Sept. 16, 1941. F. C. SHELTERS 2,255,950

DRAWER CONSTRUCTION

Filed June 24, 1941

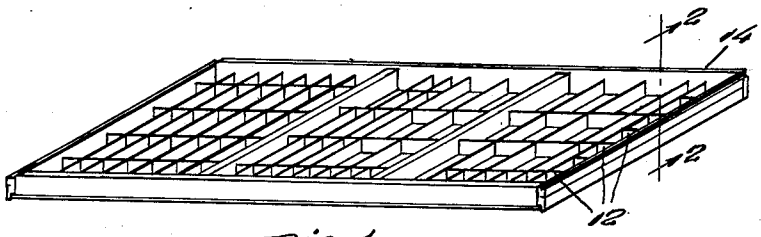


Fig. 1.

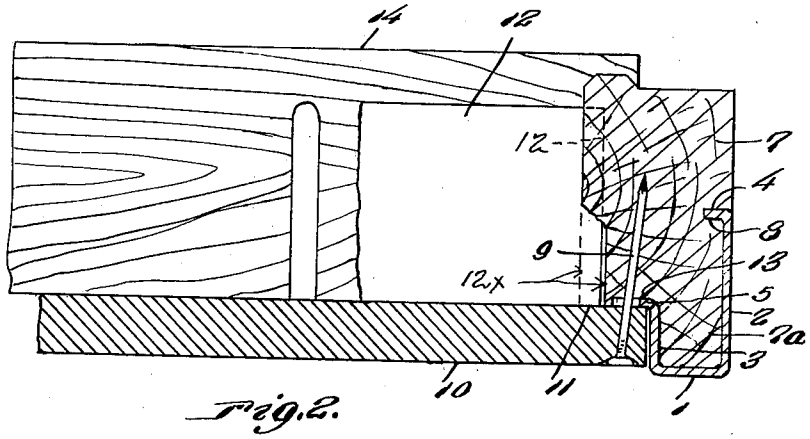


Fig. 2.

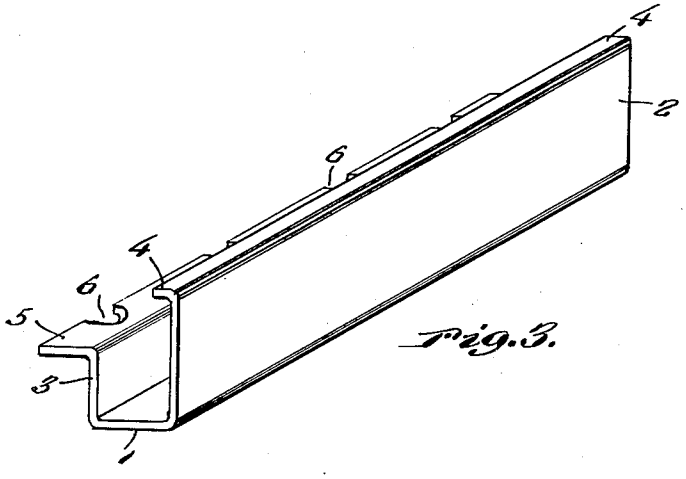


Fig. 3.

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DRAWER CONSTRUCTION

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9 Claims. (Cl. 276—44)

The invention relates to drawer construction comprising elongated runner shoes or pieces along the sides of the drawer, said runner shoes being of a suitable durable material such as of metal and upon which the drawer slides, and the invention further relates to the construction of said runner shoes.

The invention is particularly suited for type cases which are very heavy when containing type, and which must slide freely and often.

Objects of the invention are the provision of a drawer construction and runner shoe construction which is designed to be strong and durable and capable of ready assembly, and which will be easily slidable even when fully loaded.

The invention concerns the features, combination and arrangement of parts hereinafter described and particularly pointed out in the claims.

In the drawing

Figure 1 is a perspective rear view of a type case or drawer showing the general construction of the drawer.

Fig. 2 is a sectional elevation of a portion of said drawer assembly of my invention, substantially on the line 2—2 of Fig. 1.

Fig. 3 is a perspective view of the shoe of my invention.

Referring to the drawing, the elongated runner shoe of my invention is shown in Fig. 3 which shoe is embodied in the drawer assembly of my invention as shown in Fig. 2.

The runner shoes are designed to slide upon suitable guides or runways, preferably of metal, provided in the supporting cabinet for the drawers or type cases. The cabinet structure for receiving the drawers or slidable type cases, is not shown, as it forms no part of the present invention, which relates to the drawer assembly with the runner shoe and to the shoe construction itself.

The shoe is of elongated generally channel formation as shown, having a bottom wall 1 and side walls 2 and 3 to receive and embrace a portion of the side piece 7 of the drawer or case as shown in Fig. 2.

One of the side walls 2 of the shoe has at its upper portion, a laterally disposed flange 4 extending inwardly of the shoe to engage in a groove 8 in the side piece of the drawer, to aid in firmly holding the shoe in place.

Preferably the side wall 2 of the shoe extends upwardly beyond the horizontal plane including the uppermost part of the other side wall 3, which side wall 3 preferably has at its upper portion a substantially horizontal flange 5 extending outwardly of the shoe at a substantially lower level than the inwardly disposed flange 4 of side wall 2.

The outwardly extending substantially horizontal flange 5 of side wall 3 of the shoe is thus disposed intermediate the height of the shoe and below the flange 4 of side wall 2 which is at a higher level.

