(No Model.) 2 Sheets—Sheet 1.

E. B. NOURSE.

INK WELL.

No. 589,977. Patented Sept. 14, 1897.

Fig. 1.

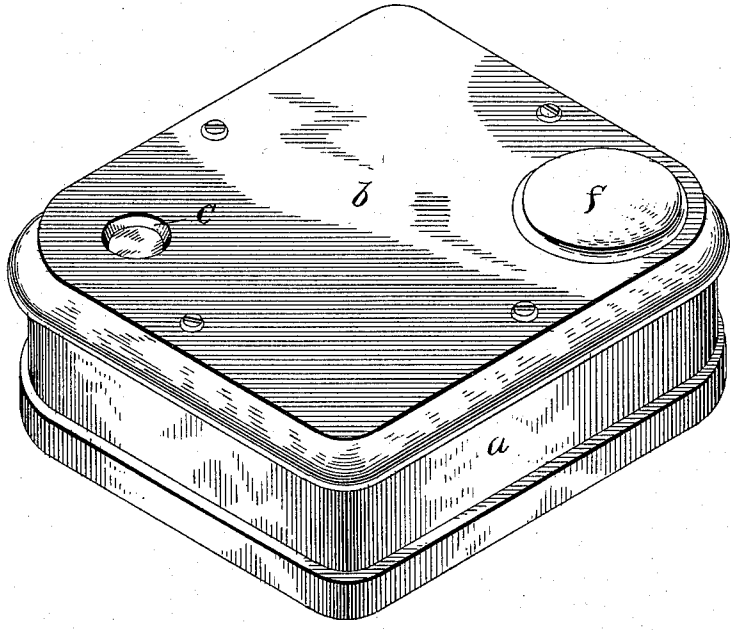


Fig. 2.

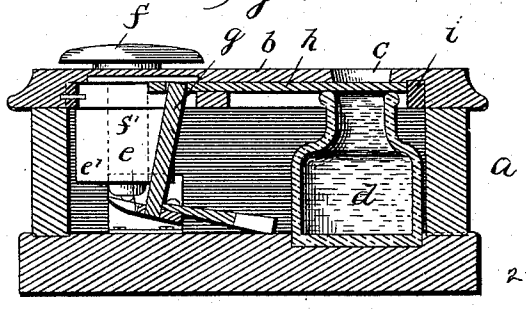
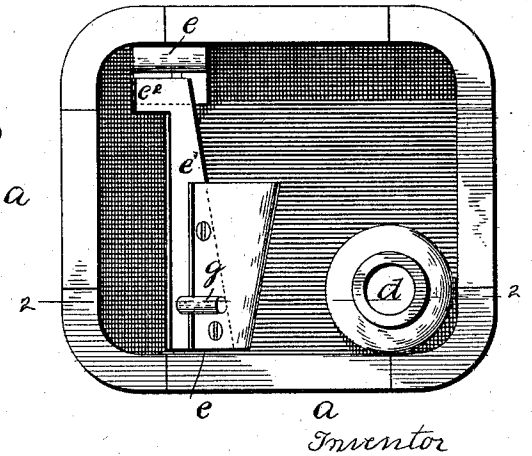


Fig. 3.



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(No Model.) 2 Sheets—Sheet 2.

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Fig. 4.

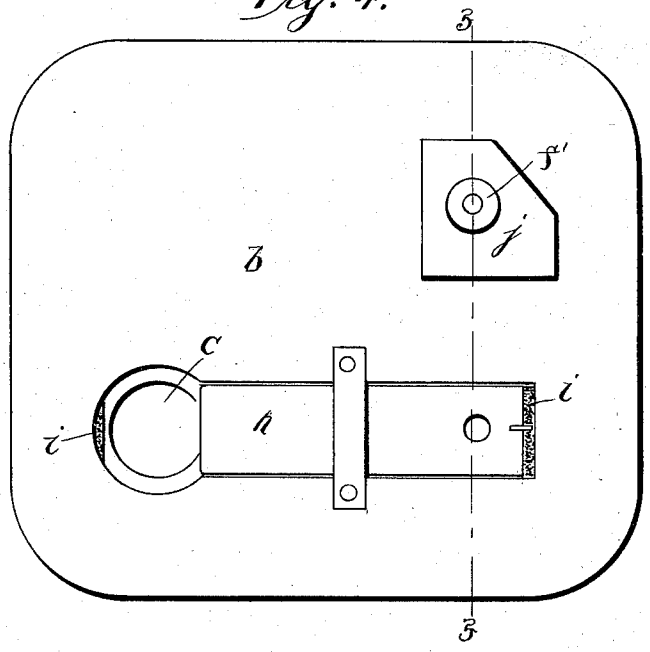


Fig. 5

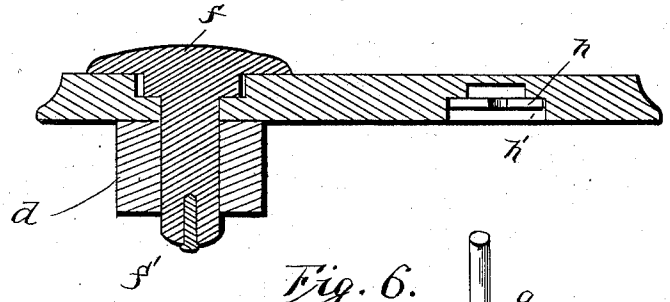
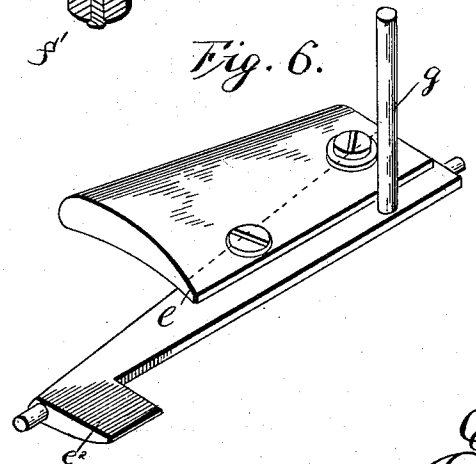


Fig. 6.



