United States Patent

Gutner

[15] **3,694,049**

[45] **Sept. 26, 1972**

[54] DRAWER SLIDE STRUCTURE

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[21] Appl. No.: **168,695**

[52] **U.S. Cl.** **312/347,** 312/342, 312/345

[51] **Int. Cl.**.....**A47f 5/08**

[58] **Field of Search**.....312/347, 346, 342, 350, 344, 312/330; 211/162, 94.5; 308/3.6

[56] **References Cited**

UNITED STATES PATENTS

2,948,578	8/1960	Himelreich	312/342
3,015,532	1/1962	Wilson	312/344
3,328,107	6/1967	Gutner	312/346
3,365,261	1/1968	Gutner	312/347
3,375,051	3/1968	Anderson	312/347

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[57] **ABSTRACT**

A channel-shaped slide for the under side of a drawer having securing means at each end and additional tab means for stabilizing the slide in place against detachment.

5 Claims, 6 Drawing Figures

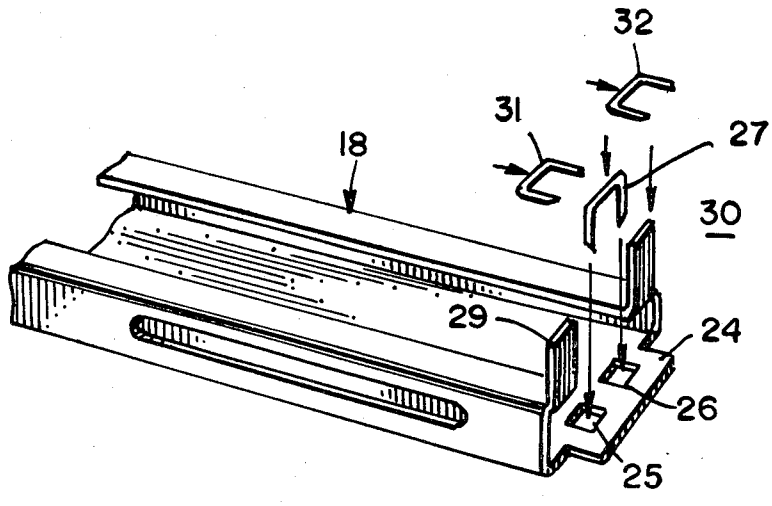


FIG. 1

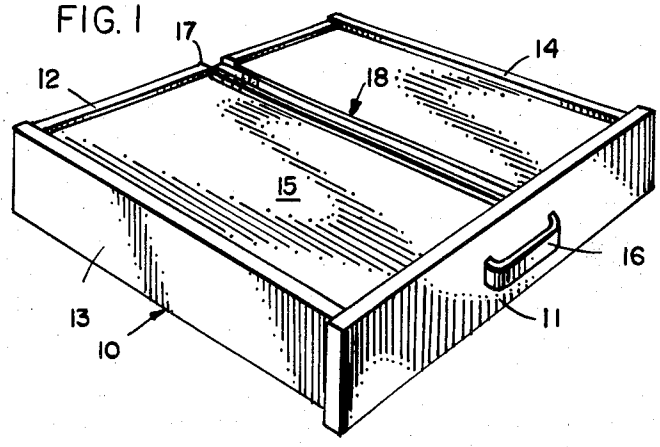


FIG. 2

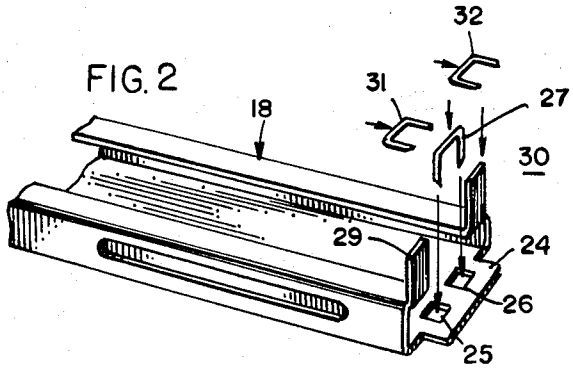


FIG. 4

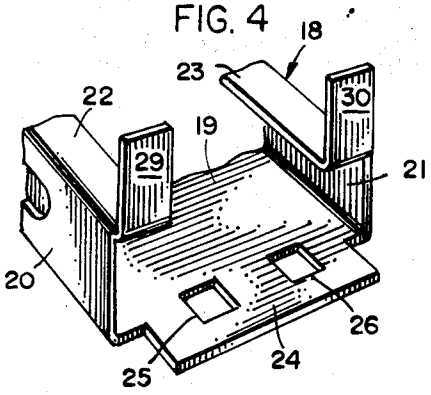
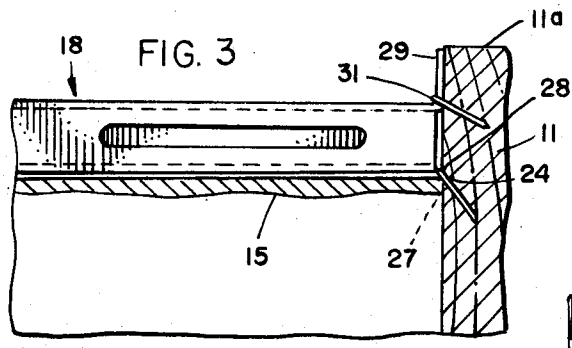


