

April 18, 1950

C. B. WILHOITE ET AL
SEWING CABINET

2,504,479

Filed Aug. 15, 1946

2 Sheets-Sheet 1

Fig. 1.

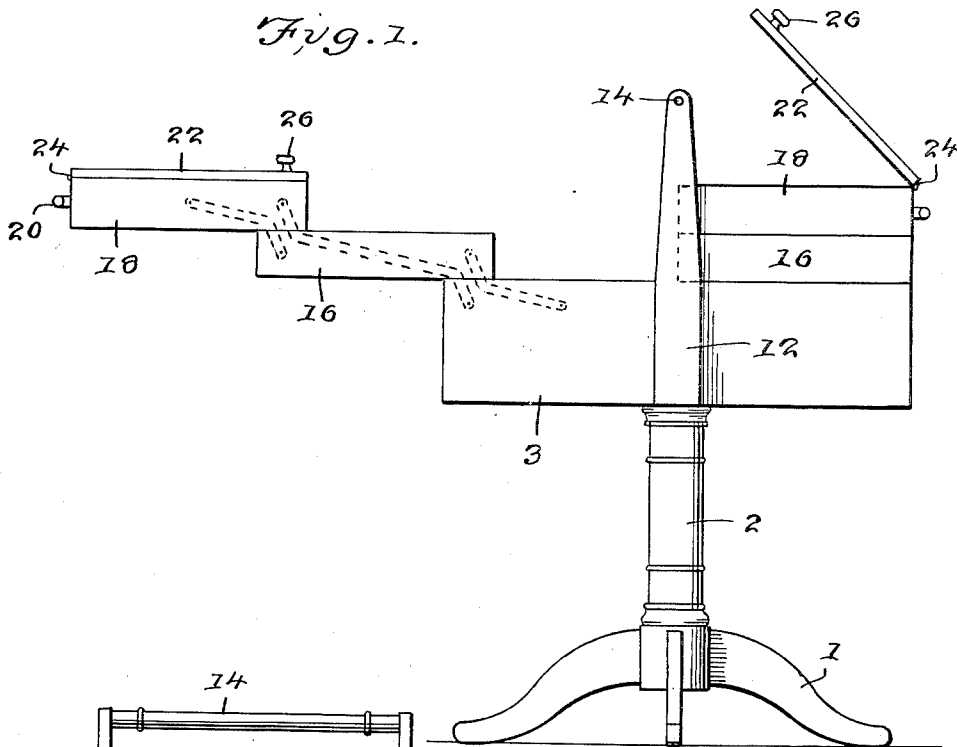
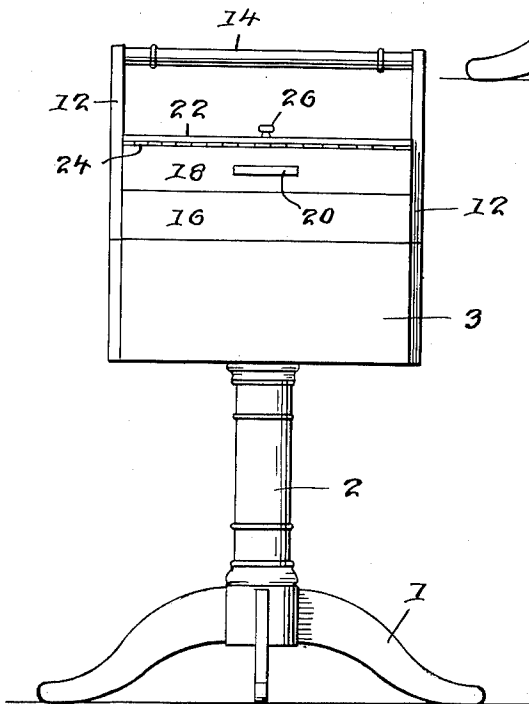


Fig. 2.



INVENTOR.
Charles B. Wilhoite
Frank R. Shields
BY Victor J. Evans & Co.