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UNITED STATES PATENT OFFICE.

EARL B. NOURSE, OF CLINTON, INDIANA.

INK-WELL.

SPECIFICATION forming part of Letters Patent No. 589,977, dated September 14, 1897.

Application filed January 22, 1897. Serial No. 620,213. (No model.)

To all whom it may concern:

Be it known that I, EARL B. NOURSE, of Clinton, in the county of Vermilion and State of Indiana, have invented certain new and useful Improvements in Ink-Wells; 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 new and useful improvements in self-closing ink-wells, and has for its object simplicity, durability, and cheapness in construction, and composed of a minimum number of parts.

A further object of the invention is to provide means for keeping the ink-well closed and only open when and long enough to allow the pen to be inserted and withdrawn. This is accomplished with no additional trouble or labor to the writer, but merely by the natural movement of the hand and a moment's rest on the casing of the well.

A further object of the invention is to provide extremely simple mechanism with a direct and instantaneous action.

Another object is the provision of cushions or pads to insure a soft, easy, and noiseless opening and closing of the well.

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

Referring to the accompanying drawings, Figure 1 is a perspective view, the well being closed. Fig. 2 is a sectional view taken on the line 2 2, Fig. 3; and Fig. 3 is a top plan view, the top being removed. Fig. 4 is an inverted view of the top removed. Fig. 5 is a section on the line 3 3, Fig. 4; and Fig. 6 is a perspective view of the rock-shaft.

In the drawings, *a* is the box or casing, having the removable top *b* suitably secured thereon. *c* is the mouth or opening in the top directly over and communicating with the ink bottle or well *d*, securely held within the box or casing.

On the bottom at or near two opposite walls are bearings *e*, and mounted in the bearings is a weighted rock-shaft *e'*, having the lug or ear e^2 near one end to receive the pressure of the button *f*, located on the top of the box or casing and having a shank or stem *f'* extending downwardly through the top *b* and resting on the lug or ear e^2.

Near the other and weighted end of the rock-shaft *e'* and at right angles to the lug or ear e^2 is a post or bar *g*, extending upwardly and loosely engaging and operating the sliding plate or cover *h*, which is movably confined in suitable guideways *h'*, formed in the under side of the cover *b*, directly over the ink bottle or well *d*.

i indicates the cushions or pads of any suitable material to take up the jar and prevent noise which would likely arise from the motion of the sliding plate or cover *h*.

j is a block attached to the under side of the lid, through which the shank or stem *f'* of the button *f* passes a guide therefor.

The simplicity, accuracy, and direct and quick action is obvious. The moment the weight of the hand is felt by the button the tension of the weight is overcome and the slide begins to move.

In operation the well is normally closed. When the pen is desired to be replenished with ink, the natural motion of the hand carrying the pen will cause it to come in contact with the button *f*, pressing it down, overcoming the tension of the weight by forcing the shank or stem *f'* against the lug or ear e^2 of the rock-shaft *e'*, raising the weight and throwing the sliding plate or lid *h* back by means of the post or bar *g* against the pad or cushion *i*, leaving free passage for the pen through the opening *c* into the bottle or well *d*.

As soon as the pen has been filled and the hand removed from the button the weight takes effect on the rock-shaft, raising the button by means of the lug or ear and the shank or stem. The post or bar at right angles to the lug or ear is thrown forward, forcing the sliding plate over the mouth of the bottle or well and under the opening in the top of the casing, and is received without noise or vibration by the cushion in the ends of the guideway in the under side of the top of the casing.

It is evident that various slight changes might be made in the forms, construction,

and arrangement 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 that fall within the spirit and scope of my invention.

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

1. A self-closing ink-well or the like comprising the box or casing, an ink-well or bottle therein, an opening in the top of said casing registering with said bottle, a sliding cover for said bottle, a weight-actuated rock-shaft loosely connected to said cover and a push-button adapted to operate said rock-shaft and sliding cover substantially as described.

2. A self-closing ink-well having a casing, a bottle or well therein, a removable cover on said casing an opening in said casing registering with said bottle, a way or guide in the under side of said top, a sliding plate or cover working in said way, a weight-actuated rock-shaft carrying a post loosely engaging said sliding plate or cover and cushions in the end of said way for the purpose set forth.

3. A self-closing ink-well comprising the casing having a removable top, an opening in said top registering with a bottle within said casing, a button having a shank or stem passing through said top, a guide for said stem, a rock-shaft having bearings, a weight controlling said rock-shaft, a post or bar carried by said rock-shaft, a sliding plate or cover operated by said post, cushioned way in the cover for said sliding plate, and a lug or ear on said rock-shaft to receive the pressure from the button substantially as described.

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

EARL B. NOURSE.

Witnesses:
PLATT. Z. ANDERSON,
JAMES H. WILSON.