FIG. 3



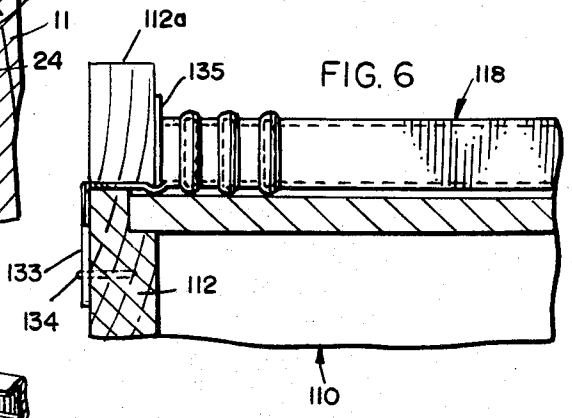


FIG. 6

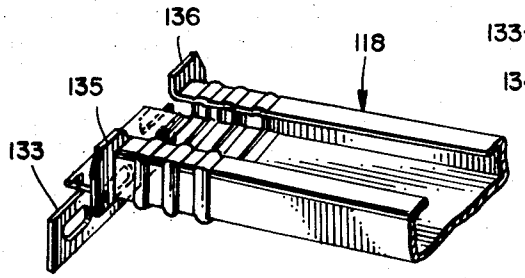


FIG. 5

DRAWER SLIDE STRUCTURE

BACKGROUND AND SUMMARY OF THE INVENTION

The instant invention is an improvement on the C-shaped elongated slides shown in my U.S. Pat. Nos. 3,328,107 and 3,365,261.

Although the metal slides shown in the above-identified patents have satisfactorily fulfilled the need for an inexpensive and readily installable means for guiding a dresser drawer or the like, a problem has arisen in the tendency of these slides to become detached after prolonged usage.

The slides are characterized by having tab means at each end which provide apertures through which staples or the like are installed into the drawer body. Through the instant invention, I provide further tab means adjacent one end of the drawer, and concealed and unobtrusive, so as not to interfere with the proper functioning of the slide and guide arrangement, but which substantially eliminates the tendency of the slide to become detached. It will be appreciated that with a detached slide, a problem is presented to the ordinary housewife user. The slide is left within the dresser while the drawer is pulled out, the staples lost, and so a difficult job of repair is faced. The likelihood of this happening is avoided by the instant invention, and this constitutes a principal object of the invention.

Still another object is to provide stabilizing means maintaining the important drawer slide element in place, and doing so in a fashion which is unobtrusive both insofar as the operation of the drawer and the esthetics thereof are concerned.

DETAILED DESCRIPTION

The invention is explained in conjunction with the accompanying drawing in which:

FIG. **1** is a perspective view, partially broken away, of a drawer in inverted condition and showing the inventive slide installed thereon;

FIG. **2** is a fragmentary perspective view of the front end of the slide (and in enlarged form relative to the showing of FIG. **1**);

FIG. **3** is a fragmentary sectional view of the drawer with the inventive slide affixed thereto;

FIG. **4** is a fragmentary perspective view of the front end of the inventive slide;

FIG. **5** is a fragmentary perspective view of the rear end of a modified form of slide constructed according to teachings of this invention; and

FIG. **6** is a sectional view through the drawer showing the slide of FIG. **5** fixed in place thereon.

In the illustration given and with reference to FIG. **1**, the numeral **10** designates generally a drawer which is shown in inverted condition and apart from the usual dresser or other furniture piece with which it is normally associated. The drawer is seen to include a front panel **11** and a rear panel **12** framed and connected by means of side panels **13** and **14**. Additionally, the drawer has a bottom as at **15**, and is equipped with the usual pull or handle **16** secured to the front panel **11**.

The rear panel **12** is slotted or notched, as at **17**, to permit a portion of the inventive slide generally designated **18** to pass therethrough. In the embodiment of the invention seen in FIGS. **1–4**, the rear end of the slide **18** is identical to that shown and described in my

above-mentioned U.S. Pat. Nos. 3,328,107 and 3,365,261, and reference may be made thereto for details of construction not shown or described herein. Also omitted for simplicity of presentation is the usual T-shaped guide member with which the slide cooperates and which can be seen in detail in my earlier U.S. Pat. No. 3,365,261.

Insofar as the embodiment of the invention seen in FIGS. **1–4** is concerned, the invention is particularly concerned with the forward end of the slide **18**. The forward end of the slide **18** is seen in enlarged form in FIG. **4**, and is seen to include a top wall **19** integrated with side walls **20** and **21**. Projecting inwardly from the lower edge of the side walls **20** and **21** (when the same are in operative condition and inverted from that shown in FIG. **4**) are flanges **22** and **23**, respectively.

