Aug. 27, 1929. R. M. MILLER 1,725,816

DESK

Filed Jan. 7, 1927 2 Sheets-Sheet 1

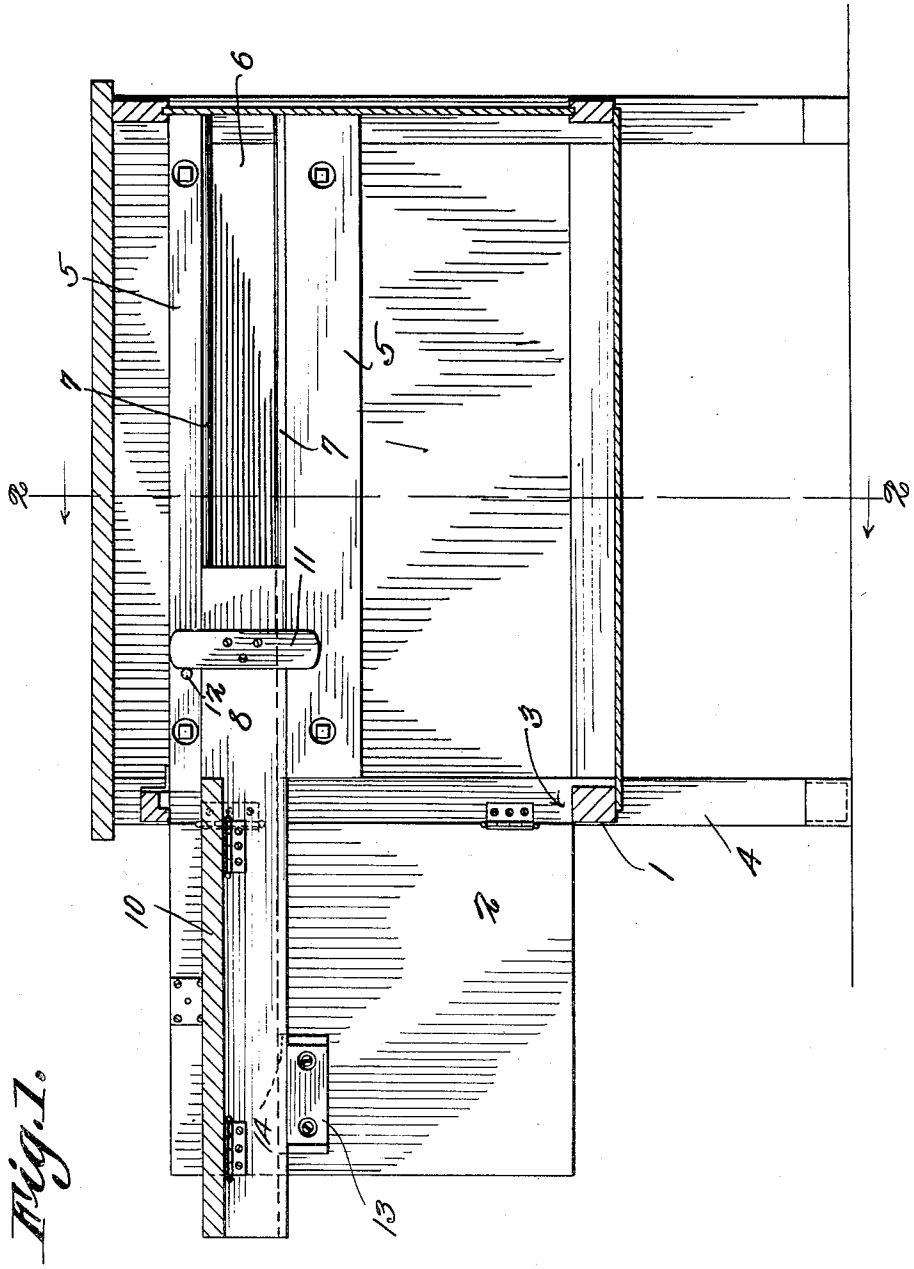


Fig. 1.

