A. E. WICKSTROM.

STOP FOR EXTENSION FILES.

APPLICATION FILED MAY 7, 1920.

1,376,493.

Patented May 3, 1921.

2 SHEETS—SHEET 1.

Fig. 1.

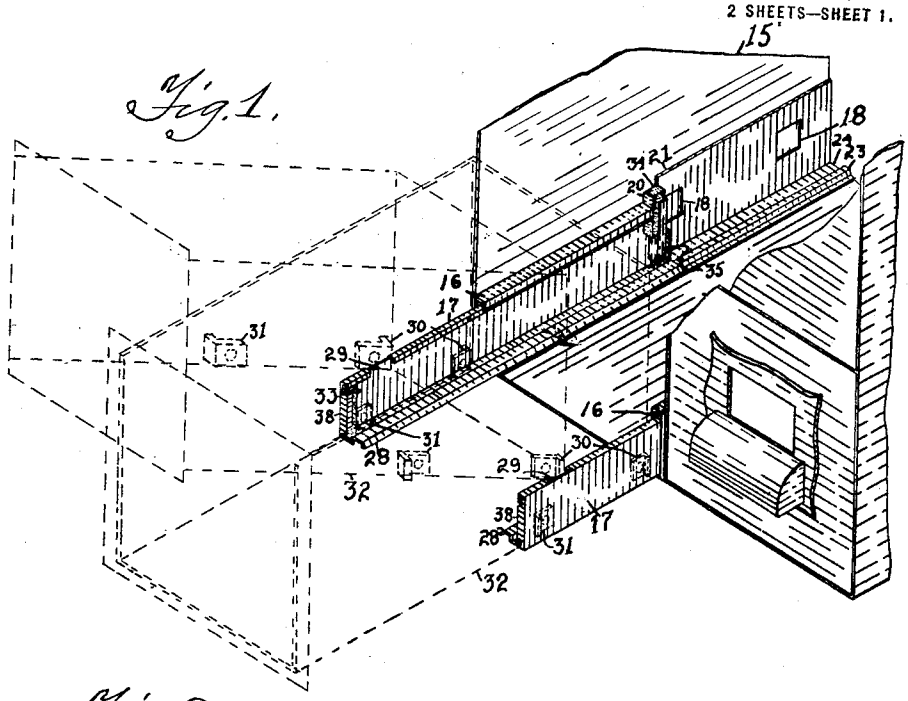


Fig. 2.

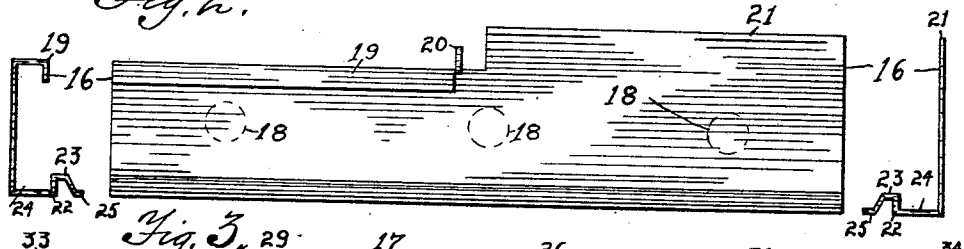


Fig. 3.

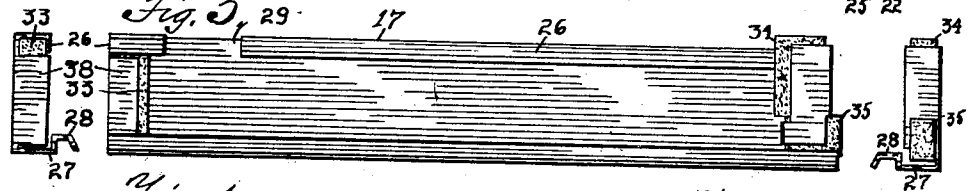
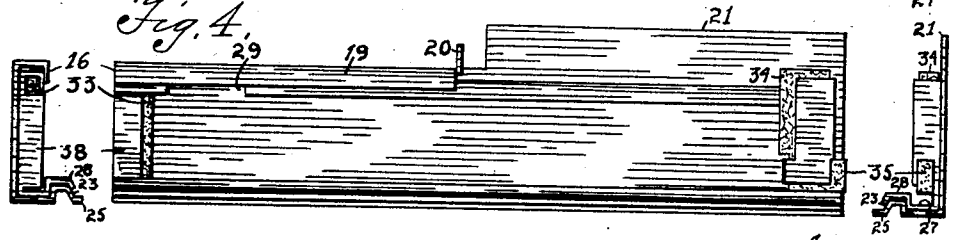


Fig. 4.



