Jan. 17, 1967 J. M. PALM 3,298,655

PICTURE AND MIRROR HANGING HARDWARE

Filed Oct. 24, 1965

Fig. 1

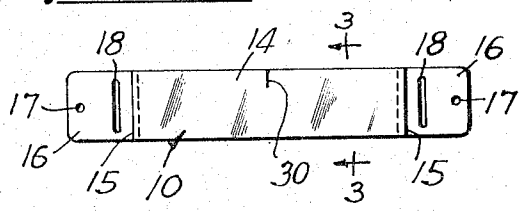


Fig. 3

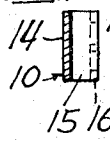


Fig 4

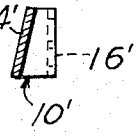


Fig. 2

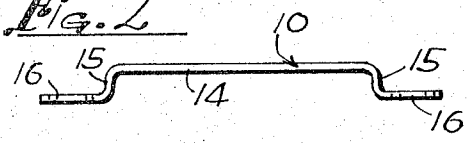


Fig. 5

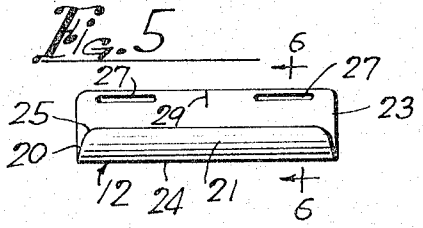


Fig. 6

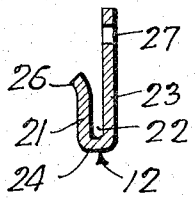


Fig. 7

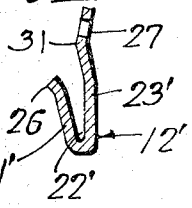
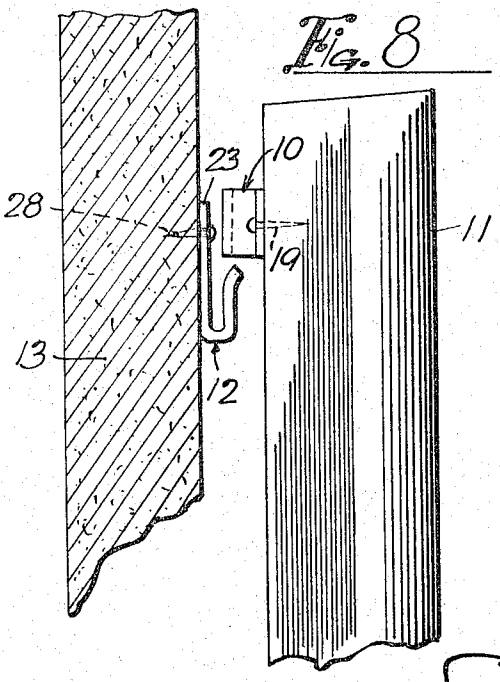


Fig. 8



INVENTOR
JAMES M. PALM

Andrew F. Wintercorn
ATTORNEY.

United States Patent Office 3,298,655 Patented Jan. 17, 1967

3,298,655

PICTURE AND MIRROR HANGING HARDWARE

James M. Palm, Winnebago, Ill., assignor to Rockford Engineered Products Co., Rockford, Ill., a corporation of Illinois

Filed Oct. 24, 1965, Ser. No. 504,333
7 Claims. (Cl. 248—498)

This invention relates to picture and mirror hanging hardware designed to simplify and speed up the hanging operation and at the same time obtain uniformly better results mainly by reason of the adjustment features afforded, which enable lateral adjustment of the mounting bracket on the wall and vertical adjustment of the hanger clip on the back of the mirror or picture, the thought being that after a picture or mirror has been hung even a quarter inch adjustment laterally can make a big difference and a similar amount of vertical adjustment is often also desirable, so the adjustment slots on both pieces of hardware are approximately of that length.

Another important feature of the invention is the elongated solid line contact afforded between the hanger clip and mounting bracket whereby to avoid the inevitable drooping that goes with the old style hangings where there is only point contact usually.

The invention is illustrated in the accompanying drawing, in which:

FIGS. 1 and 2 are a front view and bottom view of a hanger clip made in accordance with my invention showing the part approximately full size;

FIG. 3 is a section on the line 3—3 of FIG. 1;

FIG. 4 is a similar section showing a modified or alternative construction;

FIG. 5 is a front view of the mounting bracket shown approximately full size;

FIG. 6 is an enlarged cross-section on the line 6—6 of FIG. 5;

FIG. 7 is a similar section showing a modified or alternative construction, and

FIG. 8 illustrates how the hanger clip on the back of a mirror or picture designed to be applied to the mounting bracket on the wall.

