

T. E. McNULTY.
 EXTENSION AND LIFTING LID FOR DESKS.
 APPLICATION FILED JULY 24, 1911.

1,061,194.

Patented May 6, 1913.

3 SHEETS—SHEET 1.

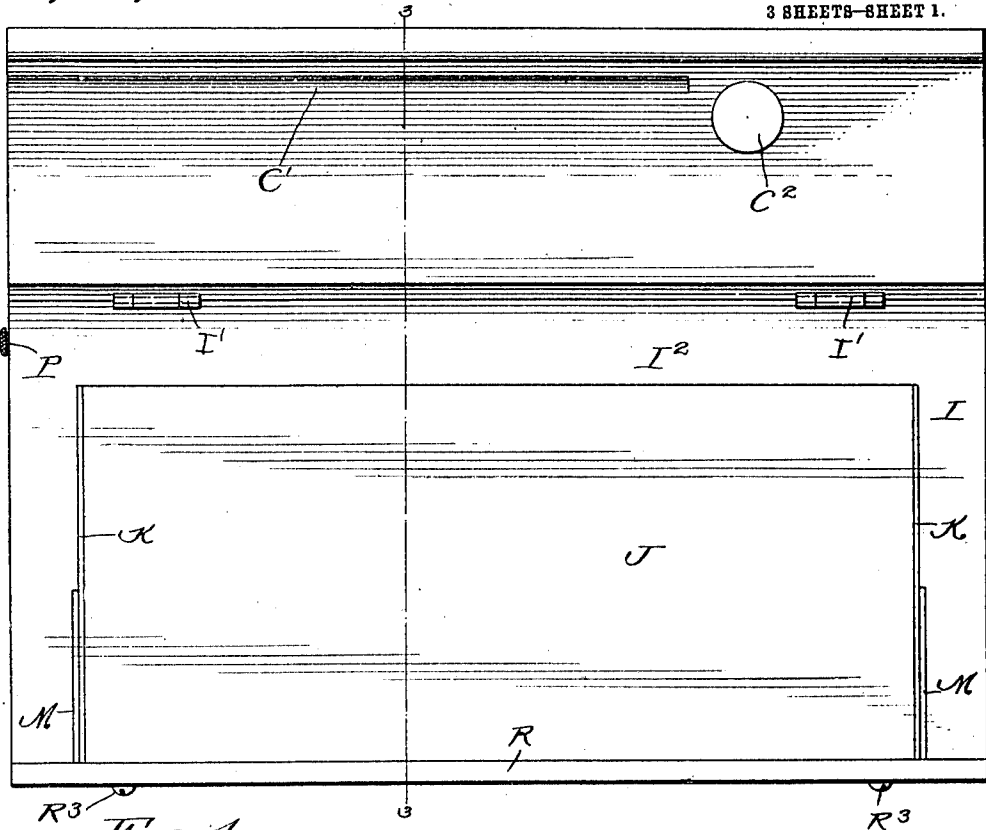


Fig. 1.

