(No Model.)

2 Sheets—Sheet 1.

F. W. HUTCHINS.

INKSTAND.

No. 307,392. Patented Oct. 28, 1884.

Fig. 1.

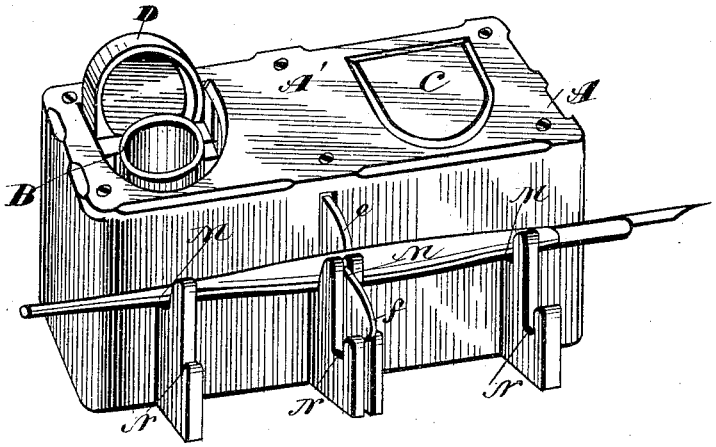
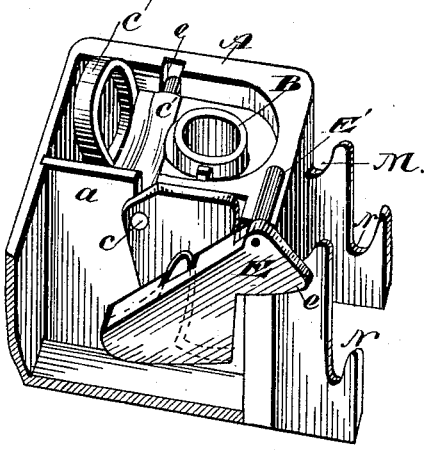


Fig. 2.



WITNESSES

Wm. M. Monroe.

Geo. W. Kins

INVENTOR

Francis W. Hutchins

by Leggett & Leggett.

Attorneys

(No Model.) 2 Sheets—Sheet 2.

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Fig. 3. Fig. 4.

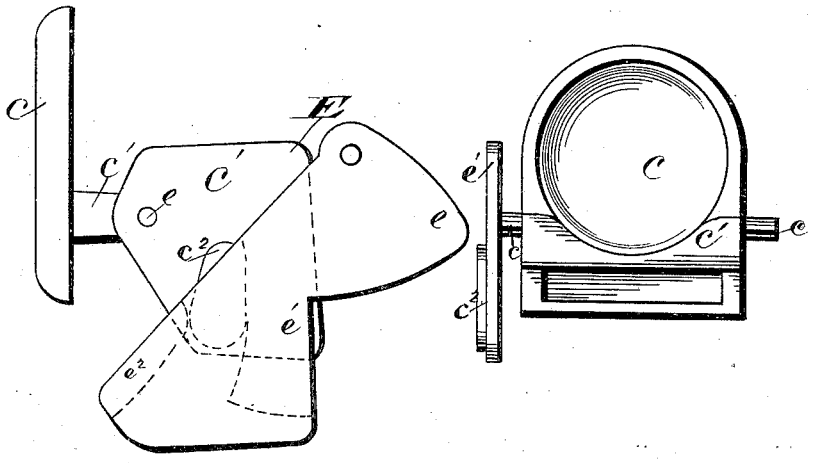


Fig. 5.

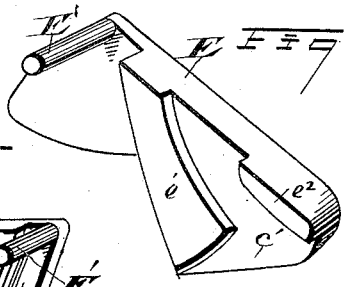


Fig. 6.

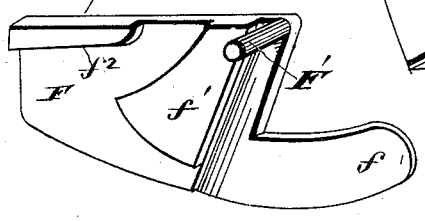
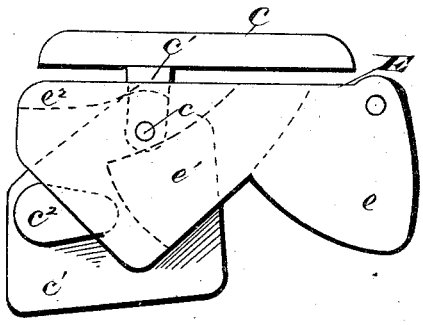


Fig. 7.



WITNESSES

Wm. M. Monroe.

Geo. W. King

INVENTOR

Frank W. Hutchins

by Leggett & Leggett.

Attorneys

UNITED STATES PATENT OFFICE.

FRANK W. HUTCHINS, OF WARREN, OHIO.

INKSTAND.

SPECIFICATION forming part of Letters Patent No. 307,392, dated October 28, 1884.

Application filed April 8, 1884. (No model.)

To all whom it may concern:

Be it known that I, FRANK W. HUTCHINS, of Warren, in the county of Trumbull and State of Ohio, have invented certain new and useful Improvements in Inkstands; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

My invention relates to improvements in inkstands, the object being to provide, preferably, a double inkstand with two ink-bottles and two sets of brackets or supports for pen-holders, and with a pivoted cover for each ink-bottle, and provided with such levers and actuating mechanism that the covers will automatically close when a pen-holder is laid in the support that is respectively connected therewith, and will automatically open when the pen-holder is removed.