Similar reference numerals are applied to corresponding parts throughout these views.

Referring to the drawing, the reference numeral **10** designates a hanger clip of my invention adapted to be secured to the back of a mirror or picture, as indicated at **11** in FIG. 8, and **12** designates a cooperating mounting bracket of my invention fastened to a wall indicated at **13** in FIG. 8. It will be noticed that the clip **10**, which is generally U-shaped, having a long narrow cross-portion **14** with relatively short legs **15** at opposite ends, from which extend at right angles the attaching pad portions or ears **16** of generally rectangular form, each provided with a small nail or screw hole **17** in the outer end portion and a vertical slot **18** inwardly spaced from the nail hole to accommodate another nail or screw of a similar small size, like that indicated at **19** in FIG. 8. This construction enables parallel adjustment of the clip up or down from a given position on the back of the picture or mirror, using a single nail or screw in each of the slots **18** for the preliminary fastening, and adding a nail or brad in each of the holes **17** later when the final setting for the clip **10** is determined.

The mounting bracket **12** is generally U-shaped in vertical cross-section and of approximately the same width from end to end as the space between the legs **15** of the clip **10**, so that the clip **10** will fit fairly closely on bracket **12** when the picture or mirror to which the clip is secured is to be hung on the bracket, as in FIG. 8, the ends **20** of the front wall **21** converging upwardly as seen in

FIG. 5 to guide the clip **10** down into the space **22** between the front and back walls **21** and **23** of the bracket. The front and back walls **21** and **23** are interconnected by a fairly short web **24** at the bottom. Rounded upper corners **25** on the opposite ends of the front wall **21** facilitate interengagement of clip **10** with bracket **12**, making the connection therebetween much smoother than it might otherwise be. The upper edge portion **26** of the front wall **21**, as seen in the enlarged section of FIG. 6 is preferably curved forwardly to further facilitate the interconnection of the clip and bracket parts, the space **22** between the front and rear walls of the mounting bracket being only slightly larger than the thickness of the cross-portion **14** of the clip **10**. The back wall **23** extends appreciably above the level of the top of the front wall **21** and is of generally rectangular form and has horizontal elongated slots **27** provided in the opposite end portions thereof at the top to receive small nails, brads, or screws as indicated at **28** in FIG. 8 for fastening the brackets to the wall while allowing lateral adjustment to a limited extent before the final setting of the bracket on the wall, the thought being, as stated before, that after a picture or mirror has been hung, even a quarter inch adjustment laterally is often desirable, slots **27** being approximately of that length with that thought in mind.

In passing, attention is called to the vertical center line mark **29** that is provided on the back wall **23** of the bracket **12**. This enables initially locating the bracket fairly accurately with respect to a bench mark made on the wall **13** at the outset. A similar vertical center line mark is shown at **30** on the clip **10** with a view to similarly locating the clip properly with respect to a bench mark made on the back of the picture or mirror **11** at the outset.

In operation, the operator, having determined fairly accurately at the outset where the picture or mirror **11** is to be hung and having made a mark on the wall **13** at the right height for the bracket **12** to be fastened, the brads, screws, or nails **28** are driven into the wall through slots **27** but are left loose purposely so that the bracket **12** can be shifted to the right or left through a range of approximately a quarter of an inch. In like manner, the clip **10** is fastened to the middle of the back of the picture or mirror **11** to be hung, using again a preliminary bench mark on the longitudinal center line of the picture at approximately the right elevation, and fastening the clip **10** by brads, screws, or nails entered in slots **18**, leaving these loose enough purposely so that one may adjust the clip up or down in a range of about a quarter of an inch to secure the desired setting before these fastenings are tightened and before other nails, brads, or screws are entered in the holes **17** for the final fastening of the clip on the picture or mirror. Thus, with my invention I can insure much better final setting of the picture or mirror because of the latitude of a quarter inch adjustment laterally and vertically that is made possible with my improved construction, the slots **17** and **18** being approximately of that length. The elongated line contact between the clip **10** and bracket **12** furthermore makes for a much more reliable hanging because there is no likelihood of drooping of the picture or mirror to one side or the other as there was inevitably with the old style wire hangings where there was only point contact of the wire on the hook. A final tap with the hammer is enough to set the clip **10** and bracket **12** firmly in their final adjusted positions. When a picture or mirror is removed for cleaning or when decorating and is rehung, the present hardware insures exact location and positioning as when hung originally.