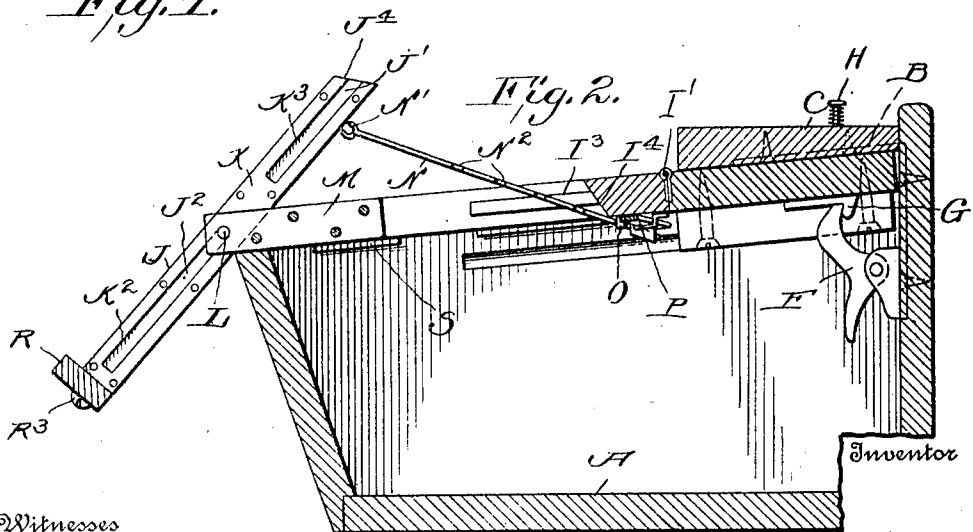


Fig. 2.

Witnesses

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E. B. McBath

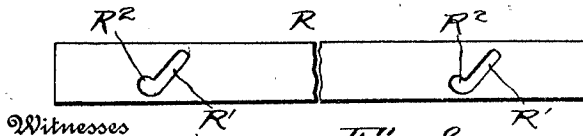
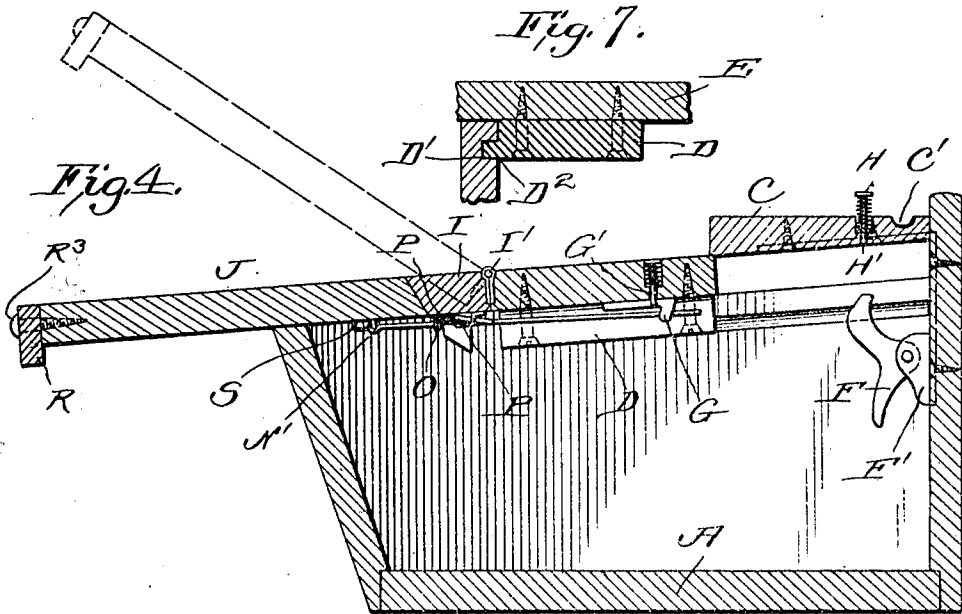
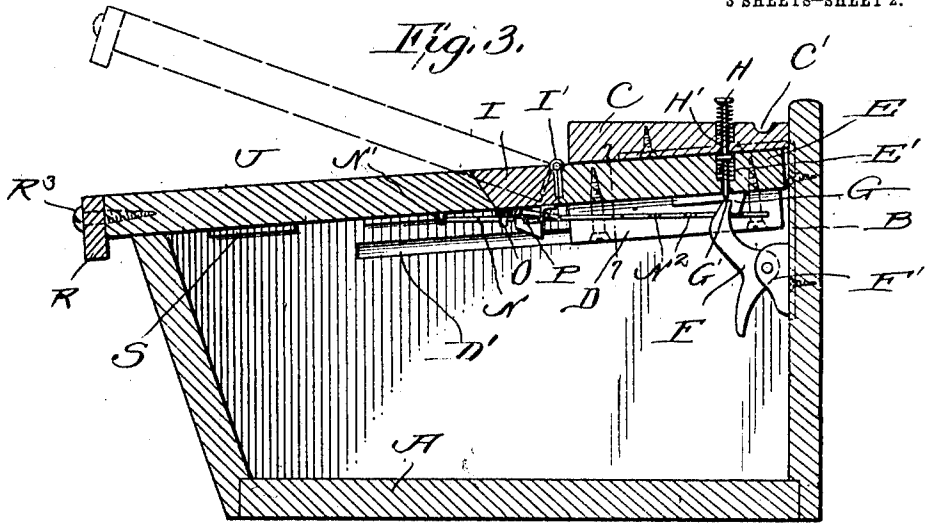
By *T. E. McNulty*
O'Meara & Brock Attorney