The top wall **19** is extended forwardly to provide a tab portion **24** which is equipped with apertures as at **25** and **26** for the receipt of an angled staple **27** (see FIG. **2**). The staple **27** extends through the openings **25** and **26** into the bottom panel **15** of the drawer, and into the front panel **11**, thus anchoring the tab **24** in place. The tab **24** extends slightly into the front panel **11** (see FIG. **3**) in a slot, as at **28**, which may be provided as part of the groove receiving the bottom panel **15** within the front panel **11**.

To stabilize the installation, I equip the flanges **22** and **23** at their forward ends with depending tabs as at **29** and **30**. These are seen to abut the rear face of the front panel **11**, and are sized so as to not project below the bottom edge **11a** of the front panel (see FIG. **3**). For the purpose of further anchoring the slide **18**, I employ staples **31** and **32** (see FIG. **2**) which straddle the tabs **29** and **30** and secure the same in the fashion seen in FIG. **3**, viz., at approximately a 45° angle,as shown, to securely anchor the tabs.

In an alternative form of the invention as senn in FIGS. **5** and **6**, I modify instead, the rear end of the slide which is designated generally **118**. The slide **118**, at the rear end thereof, is equipped with an upwardly extending tab (in the operational condition) as at **133**. This tab is also present, but not seen, in the embodiment of the invention seen in FIGS. **1–4**. The tab **133** is fixed against the rear face of the rear wall **112** by means of a plurality of staples, one of which is designated **134**. To further anchor and stabilize the slide **118** in place on the drawer **110** (see FIG. **6**), I provide additional tabs as at **135** and **136** As can be appreciated from a consideration of FIG. **6**, the supplemental tabs abut the forward or front facing surface of the rear panel **112**, and, as in the case of the embodiment of the invention seen in FIGS. **1–4**, are limited in downward projection so as not to extend beyond the lower edge **112*a*** of the rear panel **112**. In some instances it has been found advantageous to provide both embodiments in the same fitting; by that, I refer to employing the tabs **29** and **30** at the forward end of the fitting, and the tabs **135** and **136** at the rear end of the fitting.

In the practice of the invention, I find it advantageous to employ the embodiment seen in FIGS. **1–4**. The installation of the slide **18** is accomplished through the utilization of merely two additional staples, and does not interfere in any way with the development of the upwardly facing tab **133** at the rear of the drawer. In any event, the provision of supplemental

tabs at the extremities of the slide developed a stabilization by not only preventing any inadvertent longitudinal detachment (longitudinal in the sense of drawer movement), but also serve to stabilize the slide against any lateral movement.

I claim:

1. A drawer slide adapted to be secured to the under side of a drawer and being relatively elongated in the direction of drawer movement when being inserted into or retracted from a dresser or the like, said fitting having a generally C shape in transverse section extending over a major portion of its length to cooperate with a guide on a dresser or the like, said fitting at one end thereof having a first integral tab means adapted to be positioned within a slot in a drawer first vertical panel and first aperture means adjacent to but spaced rearwardly from said first tab means for receiving a staple or the like for securing the one end of said fitting to a drawer bottom, said fitting at its other end being equipped with an integral second tab means folded upwardly from the remainder of said fitting for positioning against a second vertical panel of a drawer, second aperture means in said second tab means for receipt of a staple or the like for securing the rearward portion of said fitting to a drawer second panel, and an integral THIRD tab means on said fitting adjacent an end thereof for abutting one of said vertical walls to stabilize said fitting against inadvertent detachment.

2. The slide of claim 1 in which said integral third tab means is provided on said slide for positioning against said first vertical panel.

3. A drawer slide fitting adapted to be secured to the under side of a drawer and being relatively elongated in the direction of drawer movement when being inserted into or retracted from a dresser or the like, said fitting having a generally C shape in transverse section extending over the major portion of its length to cooperate with a guide on a dresser or the like, said fitting at one end thereof having an integral tab adapted to be positioned within a slot in a drawer front panel and first aperture means adjacent to but spaced rearwardly from said tab for receiving a staple or the like for securing the forward end of said fitting to a drawer bottom, said fitting at its other end being equipped with an integral second tab folded upwardly from the remainder of said fitting for positioning against the rear panel of a drawer, second aperture means in said second tab for the receipt of a staple or the like for securing the rearward portion of said fitting to a drawer back panel, and third tab means including downwardly extending integral flanges on said fitting at the forward end thereof arranged and constructed to abut the rear face of said front panel, and staple means straddling said third tab for securing the same in position against said front panel.

4. The drawer slide fitting of claim 3 in which said staple means straddling said third tab is installed at an angle relative to said front panel.

5. A slidable drawer structure comprising a generally C-shaped slide, said C shape defining a horizontal top wall integrated with vertical side walls and inwardly extending flanges integrated with said side walls below said top wall, said top wall being equipped with a rearwardly extending tab, said tab being folded upwardly and secured to a rear panel of said drawer, each of said flanges at the forward end thereof having a tab portion projecting downwardly and abutting the front panel of said drawer, and staple means securing said tab portions to the rear surface of said front panel, said staple means being installed at an angle to said rear surface.

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