ATTORNEYS

April 18, 1950

C. B. WILHOITE ET AL
SEWING CABINET

2,504,479

Filed Aug. 15, 1946

2 Sheets-Sheet 2

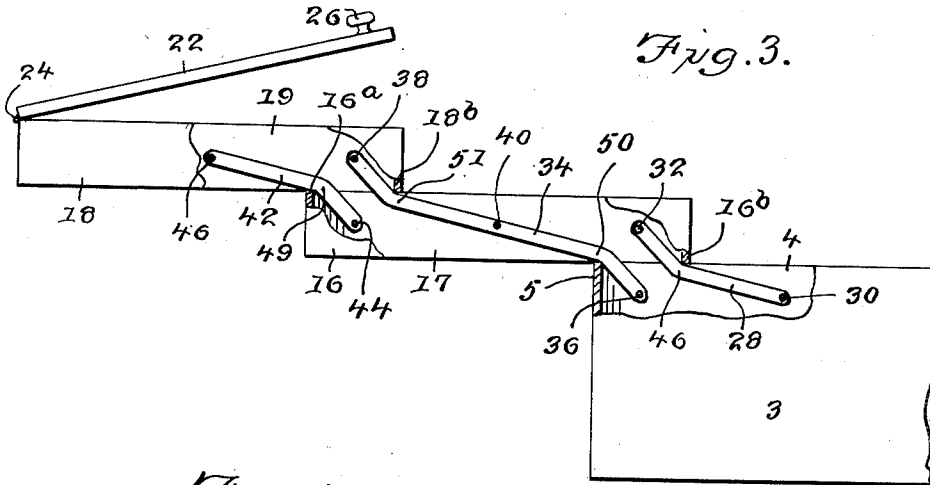


Fig. 4.

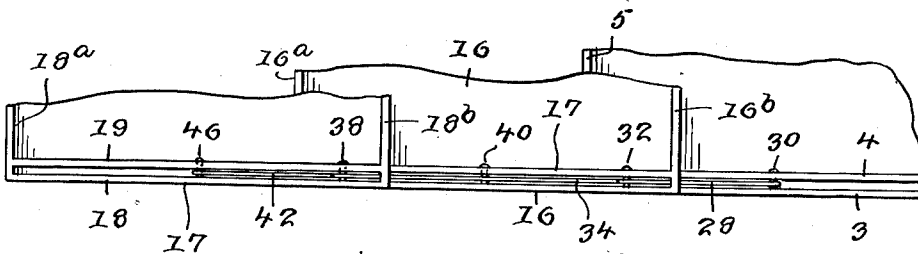
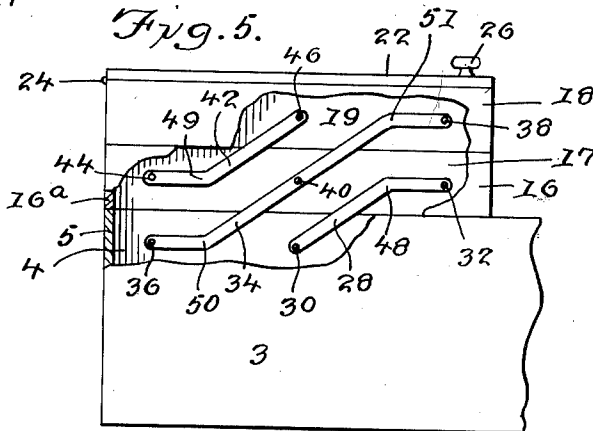


Fig. 5.



INVENTOR
Charles B. Wilhoite
Frank R. Shields
BY Victor J. Evans & Co.

ATTORNEYS

UNITED STATES PATENT OFFICE

2,504,479

SEWING CABINET

Charles B. Wilhoite and Frank R. Shields,
Detroit, Mich.

Application August 15, 1946, Serial No. 690,813

1 Claim. (Cl. 312-153)

1

Our present invention relates to an improved sewing cabinet and more particularly to the mechanism employed for opening and supporting the open drawers.

In a sewing cabinet embodying our invention the structure when closed has the appearance of an ornamental piece of furniture and pleasing design, while the multiple drawers may be opened with facility and ease in a single operation for each tier of drawers, the contents of the drawers will be completely visible.

In the accompanying drawings we have illustrated one complete example of the physical embodiment of our invention according to the best mode we have this far devised but it will be understood that various changes and alterations may be made in the exemplified structure within the scope of the appended claim.

In the drawings—

Figure 1 is a side elevational view of the cabinet embodying our invention showing one tier of drawers open.

Figure 2 is an end elevational view of the cabinet.

Figure 3 is a partial side elevational view in detail showing the drawers in extended position.

Figure 4 is a partial top plan view of the drawers open.

Figure 5 is a partial vertical sectional view showing the drawers and levers in retracted position.

Referring now to the drawings in detail wherein like characters indicate like parts, we have illustrated the cabinet of our invention supported upon the feet 1 and the pedesal 2.

Upon the pedestal 2 we have provided a base box 3 having spaced interior end walls 4, a front 5 and rear wall 6. Suitably attached to the base box are provided upright posts 12 and a connecting handle 14.

Upon the base box 3 we have mounted an intermediate drawer 16 having spaced interior end walls 17, and side walls 16a and 16b. The top drawer 18 is mounted upon the intermediate drawer 16 and is fashioned with spaced interior end walls 19, and side walls 18a and 18b. A lid or cover from the top drawer is illustrated at 22 hinged to the drawer at 24 and fashioned with a knob 26. The handle 20 is provided for opening the tier of drawers while the knob is provided for lifting the lid 22 only.

The base box and the upper drawers are connected by a series of levers or linkage by means of which the drawers may simultaneously be opened and supported in open position.