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2 SHEETS—SHEET 2.

Fig. 6.

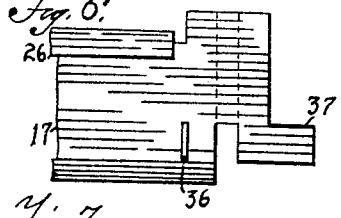


Fig. 7.

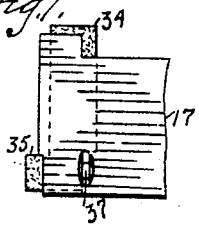


Fig. 5.

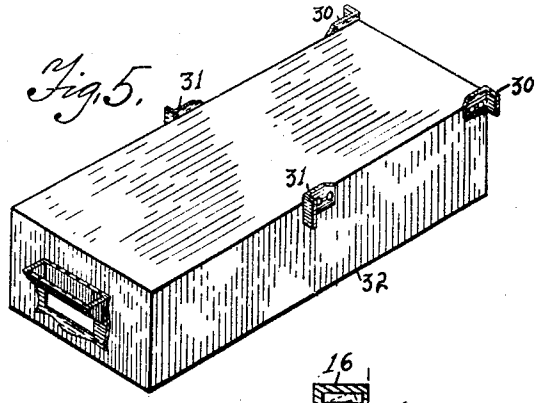


Fig. 8.

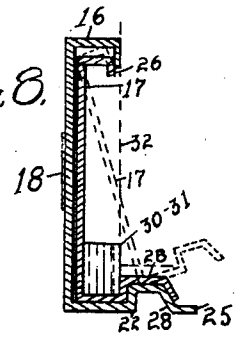


Fig 9

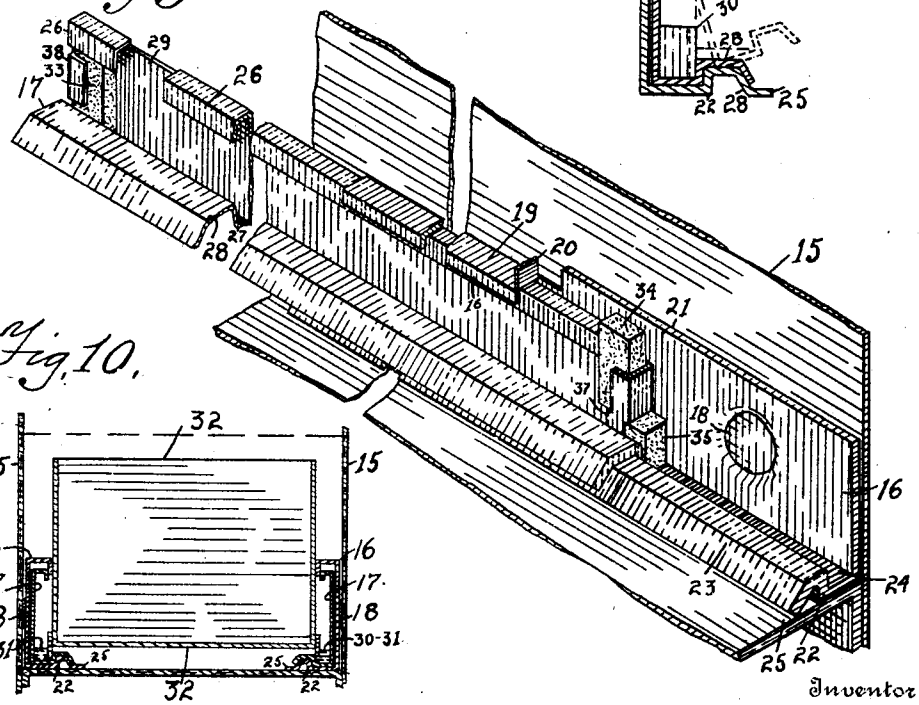


Fig. 10.