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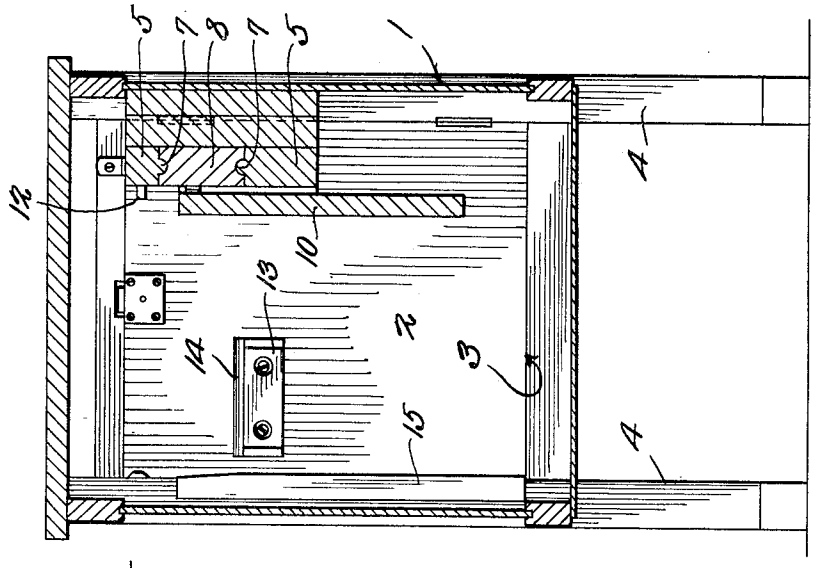


Fig. 4.

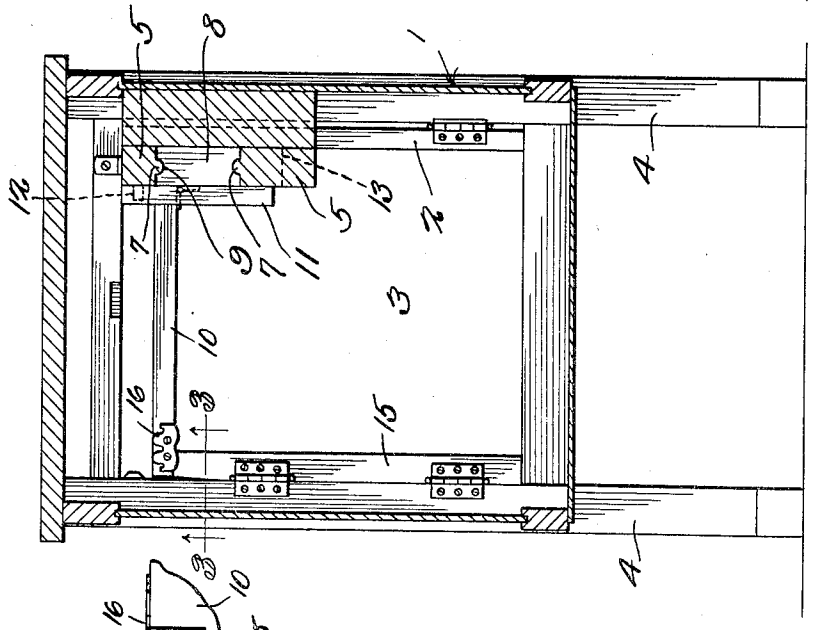


Fig. 2.

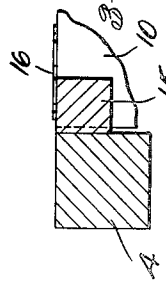


Fig. 3.

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UNITED STATES PATENT OFFICE.

ROBERT M. MILLER, OF MONTGOMERY, PENNSYLVANIA.

DESK.

Application filed January 7, 1927. Serial No. 159,665.

This invention relates to a desk designed primarily for holding a typewriter, one of the objects of the invention being to provide a leaf for supporting a typewriter and which leaf, when not in use, can be readily positioned, with the typewriter fastened thereto within the body portion of the desk where it can be concealed by a door provided for that purpose.

Another object is to provide a typewriter desk utilizing a hinged leaf or shelf which does not require the use of levers or other complicated mechanism for facilitating the opening of the desk and the proper positioning of the typewriter, thereby greatly reducing the cost of production as well as the displacement or breakage of parts.

A still further object is to provide a structure of this character the parts of which are so assembled and operated that the leaf or shelf supporting the typewriter can be readily brought to operative position and firmly held without danger of becoming accidentally released.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed may be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawings the preferred form of the invention has been shown.