2

The lever 28 is pivoted at 30 on the base box and at 32 on the intermediate drawer. The lever 34 is pivoted at 36 on the base box and at 38 on the upper drawer, and this link or lever is fulcrumed at 40 on the intermediate drawer. The lever 42 is pivoted at 44 on the intermediate drawer and at 46 on the upper drawer.

It will be noted that the levers 28 and 42 are formed with elbows 48 and 49 respectively while the lever 34 is formed with opposite elbows 50 and 51 thereon. The smaller levers are of identical length and are pivoted on the upper and base drawer with the main portions of the levers parallel. The main lever 34 is also pivoted to the drawers in parallel relation with the smaller levers and is located therebetween.

As the top drawer 18 is pulled laterally by the handle 20 all of the levers rotate on their respective pivots and the drawers in their movement describe arcs until the drawers come to rest in extended position, the elbow 48 supporting the end wall 16b; the elbow 50 resting on the end wall 5; the elbow 51 supporting end wall 18b; and the elbow 49 resting on end wall 16a. Thus in extended position, the drawers are self-supported by cantilever effect and it will be noted that in extended position the main portion of the three levers are in a substantially straight line running upwardly at an angle from the innermost pivot 30 on the base box.

Thus the single simple motion of pulling laterally on the handle 20 will open all of the drawers of the tier and make the contents readily visible and accessible.

Pushing on the handle 20 will arc the drawers back to retracted position where the drawers rest neatly one upon the other.

All of the levers are concealed within the spaced walls of the drawers and are only visible when the drawers are in extended position, so that the drawers when closed give the cabinet a finished and neat appearance.

Having thus fully described our invention what we claim as new and desire to secure by Letters Patent is:

In a folding drawer cabinet, the combination which comprises a rectangular shaped base box positioned on a pedestal and having a base with side walls and double end walls and having an open upper end, each of said end walls of the base box including spaced panels thereby providing lever operating areas within the walls, an intermediate drawer also having a base with side walls and double end walls and having an open upper end, each of said end walls of the intermediate

drawer also including spaced panels providing
 lever operating areas within the walls, an upper
 drawer also having a base with side walls and
 double end walls and having an open upper end,
 each of said end walls of the upper drawer also
 including spaced panels providing lever operat-
 ing areas within the walls, a cover hinged to a
 wall of the upper drawer, a pair of main levers
 positioned in the lever operating areas in the
 double end walls of the drawers and base box
 connected at points intermediate of the ends
 thereof to points intermediate of the ends of the
 said end walls of the intermediate drawer and
 with the ends thereof pivotally connected to the
 inner part of the upper drawer and outer part of
 the said base box at points spaced from the side
 walls of the drawer and box, the intermediate
 portions of said main levers being diagonally posi-
 tioned and end sections thereof being positioned
 parallel to upper and lower surfaces of the draw-
 ers and base box with the drawers nested upon
 the said base box whereby with the drawers in
 the open position the intersecting points between
 the inner and outer parallel ends and diagonally
 positioned intermediate parts engage the upper
 edge of the base box and lower edge of the upper
 section, respectively, outer and inner end levers
 also positioned in the lever areas between the
 double end walls of the base box and drawers,
 with one end of each of said outer and inner
 end levers pivotally connected to the said inter-
 mediate drawer at points spaced from the side
 walls thereof and in a horizontal plane extended
 through the pivot points of the main levers on the
 ends of the intermediate drawer, the other end of
 each of the outer end levers being pivotally con-
 nected to the ends of the upper drawer at points
 intermediate of the sides thereof and the other

end of each of the inner end levers being pivot-
 ally connected to the adjoining end of the said
 base box at a point spaced from the end of each
 of the end walls thereof a distance equal to one
 half of the width of the drawer, said outer end
 levers having diagonally disposed inner ends po-
 sitioned parallel to the outer ends of the said
 main levers with the drawers extended and
 straight outer end sections positioned parallel to
 the intermediate sections of the main levers with
 the drawers nested, said inner end levers hav-
 ing diagonally disposed outer ends positioned par-
 allel to the inner ends of the said main levers
 with the drawers extended and straight inner end
 sections positioned parallel to the intermediate
 sections of the main levers with the drawers
 nested, and whereby the intersections of the diag-
 onally disposed and straight sections of the outer
 end levers rest upon the outer side wall of the
 intermediate section with the drawers extended
 and the intersection of the diagonally disposed
 and straight sections of the inner end levers bear
 against the under edge of the inner side wall of
 the intermediate section with the drawers ex-
 tended.

CHARLES B. WILHOITE.
 FRANK R. SHIELDS.

REFERENCES CITED

The following references are of record in the
 file of this patent:

UNITED STATES PATENTS

Number	Name	Date
664,363	Upham	Dec. 18, 1900
1,675,484	Coe	July 3, 1928
2,203,008	Bauman	June 4, 1940