With these objects in view my invention consists in certain features of construction and in combination of parts hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in perspective of my improved inkstand with a pen-holder in the upper support, and in consequence thereof the left-hand cover is closed. Fig. 2 is a view in perspective of the same, with portions of the outer wall broken away to show the internal construction. Fig. 3 is an end elevation of one of the covers and a side view of the attached arm by which the cover is operated. Fig. 4 is a front elevation of the same. Figs. 5 and 6 are views in perspective of the respective levers and attached cams that form a part of the mechanism. Fig. 7 is an elevation of the same parts shown in Fig. 3, but with the cover closed.

A represents the body of the device, that has preferably an open bottom for convenience in coring the structure, that consists, in addition to the outer walls, of the two cross-walls *a*, together with such lugs, ribs, or projections on the inside as are necessary to hold the ink-bottles B′ in their respective places next the front wall, and is provided with a removable top A′, that has openings, as shown. From the front of the part A project the brackets that form the rests *m* and *n* for the pen-holders. The covers C and D and their attached arms are alike, except they are made right and left handed, and a description of one will sufficiently illustrate the operation of both. As shown in Fig. 3, the cover C has a rib, C′, that extends beyond the cover on either side and terminates in pivotal ends *c*, that rest, respectively, in depressions in the outer wall and cross-partition *a*. The inner pivotal end projects beyond the partition, and has attached the arm *c′*, the flat side of which is close to the partition, and has on the opposite side the laterally-projecting lug c^2. The center of the gravity in the cover in its upright position is some little distance back of its axis, and will maintain the cover in this position, although partially counterbalanced by the arm *c′*, the top part of which butts against the part A′ and acts as a stop.

E and F are levers made right and left handed, and when in position have the flat sides next to each other, with the attached rods E′ and F′ extended in either direction and journaled in a depression on the front wall of the part A, and form fulcrums for the respective levers. The lever E has the part *e*, and the lever F the part *f*, that project through a slot in the front wall, the latter being located lower and farther from its fulcrum than the former, so that these two parts engage, respectively, pen-holders in the upper and lower rests. On one side of the long and inwardly-projecting ends of these levers are respectively attached the laterally-projecting lugs *e′* and e^2 and *f′* and f^2, that engage the lugs on the arms of the covers and act as cams. The relative position of the lever E with the arm *c′* when the cover C is raised is shown in dotted lines in Fig. 3. The relative position of this part when the cover is closed is shown in Fig. 7.

The operation of the device is as follows: When one of the covers—for instance, the cover C—is raised, if a pen-holder is laid in the upper rest, the part *e* is pressed downward and backward, causing the cam *e′* to press back on the lug c^2, causing it to move backward and downward until the cover is closed. The relation of parts is such that this occurs before the part *e* is out of the way of the pen-holder, and just as the extreme throw of the

cam e' is reached. The end of the cam e' therefore passes by the lug c^2 more or less, according to the size of the pen-holder, and locking the cover in its closed position, as shown in Fig. 7. When the pen-holder is removed, the weight of the inner end of the lever causes the lug e^2 to press on the lug c^2, by means of which the cover is raised until its center of gravity is past its axis, after which, by its own gravity, the cover moves back into the arm c', striking the part A', as aforesaid, and the parts are again in the position shown in Fig. 3. The action of the cover D, and the lever F and the attachments are the same as just described.

It is convenient to have two kinds of ink—for instance, red and black—and a pen and holder for each in the proper rests. When either pen is taken, the cover of the ink-bottle to which this pen belongs is instantly raised, and closed again when the pen is returned to its place, so that there is no liability of mistake, and the ink-bottles remain closed when not in use, excluding the dust. Of course an inkstand may be made with but one ink-bottle, cover, and attachment and one pen-holder rest; or any desired number of ink-bottles may be had in one inkstand by simply duplicating the mechanism described. The laterally-projecting lugs and cams on the respective arms and levers, as aforesaid, are not essential, as equivalent mechanism may be had by means of teeth and depressions that do not project laterally, and such devices would evidently be within the scope and spirit of my invention.

What I claim is—

1. An inkstand provided with one or more bottles or wells, a hinged or pivoted cover for each bottle, a rest or support for the pen, a lever pivoted to the stand and resting in close proximity to the pen-support, and devices, substantially as described, connecting said lever and cover.

2. The combination, with an inkstand, an ink bottle or well, a cover pivoted to said inkstand, the center of gravity of said cover when the latter is in a vertical position being some distance back of the axis thereof, and a combined balance-arm and stop connected to said cover, of a lever situated in close proximity to the pen-support of the inkstand, and operating substantially in the manner set forth.

3. In an inkstand, the combination, with a cover pivoted as aforesaid, and provided with a balance-arm having a laterally-projecting lug, of a lever situated in close proximity to the pen-support of the stand, and a lever provided with a cam for engaging the lug on said arm, the parts being constructed and combined, substantially as described, so that when the cover is closed the end of the cam engages the lug and locks the cover and leaves the lever free to move more or less, according to the size of the holder, substantially as set forth.

In testimony whereof I sign this specification, in the presence of two witnesses, this 2d day of April, 1884.

FRANK W. HUTCHINS.

Witnesses:
JOHN M. STULL,
ROBT. T. IZANT.