In said drawings,

Figure 1 is a vertical longitudinal section through the desk showing the typewriter supporting leaf or shelf extended to operative position.

Figure 2 is a section on line 2—2, Figure 1.

Figure 3 is an enlarged section on line 3—3, Figure 2.

Figure 4 is a section similar to Figure 2 but showing the typewriter supporting leaf or shelf housed within the desk and the desk door closed.

Referring to the figures by characters of reference 1 designates a desk structure provided at one end with a door 2 adapted normally to close an opening 3 in the wall of the desk. This opening is provided between corner posts 4 and secured within the desk at one side thereof are superposed parallel guide strips 5 spaced apart as at 6 and provided with longitudinally extended ribs 7. A slide 8 is mounted between the strips 5 and has longitudinal grooves 9 in the upper and lower edges thereof for the reception of the beads or ribs 7. This slide is adapted to assume a position entirely between the two strips 5 at which time the door 2 can be closed across the opening 3 as shown particularly in Figure 4.

Hingedly connected to the side 8 is a leaf or shelf 10 normally suspended from the slide. A typewriter, not shown, is adapted to be bolted or otherwise fastened securely to this leaf or shelf so as to be held thereto when the leaf is in any position. Normally the leaf is suspended within the body of the desk as shown in Figure 4 and, therefore, the typewriter attached to the leaf will also be housed within the desk where it can be concealed by the closed door 2.

A cross head 11 is secured to the slide 8 and laps the guide strips 5, this head being movable against a stop lug 12 on one of the guide strips so as to limit the outward sliding movement of the shelf or leaf 10 and the slide 8.

The door 2 is provided near its free vertical edge with a supporting block 13 and this block has its upper edge in line with the upper edge of the lower guide strip 5 when the door 2 is open. A rib or bead 14 is formed along the top edge of the block 13. Thus when the slide 8 is pulled outwardly from the guides 5 the lower edge thereof will ride onto and engage the upper edge portion of the block 13, thereby holding the door 2 against lateral swinging in one direction. At the same time the door and block will support the outer end portion of the slide.

The width of the shelf or leaf 10 from the hingedly supported side thereof to the opposite edge is preferably equal to or slightly less the width of the door opening 3. A supporting cleat 15 is hingedly connected to the corner post 4 at that side of the door opening 3 remote from the slide 8. When this cleat is not in use it is swung laterally and inwardly away from the door opening as shown in Figure 4. When the cleat is in use for supporting the leaf or shelf 10, it is swung into the door opening as shown in Figures 2 and 3. At this time the upper end of the cleat is lapped by the lower edge of a retaining plate 16 secured to one edge of the leaf or shelf 10.

Under normal conditions the slide 8 is located entirely within the body of the desk

with the leaf or shelf 2 hanging therefrom, the cleat 5 swung inwardly and laterally as in Figure 4, and the door 2 closed. When it is desired to use the typewriter the door is swung open into a plane parallel with the guide strips 5. Leaf 10 and slide 8 are then pulled outwardly until stopped by the lug 12 and the cross head 11. The outer end of the slide will move onto and be supported by the block 13 so as to be supported by the block and at the same time hold the door against swinging. The leaf or shelf 10 is then swung upwardly to a horizontal position, it being held elevated a sufficient distance to allow the cleat 15 to swing under the plate 16 to position within the door opening 3 and beneath the shelf or leaf 10. By then releasing the shelf it will rest on the cleat 15 and said cleat will be prevented by the plate 16 from swinging out of supporting position. This will be obvious by referring to Figures 2 and 3.

It is to be understood that if desired any suitable means can be connected to the door for limiting its outward swinging movement when it arrives in position for engagement by the slide.

What is claimed is:

The combination with a desk having a door opening, and a door hinged at one side of the opening, of a guide within the desk, a slide mounted thereon movable into and beyond the door opening cooperating means on the slide and door for supporting the slide and holding the door against swinging movement, a shelf hingedly connected to the slide, and means at the other side of the door opening and movable into and out of position in the opening for supporting the shelf in laterally extended position while within and beyond the opening.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

ROBERT M. MILLER.