The flange 5 is preferably of a width less than the width of the main part of the shoe determined by the side walls 2 and 3. The flange 5 is preferably provided with openings 6 therein for the passage of fastening means such as nails 9, the openings 6 desirably being in the form of notches as shown.

The bottom wall 1 of the shoe preferably presents a substantially flattened bottom surface as a sliding surface and this is disposed slightly below the bottom piece 10 of the drawer.

In the construction of the assembly of my invention shown in Fig. 2, the lower edge of the side piece 7 is cut away along its inner side providing a depending portion or rib 7a along its outer side which is received and embraced by the channel shaped runner shoe of my invention, this rib or portion 7a of the side piece being in substantial engagement with the inside of the side walls 2 and 3 and bottom 1 of the shoe, and the groove 8 in the side is positioned at a proper elevation on the side piece 7 for receiving the flange 4 of the shoe.

The side piece 7 rests upon the bottom member 10 by engagement of the cut away lower edge surface with said bottom member 10 and has an area 11 of direct contact with the bottom piece 10 of the drawer or type case. One result of this is that slats of the case such as shown in Figs. 1 and 2 at 12, may be applied into their slots 12x in the side piece without need for notching the slats over the flange 5 of the shoe. It will be noticed from Fig. 2 that the depth of the slots 12x in the inner face of the side piece 7 extends from the dotted line to the vertical solid line indicated by the arrow heads of the leader line from the reference characters 12x.

The laterally disposed flange 5 of the shoe thus terminates short of the inner side of the side piece, and is received within a recess 13 formed in said side piece, and is thus disposed between the drawer bottom member 10 and the side piece 7.

In my construction, it is to be noted that a desirable feature is that the overall width of the shoe is less than the width of the side piece, providing the area 11 of direct contact while the

shoe embraces the side piece and is securely retained in place.

It will be apparent that the parts will be reversed for the construction of the other side of the drawer or type case.

The side wall 2 may desirably be received in a cut away area or recess in the side piece 7, so that the outer face of said side wall 2 is substantially flush with the outer face of the side piece 7.

Preferably, the shoes do not extend to the front of the drawer or case, but their front ends are desirably covered by a front piece 14 of the drawer.

A drawer construction is provided which is strong and solid with the shoe firmly embracing the side piece and held between the side piece and bottom member, while providing the area of direct contact between the side piece and bottom member as noted.

I claim:

1. A runner shoe for drawer structures comprising an elongated member of generally channel formation having a bottom wall and side walls to receive and embrace a portion of the side piece of the drawer, one of said side walls of said shoe having at its upper portion a laterally disposed flange extending inwardly of the shoe to engage in a groove in the said side piece of the drawer.

2. A runner shoe for drawer structures according to claim 1 in which said side wall extends upwardly beyond the horizontal plane including the uppermost part of the other of said side walls.

3. A runner shoe for drawer structures according to claim 1 in which the said side wall extends upwardly beyond the horizontal plane including the uppermost part of the other of said side walls, said other side wall having at its upper portion a substantially horizontal flange extending outwardly of the shoe at a substantially lower level than said first mentioned inwardly extending flange.

4. A runner shoe for drawer structures according to claim 1 in which said bottom wall of the shoe presents a substantially flattened bottom surface.

5. A runner shoe for drawer structures comprising an elongated member of generally channel formation having a bottom wall and side walls to receive and embrace a portion of the side piece of the drawer, one of said side walls having a substantially horizontal flange at a point intermediate the height of the shoe, and the other of said side walls having a laterally disposed flange at a higher level to fit into a recess in the side piece of the drawer.

6. A runner shoe according to claim 5 in which said intermediate flange is of a width less than the width of the main part of the shoe determined by its side walls.

7. In a drawer structure for type cases, a drawer side piece, a runner shoe for said drawer comprising an elongated member of generally channel formation having a bottom wall and side walls, said channel shaped runner shoe receiving and embracing a portion of said drawer side piece, one of said side walls of said shoe having at its upper portion a laterally disposed flange extending inwardly of the shoe, said drawer side piece having a groove in its outer side and said laterally disposed flange extending into said groove.

8. In a drawer structure for type cases, a drawer bottom member, a drawer side piece, a runner shoe for said drawer comprising an elongated member of generally channel formation having a bottom wall and side walls, said channel shaped runner shoe receiving and embracing a portion of said drawer side piece, one of said side walls of said shoe having at its upper portion a laterally disposed flange extending inwardly of said shoe, said drawer side piece having a groove in its outer side and said laterally disposed flange extending into said groove, the overall width of said shoe being less than the width of said side piece, and said drawer bottom member and drawer side piece having an area of direct contact with each other permitting application of slats of the type case into the side piece without notching of said slats to avoid the shoe.

9. A drawer structure for type cases, according to claim 8 in which said groove in the drawer side piece is at level above that of the upper side of the drawer bottom member, the other of said side walls of said shoe having at its upper portion a horizontal flange at a lower level than said first mentioned flange and extending outwardly of the shoe and resting upon said bottom member, the width of said last mentioned flange being less than the width of the main part of the shoe bounded by its side walls.

FREDERICK C. SHELTERS.

DISCLAIMER

2,255,950.—*Frederick C. Shelters*, Ludington, Mich. DRAWER CONSTRUCTION. Patent dated Sept. 16, 1941. Disclaimer filed July 3, 1946, by the assignee, *Thompson Cabinet Company*.

Hereby enters this disclaimer to the following claims of said patent: Claim 1, except in so far as the language of claim 1 is incorporated into claim 3; claims 2, 4, 7, and 8.

[*Official Gazette August 27, 1946.*]