Oct. 2, 1956 N. B. BUSH 2,765,208

AUTOMATIC STOP FOR SLIDE DRAWERS

Filed Aug. 16, 1954

Fig. 1

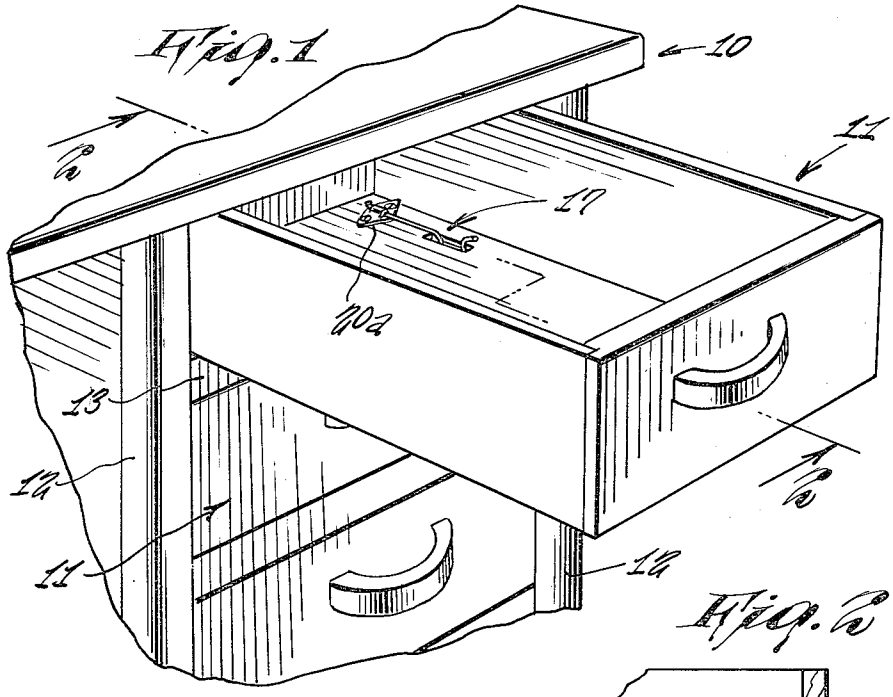


Fig. 2

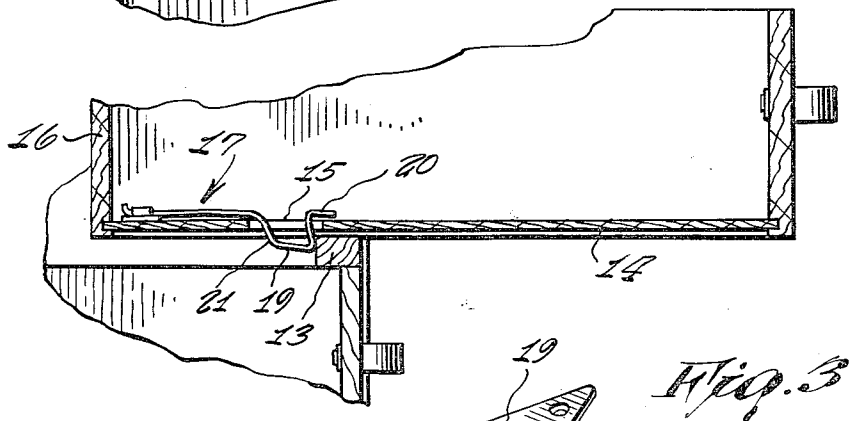


Fig. 3

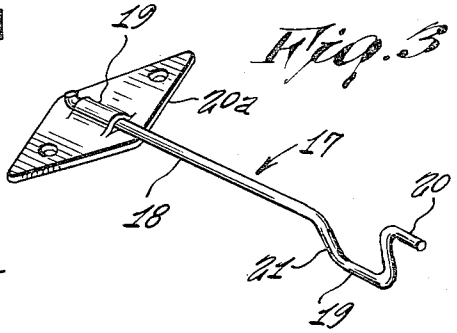
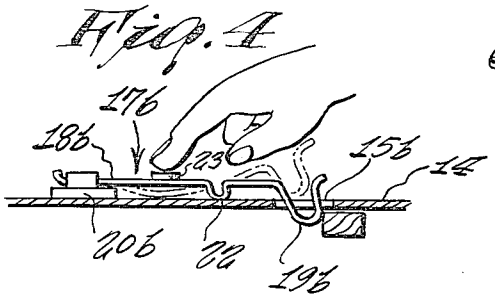


Fig. 4



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AUTOMATIC STOP FOR SLIDE DRAWERS

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2 Claims. (Cl. 312—348)

This invention relates to desks or other articles of furniture having slide drawers, and the main object is the provision of a novel, improved, practical and useful drawer stop which will prevent pulling the drawer entirely out of its recess except when such is the intention, thus avoiding inadvertent spilling of the contents of the drawer. The automatic stop is, however, easily manipulated to permit the drawer to be pulled all the way out whenever desired.

