall hanger, and more specifically to a nail-less hanger for pictures and the like capable of being secured to the surface of a wall without marring said surface or penetrating it.

In order to hang objects such as pictures, ceramics, maps, etc. usually a solid type of fastener such as a nail or wire hook is employed to secure the object on a wall. The use of such nails or wire hooks were substantially obviated by the nail-less hanger for pictures set forth in my prior Patents 2,647,711 and 2,809,001. The nail-less hangers in said patents have the advantage of being capable of quick application to any surface wherever needed and leave no tell-tale cracks, breaks or marks upon the wall.

The present invention is an improvement over the nail-less hangers in said patents. The nail-less hangers in said patents have eminently achieved their purpose and have been commercially successful. The present invention improves the nail-less hangers in said patents by providing flaps of transparent synthetic resin having a pressure sensitive adhesive on the rear surfaces thereof. The provision of transparent flaps on the nail-less hanger enables the color of the walls to tbe transmitted through the flaps, therefore the flaps are less noticeable. The provision of a pressure sensitive adhesive on the rear surface of the flaps enables the nail-less hanger of the present invention to be reusable and also enables the flaps to be applied to a wall or the like more readily.

It is an object of the present invention to provide a nail-less hanger supporting device having transparent flaps.

It is another object of the present invention to provide a nail-less hanger supporting device having transparent flaps and a pressure sensitive adhesive on the rear surface of said flaps.

It is another object of the present invention to provide a nail-less wall hanger supporting device capable of being reused.

It is still another object of the present invention to provide a nail-less wall hanger supporting device which is simple and easy to manufacture at a sufficiently low cost so that it will be readily acceptable to the buying public.

It is a further object of the present invention to provide a wall hanger supporting device which is capable of being readily applied to any surface and removed therefrom without injuring said surface.

Other objects will appear hereinafter.

For the purpose of illustrating the invention there is shown in the drawings forms which are presently preferred; it being understood, however, that this invention is not limited to the precise arrangements and instrumentalities shown.

FIGURE 1 is a front elevational view of the hanger support of the present invention.

FIGURE 2 is a rear elevational view of the hanger support of the present invention.

FIGURE 3 is a sectional view taken along the line 3—3 in FIGURE 1.

FIGURE 4 is a perspective view of another embodiment of the present invention.

FIGURE 5 is a sectional view taken along the lines 5—5 in FIGURE 4.

FIGURE 6 is a side elevational view of the embodiment shown in FIGURE 4 positioned on a supporting surface or wall.

Referring to the drawing in detail, wherein like numerals indicate elements, there is shown in FIGURE 1 a

nail-less wall hanger supporting device designated generally as **10**.

The supporting device **10** comprises a strip **12** of a transparent synthetic material, such as mylar, vinyl plastic, cellophane, etc. The strip **12** is provided on its rear surface with a layer of pressure sensitive adhesive **14**. The strip **12** is folded under or overlapped upon itself along a transverse fold line **16** disposed intermediate its ends to form a front flap **18** and a rear flap **20**. The front flap **18** and the rear flap **20** extend upwardly and outwardly from a seam **22** formed by the application of pressure to the pressure sensitive adhesive **14** on the juxtaposed surfaces of the strip **12**.

The provision of the seam **22** results in a hem in the strip **12** having hem elements **24** and **26** extending from the seam **22** to the fold line **16**. A support bar **28**, preferably made from a metal such as steel, is secured or positioned within the hem with its bottom edge juxtaposed to the fold line **16**. The support bar **28** may be held or secured within the hem by the seam **22** and the pressure sensitive adhesive **14** on the hem elements **24** and **26**.

A hook **30**, which may be made of metal or the like, is pivotally secured upon the support bar **28** by a tubular flange **32** which extends through a hole in the support bar. The hem elements **24** and **26** are each provided with a hole in alignment with the hole in the support bar **28**. One end of the flange **32** is integral with the shank portion **34** on the hook **30** and the other end **36** on the flange **32** is flared outwardly and swaged so that the support bar **28**, the hem element **24** and the hem element **26** are disposed between the shank portion **34** and the swaged end **36**. In order that the end **36** on the flange **32** may be swaged so as to maintain the hanger support device **10** in assembled relationship, the tubular flange **32** is provided with a relatively thin cross-section as compared with the shank portion **34**. The outer diameter of the tubular flange **32** is smaller than the diameter of the holes in the hem elements **24** and **26** and the support bar **28**, and the swaged portion **36** does not engage the hem element **26** so tightly so as to prevent pivotation of the hook **30** relative to the support bar **28**.

The front flap **18** and the rear flap **20** are preferably provided with a sheet of calendered paper **38** and **39**, respectively, in abutting contact with the pressure sensitive adhesive **14**. The sheets of calendered paper **38** and **39** are readily removable when it is desired to affix the flaps **18** and **20** to a supporting wall or the like.

FIGURES 4–6 disclose an alternative embodiment of the hanger support device of the present invention and is designated generally as **10'**. The elements of the supporting device **10'** which are identical with the corresponding elements in the support device **10** are shown with primed numerals and need not be discussed in detail. The support bar **40** has the same configuration as the support bar **28**, however the support bar **40** is preferably made from a plastic material.