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3 SHEETS-SHEET 2.



Witnesses
Clara M. Wilson
E. B. M. Bath

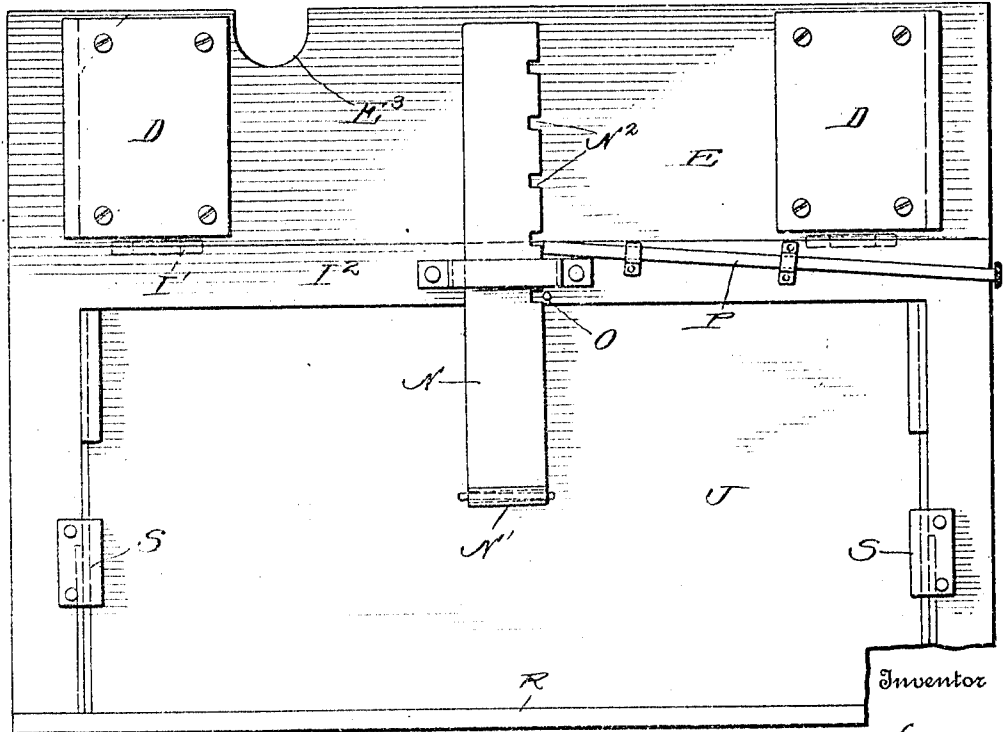
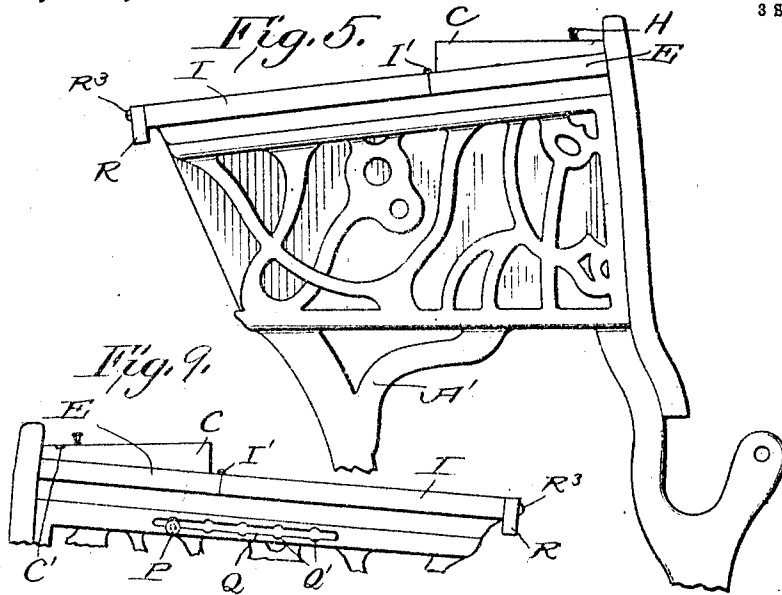
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3 SHEETS—SHEET 3.



