

(No Model.)

F. D. POOLEY.
DESK.

No. 510,705.

Patented Dec. 12, 1893.

Fig 1

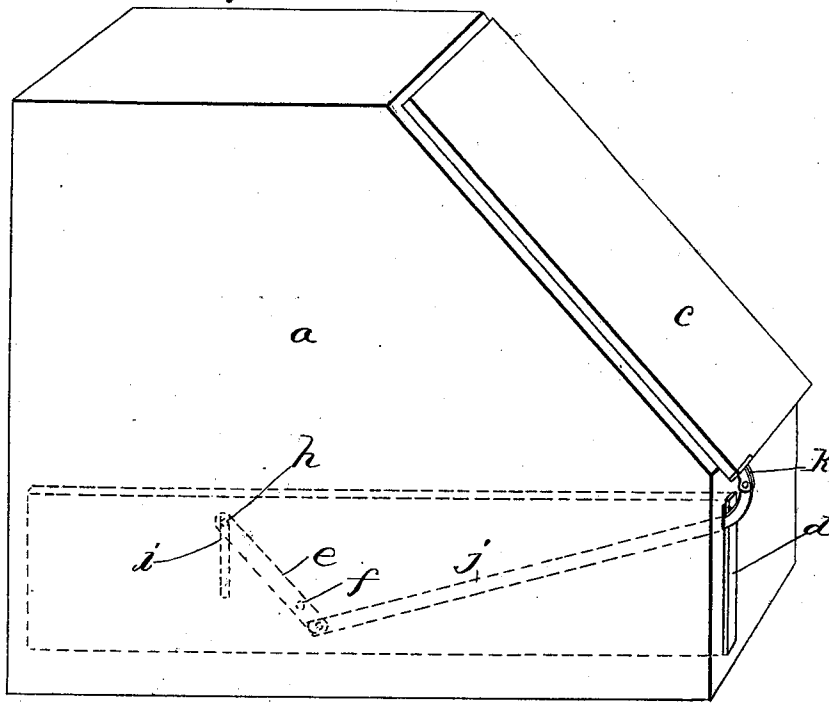
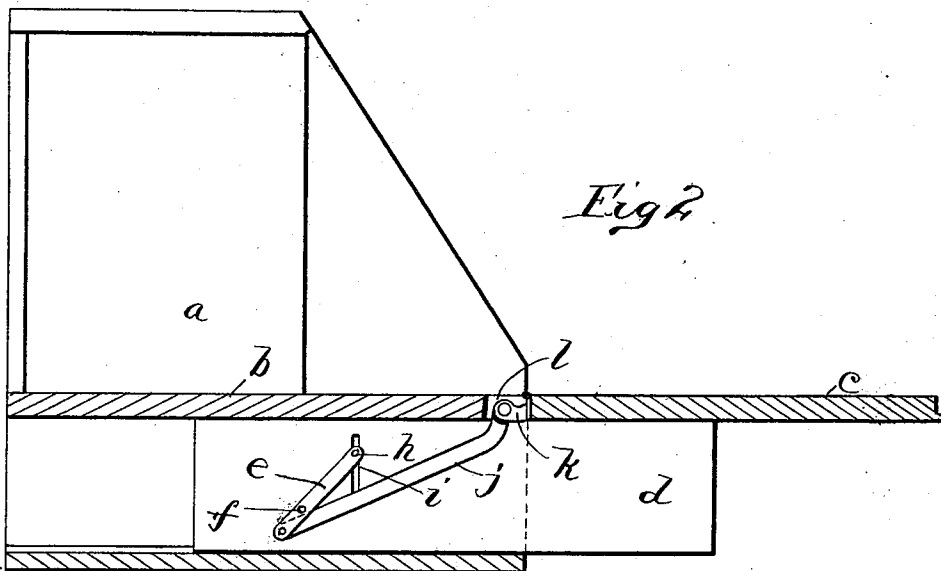


Fig 2



WITNESSES:

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INVENTOR

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UNITED STATES PATENT OFFICE.

FRANK D. POOLEY, OF PHILADELPHIA, PENNSYLVANIA.

DESK.

SPECIFICATION forming part of Letters Patent No. 510,705, dated December 12, 1893.

Application filed April 28, 1893. Serial No. 472,172. (No model.)

To all whom it may concern:

Be it known that I, FRANK D. POOLEY, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Desks; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

This invention relates to certain improvements in desks.

The object of the invention is to provide simple, durable and improved means for automatically operating the lid supports in conjunction with the lid.

A further object of the invention is to provide improved means for automatically operating the lid supports from the lid which shall be located entirely beneath the lid and desk shelf and entirely out of the way, so as not to interfere or offer any obstructions to the free use of the lid and desk shelf.

The invention consists in certain novel features of construction, and in combinations of parts fully described hereinafter and particularly pointed out in the claims.

Referring to the accompanying drawings:—Figure 1 is a perspective view of a desk provided with my improvement, the desk lid being shown raised. Fig. 2 is a side elevation of a desk with the lid lowered, the sides of the desk being removed to show the connections between the lid and the sliding support.