Inventor

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UNITED STATES PATENT OFFICE.

ALFRED E. WICKSTROM, OF JAMESTOWN, NEW YORK.

STOP FOR EXTENSION-FILES.

1,376,493. Specification of Letters Patent. Patented May 3, 1921.

Application filed May 7, 1920. Serial No. 379,507.

To all whom it may concern:

Be it known that I, ALFRED E. WICKSTROM, a citizen of the United States, residing at the city of Jamestown, in the county of Chautauqua and State of New York, have invented certain new and useful Improvements in Stops for Extension-Files, of which the following, taken in connection with the accompanying drawings, is a specification.

The invention relates to stops for extension supports or slides for small filing drawers, or drawers for card indexes, envelops and similar articles, in which it is desirable to support the entire drawer in front of the case for access to all parts of the same; and the improvement consists in providing a stop structure especially for use with a simple and easily operated sheet metal two-part slide in which the drawer is supported in the inner slide, the outer slide being attached to the case and the other slide removably insertible within said outer slide, said slides being so shaped that they can easily be struck up by means of suitable dies and presses, thereby making it easy to standardize the construction so that it can be manufactured economically yet providing a simple and durable slide drawer support which is easy of operation; and the invention consists in the novel features and combinations hereinafter set forth and claimed.

In the drawings, Figure 1 is a perspective view of a portion of the case, the upper part being broken away and the drawer shown in dotted outline with the slides partially withdrawn from the case showing the manner of inserting the drawer in the inner slide at each side. Fig. 2 shows end and inner side elevations of the slide portion which is attachable to the case; and Fig. 3 shows similar views of the inner extension slide; and Fig. 4 shows similar views of the assembled extension slide parts in the closed position. Fig. 5 is a perspective view of the drawer in the inverted position showing the spaced lugs on the opposite sides and their extension below the bottom of said drawer to form supports. Fig. 6 is an elevation of a blank from the inner side of the inner end of the inner slide portion, showing the peculiar shape of the same in order to inclose and hold the peculiarly shaped double leather or soft bumper; and Fig. 7 is an elevation of the outer side of said extension slide portion inner end with said double bumper inclosed therein showing the riveted lug extending through the slot in the sheet metal extension slide to firmly hold said bumper in a fixed position on the slide end. Fig. 8 is a crosswise sectional view of the assembled slides showing the construction and arrangement of the same, and also showing in dotted outline the manner of removal and insertion for the inner slide within the outer part. Fig. 9 is a perspective view of the two parts attached in a drawer compartment of the case showing one of the blisters through which said outer part is spot welded or riveted to the sheet metal case, and the arrangement of the stops and flanges on said slides; and Fig. 10 is a crosswise sectional view of the drawer supported within the case on the extension slides.

Like characters of reference refer to corresponding parts in the several views.

The numeral 15 designates the supporting case; and the numeral 16 the outer extension slide part, and the numeral 17 the inner extension slide part.

The outer extension slide part 16 has the blisters 18 punched therein simultaneously with the shaping of the part by suitable dies, which blisters 18 extend from the inner side toward the casing 15 as shown in Figs. 8 and 9 and in dotted outline in Fig. 2, which blisters may be either round or square, but should have sufficient flat surface for spot welding or riveting to the case 15, preferably about three blisters to the outer slide part 16 for attachment to the case at each side of the drawer opening.

Said outer extension slide part 16 is shaped as shown in section and end elevation with an upper flange 19 for the front one-half portion of its length and has the up-turned stop lug 20 at its rear end. The rear portion 21 of the slide 16 instead of being turned down as in the front portion, extends upward against the inner wall of the case. The bottom flange 22 has the lengthwise angular upward groove 23 formed therein to provide a supported side for the groove 24 for the lower edge of the inner extension slide 17, the outer edge 25 being extended down to support the flange formed by the upturned portion 23 and hold the same firmly in line throughout the length of said extension slide part 16. This arrangement also provides means for holding the inner slide part 17 firmly in line as it slides backward and forward, and also permits turning said inner slide part into

and out of said groove 24 as well as the upper flange 19, the upper edge of the inner part 17 being inserted into the upper flange 19 and sprung into the groove 24 over the lengthwise upward projection 23, whose outer side is formed at an inclination.