The modified form of clip **10'** shown in FIG. 4 has the cross-portion **14'** in downwardly diverging relationship to the vertical plane of the attaching ears **16'** to co-

incide with the forward inclination of the front wall **21'** on the mounting bracket **12'** shown in FIG. 7. The space **22'** left between the lower end of the front wall **21'** and the lower end of the back wall **23'** is such that the clip **10'** will have a tight fit in the bracket **12'**. There is also a slight rearward inclination of the slotted upper edge portion of the back wall **23'** as seen at **31**, whereby to insure a better hold on the wall by the nails entered in the slots, due to their downward inclination. The construction otherwise follows the same pattern as the construction first described, and similar results are obtained.

It is believed the foregoing description conveys a good understanding of the objects and advantages of my invention. The appendeed claims have been drawn to cover all legitimate modifications and adaptations.

I claim:

1. Picture and mirror hanging hardware comprising a hook-shaped bracket part, and a generally U-shaped clip part, the hook-shaped bracket part being of appreciable length transversely in relation to its vertical dimension, and the clip part receiving the hook portion of said bracket part between the leg portions of the U, said clip part being also of appreciable length transversely in relation to its vertical dimension, and the two parts interengaged having elongated line contact on one another, one of said bracket and clip parts having longitudinally extending slots provided therein at opposite ends to receive brad, nail, or screw fastener means with latitude for lateral adjustment of the part with respect to the fasteners, the other of said bracket and clip parts having elongated slots provided therein at opposite ends in crosswise relation to the first mentioned slots adapted to receive brad, nail, or screw fastener means permitting adjustment of the last mentioned part relative to the fasteners in transverse relationship to the adjustment of the first mentioned part.

2. Mirror and picture hanging hardware as set forth in claim **1** wherein said bracket part has longitudinally extending horizontal slots provided therein at opposite ends adapted to receive brad, nail, or screw fastener means with latitude for lateral adjustment of said bracket relative to the fasteners from a given position before the fastener means are finally secured in a selected position, said clip part having attaching ears provided in coplanar relation on its opposite ends with vertical slots provided therein to receive brad, nail, or screw fastener means for fastening the same with latitude for vertical adjustment of the clip before the fasteners are finally secured.

3. Mirror and picture hanging hardware as set forth in claim **1** wherein said clip part also has other holes provided in said ears to receive brad, nail, or screw elements for final securing of the clip part after the adjustments.

4. Picture and mirror hanging hardware comprising a hook-shaped bracket part, and a generally U-shaped clip part, the hook-shaped bracket part being of appreciable length transversely in relation to its vertical dimension, and the clip part receiving the hook portion of said bracket part between the leg portions of the U, said clip part being also of appreciable length transversely in relation to its vertical dimension, and the two parts interengaged having elongated line contact on one another, said clip part having attaching ears in coplanar relation provided on opposite ends, the cross-portion of the U being in a plane in acute angle relationship to the plane of said attaching ears.

5. Mirror and picture hanging hardware as set forth in claim **4** wherein the bracket part has the front of the hook-shaped portion thereof inclined in substantially the same direction as the cross-portion of the clip part.

6. Picture and mirror hanging hardware comprising a hook-shaped bracket part, and a generally U-shaped clip part, the hook-shaped bracket part being of appreciable length transversely in relation to its vertical dimension, and the clip part receiving the hook portion of said bracket part between the leg portions of the U, said clip part being also of appreciable length transversely in relation to its vertical dimension, and the two parts interengaged having elongated line contact on one another, the bracket and clip parts being made to fit closely in one another.

7. Mirror and picture hanging hardware as set forth in claim **6** wherein the hook portion of said bracket part is of tapered form on the ends to facilitate entry between the leg portions of the clip part.

References Cited by the Examiner

UNITED STATES PATENTS

859,013	7/1907	Roberts et al.	248—224
2,234,821	3/1941	Duby	248—29
2,299,443	10/1942	Walmsley	248—29
2,530,892	11/1950	Mayo	248—31
2,635,840	4/1953	Barry	248—29
2,709,055	5/1955	Harty	248—28
3,117,353	1/1964	Edwards	20—92
3,165,287	1/1965	Parsons	248—224

CLAUDE A. LE ROY, *Primary Examiner.*