In the drawings, the reference letter *a*, indicates any desk having the desk shelf or top *b*, and the vertically swinging lid or cover *c*, at its inner edge hinged to the front edge of the desk shelf and arranged to swing to the horizontal or open position, or to the upright closed position against the top of the desk as shown in Fig. 1.

d, indicates the sliding supports, on which the lid rests when in the lowered position. These supports slide in suitable ways located beneath the desk shelf and they move through openings in the front of the desk and they are preferably located immediately at the inner surfaces of the sides of the desk.

Suitable connections are provided between the lid, and the supports to throw the supports out from beneath the lid when the lid is lowered, and to throw the supports in beneath the shelf and out of the way when the lid is raised. The connections, preferably, comprise vertically swinging lever *e*, a distance above its lower end, at *f*, pivoted or fulcrumed to the desk side, and at its free upper end suitably loosely connected to the support. This loose connection is preferably accomplished by means of a lateral stud or pin *h*, rigid with the upper end of the lever and projecting into a vertical slot *i*, in the support so that when the upper free end of the lever is swung toward the front of the desk the support will be thrown outwardly and the said pin will move down in the said slot, and when the lever is swung in the opposite direction, the opposite movement will be imparted to the support. This is obvious and clearly illustrated in the drawings. The lower end of this lever is suitably connected to the lid by means of the link *j*, which at its inner end is pivoted to the lower end of the lever at a point below the pivotal or fulcrum point of the lever. The outer and upper end of said link is pivotally joined to the inner edge of the lid, preferably, by means of a lug *k* having a plate countersunk in the edge of the lid and secured thereto by screws or the like, the upper end of the link being pivoted to the outer end of the lug as clearly illustrated. A recess or slot *l*, is formed in the front edge of the desk shelf to receive this lug on the edge of the lid when the lid is lowered. The outer end of the link is bent or curved upwardly as shown, so that when the lid is in a closed position, the link will curve up around the front edge of the desk shelf to the said lug as is clearly shown in Fig. 1. It will be observed that when the lid is closed, the upper free end of the lever is thrown back holding the support withdrawn within the desk, and when the lid is lowered the link will throw inwardly the lower end of the lever and thereby throw the upper end of the same outwardly and throw out the support beneath the lid. When the lid is raised this operation is reversed as the lower end of the lever is drawn outwardly thereby throwing the upper end thereof inwardly and draw-

ing in the support. It will be observed that the operating connections between the slides and lid are located entirely beneath the shelf and lid and thereby in no way interfere with the free use of the lid or shelf and offer no obstruction whatsoever. There are no slots or grooves formed in the upper surface of the desk to weaken the shelf or to catch dirt or other articles to prevent the proper operation of the parts where the obstructions are located on the desk shelf or lid. The construction is exceedingly simple, durable, and composed of a minimum number of parts.

It is evident that various changes might be made in the forms, constructions and arrangements of the parts described without departing from the spirit and scope of my invention. Hence I do not wish to limit myself to the exact construction herein set forth, but consider myself entitled to all such changes as fall within the spirit and scope of my invention.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. A desk having connections from the inner edge of the swinging desk lid extending down at the exterior of the desk and then into and beneath the desk shelf to a sliding support, an intermediate connection between the sliding support and said first mentioned connections located beneath the desk shelf, as and for the purposes set forth.

2. The combination in a desk, of a desk shelf, a vertically movable desk lid, a sliding support arranged beneath the shelf to support the lid, means substantially as described, arranged beneath the shelf to slide said support, and operating connections located partially at the exterior of the desk approximately below the plane of the shelf and extending beneath the shelf, and pivotally joining the lid and said means, substantially as described.

3. In a desk, the combination of the shelf, the vertically swinging desk lid, the sliding support, vertically swinging levers fulcrumed between their ends and at their upper ends loosely joined to the support to throw the

same, and links at their inner ends loosely joined to the lower end of said levers and having their outer ends bent upwardly, and pivotally joined to the inner edge of the lid in the manner and for the purposes set forth.

4. A lid desk having a lid support and provided with an opening through its front below the lid, and a link loosely joined to the lid at the exterior of the desk and extending through said opening beneath the shelf and connected to said support to operate the same, substantially as described.

5. In a desk, the combination of the desk shelf, the swinging lid, the sliding lid support, a vertically swinging lever located beneath said shelf and controlling the support, and operating connections from the lid extending down at the front of the desk, through the front and under the shelf to said lever, substantially as described.

6. In a desk, the combination of the swinging lid, the desk shelf, a sliding lid support, a stud secured to the inner portion of the lid, a link pivoted thereto at its outer end, said link being bent and extending down at the exterior of the desk and thence through the front of the desk and connected to operate the support from the lid.

7. In a lid desk, the combination of the sliding lid support, a vertically swinging lever fulcrumed between its ends and having its upper end arranged to engage the support to throw the same in and out and connections between the lower end of said lever and the lid, substantially as described.

8. A desk having a vertically swinging lid and provided with a vertically swinging lever pivoted in the desk and a link at its outer end pivotally joined to said lid and at its inner end pivotally joined to the lower portion of said lever.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

FRANK D. POOLEY.

Witnesses:

WILLIAM F. WAGNER,
EDWARD F. POOLEY.