The inner slide part 17 has the spaced return bend upper flange 26 which slidably fits within the upper flange 19 of the slide 16 and also has a bottom flange 27 which is shaped similar to the bottom flange 22 on the outer slide and slidably fits within the same, the bent-up portion 28 being shaped to extend out over the bent-up portion 23.

The upper flange 26 has the cut-away portion 29 to receive therethrough the spaced lugs 30 and 31 which are attached on each side of the drawer 32 and extending beneath the bottom of the same a spaced distance so as to hold said drawer supported upon the four lugs 30 and 31 as upon four legs within the bottom groove flange 27 of the inner drawer slide 17, the drawer 32 being proportioned as to width so that the outwardly turned lugs 30 and 31 will enter the inner slides 17 on the opposite sides of the case as shown in Fig. 1 and drop into the lower groove 27 so that said slides 17 can carry the drawer backward and forward, supporting it firmly in position as said inner slides 17 are supported and held within the outer slides 16. The lugs 30 are attached on the opposite sides of the rear end of the drawer 32 and the stops 31 about midway of the drawer length to permit the extreme withdrawal of the drawer one-half its length, yet support it in said extreme extended position.

The inner slide 17 is provided with end stops or bumpers 33 at the front end and 34 at the rear end for the drawer to render the operation of said drawer and the slide 17 as noiseless as possible. The rear bumper 34 is a two-way bumper, having the rearwardly lower extending portion 35. The rear end portion of the inner slide 17 is L-shaped as shown in Fig. 6 so that said rear end portion may be bent around and inclose the bumper 34 35, leaving the upper portion exposed toward the drawer stop 20 and the rear portion 35 exposed toward the inner wall of the case.

A slot 36 is provided in the slide 17 into which the tongue or lug 37 extends after bending around and inclosing the bumper 34 35, extending through said slot 36 a sufficient distance to be riveted into holding tension on the drawer slide 17 so that said bumper 34 35 is held firmly in position and cannot be pushed aside or bent in performing its double office. The bumper 33 at the forward end of the slide 17 is inclosed by means of the spaced return end bend flange 38 which holds said leather bumper 33 firmly in position. The cut-away portion 29 in the upper flange 26 begins a short distance inside of the bumper 33 so that when the drawer 32 is drawn forward to its extreme extension in front of the case, said drawer cannot be lifted out through said cut-away portions 29 without pushing the drawer back slightly. This arrangement prevents the drawer bumping out or slipping out when drawn forward with an extra amount of energy, holding the parts all firmly in position.

When said drawer is in the extended position, the bumper 34 engages the stop 20 on the rear end of the flange 19, thereby holding a sufficient portion of the inner slide 17 within the outer slide 16 which is attached to and accordingly a part of the case 15 so that the weight of the drawer, even though heavily loaded, will be strongly supported in the extended position in front of the case so that all parts of said drawer are exposed and easy of access.

The case with which the inner extension slides 17 may be inserted sidewise within the outer slides 16 is apparent, said parts are easy to assemble or disassemble and all parts may be struck up by means of suitable dies.

I claim as new:

1. In a stop, a support, a stop member of L-shape having its upper end extending above the support and having the rear end of its lower part extending rearwardly beyond the support, and means to secure the stop member to the support, including a part folded around the vertical part of the stop member and engaged with the upper face of the lower part of the stop member to hold the latter against upward movement.

2. In combination with a support having an aperture a two-way stop consisting of an L-shaped member having the upper portion thereof extending toward the front and the lower portion extending toward the rear, and a lug on the support bent around said stop and inserted through the aperture and riveted to hold the stop onto the support.

3. In a stop, a support, a stop member of approximately L-shape, and means to secure the stop member to the support including a part engaged around the rear of the vertical part of the stop member and with the upper face of the horizontal part of the stop member to hold the latter against upward movement, and a part engaged with the front end of the horizontal part of the stop member to hold the stop member against downward movement.

In testimony whereof I have affixed my signature in the presence of two witnesses.

ALFRED E. WICKSTROM.

Witnesses:
C. V. SWANSON,
M. T. PATCHIN.