The above broad as well as additional and more specific objects will be clarified in the following description wherein characters of reference refer to like-numbered parts in the accompanying drawing. It is to be noted that the drawing is intended solely for the purpose of illustration and that it is therefore neither desired nor intended to limit the invention necessarily to any or all of the exact details of construction shown except insofar as they may be deemed essential to the invention.

Referring briefly to the drawing,

Fig. 1 is a fragmentary perspective view of a desk having a drawer equipped with the automatic stop of the present invention.

Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1.

Fig. 3 is a perspective view of the stop member per se including the base or plate by means of which it is readily attached to the drawer bottom.

Fig. 4 is a fragmentary sectional view similar to Fig. 2 showing, however, a modified form of the stop.

Referring in detail to the drawing, the numeral 10 indicates a desk or any other article of furniture equipped with one or more slide drawers 11. Slide drawers are usually mounted between uprights 12 and are slidable over a sill 13 between the uprights. No horizontal guides or rails are illustrated in the drawing, as they are of course standard equipment for such drawers and they form no part of the present invention.

The bottom panel 14 of the drawer is provided, for the purpose of this invention, with an opening or hole 15 adjacent one side of the drawer and near but spaced from the rear wall 16. The stop shown in Figs. 3 and 4 comprises an elongated member 17 formed of a single length of springy wire or any other suitable material, which may of course be of any diameter or may even be of flat stock, not shown. The member 17 comprises a shank portion 18 and a deformed front portion, the latter including an approximately U- or V-shaped downwardly extending deformation 19. The forward extremity of the member, shown at 20, is at a slightly higher elevation than the shank 18.

The member 17 is secured by engagement of the free end of the shank 18 in a sleeve or other fastening means 19 in a base 20*a*. The latter is mounted, as by means of screws passing through holes therein, flat on the upper surface of the bottom panel 14 substantially parallel with the adjacent side wall of the drawer and in such position that the deformation or stop 19 registers in the hole 15. When thus mounted the forward extremity 20 of the member 17 rests at a slight distance above the bottom panel so that a finger may readily engage it to lift the forward end and thus disengage the stop 19, or rather lift the latter out of the hole 15.

Normally, owing to the resiliency of the member 17, the stop 19 projects downward through the hole 15, so that when the drawer is pulled out a given distance it will be stopped by engagement of the stop 19 with the sill 13. To free the drawer, whenever desired, so that it may be fully withdrawn from its recess, the stop is lifted as just described. To simplify restoring the drawer into its recess and permitting it to be push all the way in, the connecting portion 21 of the member 17 between the shank 18 and the stop 19, slopes downward and forward, substantially as shown, so that this portion will readily ride over the sill and lift the stop clear of the sill, and when the stop passes the sill in its rearward travel the stop will automatically move down again into the hole 15.

In the modified form illustrated in Fig. 4, the member 17*b* is longer than the member 17 previously described, and between the base 20*b* and the stop 19*b* the shank 18*b* is provided with a downwardly extending U-shaped deformation or support 22, rounded at the bottom, having a depth below the shank substantially less than the distance to which the stop 19*b* extends below the shank so that in its normal position, as shown, the stop registers largely in the hole 15*b*. The support 22 is positioned nearer the stop 19*b* than the base 20*b*, and between the latter and the support 22 a button 23 or the like is provided on the shank. To raise the stop 19*b* out of the hole 15*b*, it is simply necessary to press down on the button 23 while pulling the drawer forward, and, as is obvious, this will cause the forward end of the shank to tilt upward and thus disengage the stop 19*b* from the hole 15*b*. Upon release of the button the stop automatically resumes its position in the hole 15*b*.

Obviously, modifications in form or structure may be made without departing from the spirit or scope of the invention.

I claim:

1. In an article of furniture having a slide drawer recess open at the top and front and having a sill under the forward end of the recess and a drawer horizontally slidable in and out of the recess through the front thereof, stop means to prevent inadvertent pulling of the drawer all the way out of the recess comprising an elongated normally substantially horizontal resilient member including a shank and an approximately U-shaped downwardly extending deformation near but spaced from the forward extremity of the shank, said forward extremity on the front end of said deformation at a level slightly higher than the level of the shank, said drawer having a bottom panel provided with a hole therethrough near but spaced from the rear end thereof, said shank having a base at the rear end thereof, said base being attached to said panel rearward of said hole with said member extending forward longitudinally of the drawer and said deformation registering in said hole to engage said sill during extraction of the drawer to limit the forward movement of the drawer, said shank having a second downwardly extending U-shaped deformation therein between said base and said first-named deformation and having a depth substantially less than said first-named deformation, said second deformation resting on said panel, depression of said shank at a point intermediate the base and said second deformation causing the forward portion of the member to rise to lift said first-named deformation from said hole.

2. The device set forth in claim 1, said shank having a button thereon at said point.

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