A sheet of calendered paper **38'** is applied to the pressure sensitive adhesive surface **14'** on the flap **18'**. The sheet of calendered paper **38'** has a length and width corresponding with the length and width of the flap **18'**. As shown more clearly in FIGURE 5, the flap **20'** may have the phantom position illustrated wherein it is in abutting contact with a surface of the paper **28'**. The last-mentioned surface is opposite from the surface in abutting contact with the adhesive **14'** on the flap **18'**.

The shank portion **34'** is provided with a hole **42**. The hole **42** is positioned in alignment with the hole in the hem elements **24'** and **26'** and the hole in the support bar **40**. A hollow metal rivet **44** extends through the aligned holes in the shank portion **34'**, the hem element **24'**, the hem element **26'** and the support bar **40**. The ends of

the rivet 44 are provided with flared portions 46 and 48. The outer diameter of the rivet 44 is less than the diameter of the holes in the shank portion 34', the hem element 24', the hem element 26' and the support bar 40. The flared portions 46 and 48 maintain the elements in assembled relationship and enable the shank portion 34' to freely pivot relative to the support bar 40.

As shown more clearly in FIGURE 6, the nail-less hanger support device 10' is mounted on an upright wall 50. A wire 52 on a picture 54 is disposed within the bight portion of the hook 30'. It will be noted that the front flap 18' is higher than the uppermost surface of the picture 54. Therefore, when the picture 54 is viewed from a position standing in front of the picture, the front flap 18' is visible and would ordinarily contrast with the color of the wall 50. The present invention obviates this disadvantage by making the strips 12 and 12' from a transparent plastic material.

The hanger support devices 10 and 10' are used in the following manner.

The hanger support devices 10 and 10' may be put into operation very quickly and simply. The sheet of calendered paper 38 or 38' is removed from the front and rear flaps. The removal of the calendered sheet of paper exposes the layer of pressure sensitive adhesive 14 or 14'. The rear flap 20 or 20' is pivoted about the seam 22 or 22' to a position so that the rear flap is substantially in the plane of the front flap. Then the hanger support device 10 or 10' is applied to a surface of a wall or the like with a small amount of pressure being applied to the outermost surface of the flaps. The layer of pressure sensitive adhesive 14 or 14' immediately secures the hanger support device 10 or 10' to the surface of the wall or the like. Then the wire or clip on the rear surface of a picture or the like is positioned within the bight portion on the hook 30 or 30'.

If a picture or the like needs adjusting, the hook 30 or 30' may be pivoted so that the picture or the like is supported in a proper position. If the hanger support device 10 or 10' is at an improper height, it may be readily peeled off from the surface of the wall or the like and immediately repositioned wherever desired. Since the strips 12 and 12' are made from a transparent material, they are not readily observable and blend with the color of the supporting surface of the wall or the like.

Therefore, it will be seen that the present invention provides a hanger support device which is reusable and capable of being readily moved from one portion of supporting wall surface to another portion. The present invention includes a hanger support device wherein the flaps are made from a transparent plastic material and have a pressure sensitive adhesive on their rear surface. The provision of a pressure sensitive adhesive on the rear surface of the strip 12 and 12' enables a hem to be made very quickly and simply by applying pressure to the juxtaposed layers of the pressure sensitive adhesive. The layers of pressure sensitive adhesive also cooperate with

the outer peripheral surfaces of the support bars 28 and 40 so as to prevent relative movement between the support bars and the hems on the strips 12 and 12'. In addition, the provision of the pressure sensitive adhesive 14 provides for a more even distribution of the weight of the picture or the like adapted to be supported by the hanger support devices 10 and 10'.

The present invention may be embodied in other specific forms without departing from the spirit or essential attributes thereof and, accordingly, reference should be made to the appended claims, rather than to the foregoing specification as indicating the scope of the invention.

I claim:

1. A nail-less hanger comprising a flexible transparent strip coated on its entire rear face with a pressure sensitive adhesive coating, said strip being overlapped upon itself along a transverse fold line to provide a hem, said hem having first and second elements extending from said fold line, a support bar positioned within said hem, the adhesive coating on a portion of said first hem element being in abutting contact with a face of said bar, the adhesive coating on a portion of said second hem element being in abutting contact with an opposite face of said bar, the adhesive coating on first and second portions of said strip being in abutting contact across the full width of said strip thereby forming a seam, said bar being disposed between said seam and said fold line, said strip terminating in first and second flaps, a hook, means pivotably securing said hook to said support bar so that said hook may be swung in a plane closely paralleling the plane of said bar, and a selectively removable calendered sheet, one surface of said sheet being in abutting contact with the pressure sensitive adhesive coating on said first flap.

2. A hanger in accordance with claim 1 including a second calendered sheet, said second sheet being selectively and removably disposed in abutting contact with the pressure sensitive adhesive coating on said second flap.

3. A hanger in accordance with claim 1 wherein the pressure sensitive adhesive coating on said second flap is in abutting contact with an opposite surface of said sheet.

4. A nail-less hanger in accordance with claim 1 wherein said hem faces and support bar are provided with aligned holes therethrough, the shank portion of said hook being provided with a hole in alignment with holes in said hem elements and support bar, said securing means comprising a rivet extending through said hole in said shank portion of said hook, the end portions of said rivet being flared outwardly so as to maintain said hook, strip and bar in assembled relationship, and said bar being made from a synthetic resin.

References Cited in the file of this patent

UNITED STATES PATENTS

2,699,103	Stasikewich	Jan. 11, 1955
2,809,001	Margulis	Oct. 18, 1957