Witnesses R3

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Fig. 6

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UNITED STATES PATENT OFFICE.

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EXTENSION AND LIFTING LID FOR DESKS.

1,061,194.

Specification of Letters Patent.

Patented May 6, 1913.

Application filed July 24, 1911. Serial No. 640,126.

To all whom it may concern:

Be it known that I, THOMAS E. McNULTY, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented a new and useful Improvement in Extension and Lifting Lids for Desks, of which the following is a specification.

This invention relates to extension and lifting lids for desks and more particularly for school desks, the object being to provide a desk top which is so constructed that the same can be drawn outwardly so as to increase the size of the same and in this position can be raised so as to reach the interior of the desk.

Another object of the invention is to provide a desk which is provided with a sectional top, the sections being removable with respect to each other so that the central outer section can be swung into an inclined position so as to form a drawing board.

Another object of the invention is to provide novel means for holding the lid or top in its normal position so that the lid can be swung upwardly as in the ordinary manner of opening a desk of this character now in use.

Another object of the invention is to provide means for locking the pivoted section of the desk with respect to the hinged section so that the inclination of the pivoted section can be adjusted when swung up into the position to be used as a drawing board.

With these various objects in view, my invention consists of the novel features of construction, combination and arrangement of parts hereinafter fully described, pointed out in the claims and shown in the accompanying drawings, in which,

Figure 1 is a top plan view of my improved desk. Fig. 2 is a transverse section showing the movable section swung into position to be used as a drawing board. Fig. 3 is a section taken on line 3—3 of Fig. 1. Fig. 4 is a transverse section showing the lid or top drawn outwardly so as to increase the size of the same and showing the lid raised so that the interior of the desk can be reached. Fig. 5 is a side elevation of my improved desk showing the lid or cover in its normal position. Fig. 6 is an inverted plan view of the top of lid. Fig. 7 is a detail section through a portion of the body of the desk and the slidable section. Fig. 8 is a detail side elevation of a portion

of the desk showing the locking rod and the manner of mounting the same. Fig. 9 is a detail end view of the drawing board section of the top showing the cleat at the end moved into position to form a stop.

In carrying out my improved invention, A indicates the body of my improved desk which is mounted on suitable legs A' as shown and secured to the back of the body of the desk is an angled bracket B which supports a fixed shelf C having a longitudinal pencil groove C' formed therein and an opening C² forming a socket to receive an ink well, said shelf having its under face beveled corresponding to the inclination of the upper edge of the body of the desk for the purpose hereinafter fully described. The sides of the desk are provided with grooves D' upon their inner faces in which extend the tongues D² of guide members D which are secured upon the underside of a slidable section E which is adapted to be normally held under the shelf C by a pivoted latch F mounted in a suitable bracket F' fixed to the back of the desk and adapted to engage a catch G secured to the underside of the slidable section E, said section being provided with a vertical bore E' upon which is slidably mounted a pin G' adapted to engage the latch F for throwing the same out of engagement with the catch G and it will be seen that when the section E is moved into the position shown in Fig. 3 the latch will engage the same and lock the section firmly in position. For operating the pin G I provide the shelf C with a spring actuated button H which is provided with a shank H' adapted to engage the pin G' and be pressed downwardly so as to force the pin G' into engagement with the latch so as to disengage the same from the catch.

Connected to the lower edge of the section E by hinges I' is the frame portion I of the lid of the desk which is provided with a central notch or cut out portion as clearly shown at I² having tongue portions I³ formed on its inner side edges as clearly shown which are adapted to co-act with grooves J' and the removable section J of the desk lid proper, said section being provided with a groove J² upon each side edge over which is secured a plate K which is provided with a bifurcated portion K² which extends over the groove J' and a slotted portion K³ which extends over the groove K² so as to protect the grooves J', J²

and slidably mounted within the groove J² is a pin L which is pivotally mounted within a bracket M countersunk in the adjacent side edges of the frame section I and it will be seen that by this manner of mounting the section J with respect to the frame section I, the section J can be moved with respect to the section I as will be hereinafter fully described. The inner edge of the notch I² of the section or frame I is beveled as clearly shown at I⁴ and the edge of the section J is beveled as shown at J⁴ so that when the sections are placed in the position shown in Fig. 1 the beveled edges of the respective sections will be brought into engagement and at the same time the tongues I³ will be forced in the grooves J' so as to hold the sections in their proper positions with respect to each other whereby the section or frame I can be swung upwardly as shown in dotted lines in Fig. 3 in order to reach the interior of the desk.

For holding the section J of the desk at the proper angle when the same is moved into position as shown in Fig. 2 I provide a flexible bar N which is pivotally connected to the section J as shown at N' and extends through a guide member O secured to the underside of the frame I and is provided with a series of notches N² in one side edge which is adapted to be engaged by a slidably mounted locking rod P which extends outwardly through a guide-way Q formed in the side of the body of the desk which is provided with cut out portions as clearly shown at Q' adapted to receive the locking rod P when the same is drawn outwardly with the lid of the desk and it will be seen that by disengaging the locking rod P from the flexible bar N the lid section J can be drawn outwardly until the tongues I³ of the section I are disengaged from the grooves J' and by pressing downwardly on the lid the same can be thrown up into the angle as clearly shown or any angle desired and by forcing the rod P inwardly it can be locked in that position.

Secured to the lower edge of the section J is a strip R which is provided with inclined grooves R' terminating in upwardly projecting sockets R² through which screws R³ are adapted to pass for securing the same to the section J and it will be seen that by this manner of mounting the strip R and by moving the same laterally so as to cause the screws to travel in the slots R' and then dropping the pins into the sockets R² the

strip can be locked up into the position shown in Fig. 1 so as to form a stop or cleat for the section J when the same is swung up into the position to be used as a drawing board.

The section E is provided with a notch E³ adapted to co-act with the ink well when moved into the position as shown in Figs. 1 and 3 and secured upon the frame I are cleats S which extend outwardly under the section J so as to form additional supporting means whereby all danger of the section J moving or yielding in any manner when being used as an ordinary desk is prevented.

From the foregoing description it will be seen that I have provided a desk lid which is formed of a plurality of sections one of which is slidably mounted with respect to the body of the desk and to which is pivotally connected a frame section forming a lid proper so that the same can be swung upwardly in order to reach the interior of the desk, said frame section carrying a slidable and movable section which is so mounted with respect to the frame section that the same can be thrown upwardly and locked into any angle desired so as to be used for drawing purposes.

What I claim is:—

1. The combination with a desk having a fixed upper horizontal portion, of a slidable section adapted to slide beneath said fixed portion, a catch carried by the rear of the desk and within the desk for the purpose of locking said slidable portion, in normal position, means working through the fixed portion and the slidable portion for disengaging said catch, a frame hinged to said slidable portion and adapted to swing upwardly and rearwardly and a pivoted section mounted in said frame and adapted to be swung downwardly and forwardly, and means for locking the pivoted section to the sides of the frame.

2. The combination with a desk body having a fixed shelf, of a sectional lid slidably mounted on said body and extending under said shelf, a catch carried by said lid, a latch carried by the body adapted to engage said catch, a pin carried by said lid for engaging said latch and a spring actuated button carried by the fixed shelf for engaging said pin.

THOMAS E. McNULTY.

Witnesses:

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