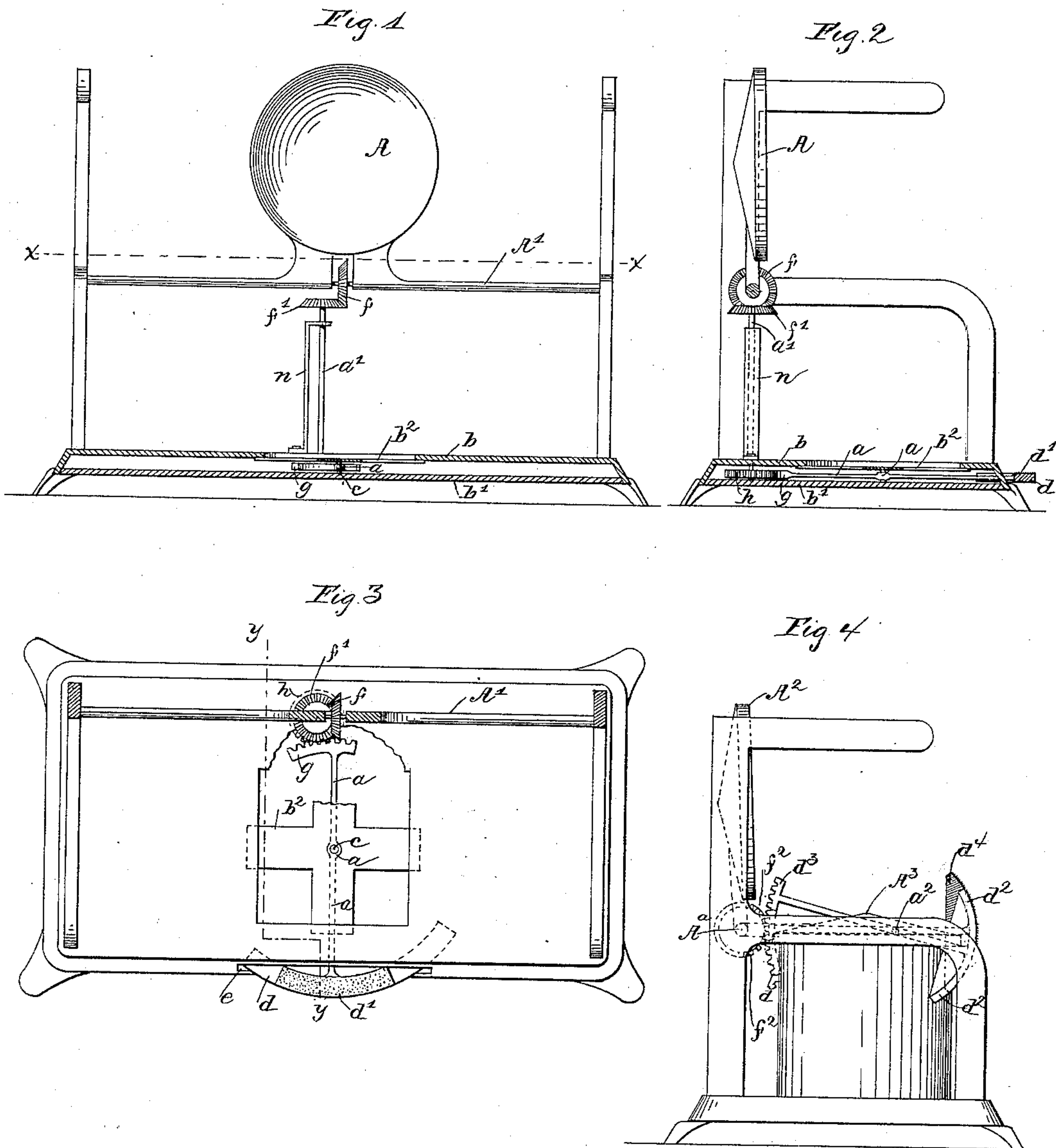


(No Model.)

F. V. FLETCHER.
INKSTAND.

No. 435,035.

Patented Aug. 26, 1890.



Witnesses
V. T. Wilson
Chas. B. Miller

Inventor
Frederick V. Fletcher
By his Attorney
Walter K. Griffin

UNITED STATES PATENT OFFICE.

FREDERICK V. FLETCHER, OF NEW YORK, N. Y.

INKSTAND.

SPECIFICATION forming part of Letters Patent No. 435,035, dated August 26, 1890.

Application filed October 16, 1889. Serial No. 327,186. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK V. FLETCHER, of the city, county, and State of New York, have invented a new and useful Improvement in Inkstands, of which the following is a specification.

My invention has for its object a ready means of opening the lid or cover of an inkstand, ink well or bottle, or similar apparatus; and it consists in an arrangement of suitable levers, &c., connected to the lid or cover and operated to open or close the lid by a slight pressure, most conveniently applied by the pen used in writing, upon naturally wiping or cleansing the pen. This arrangement can be applied to a stand separate from the bottle, so as to be used with any bottle to which the stand is applicable, or it can be attached permanently to any required well or bottle.

The accompanying drawings show the details of the mechanism.

Figure 1 is a front elevation, a portion of the stand being removed. Fig. 2 is a vertical section through the line *y y*. Fig. 3 is a plan view, the upper portion of the stand and lid being removed, as shown by the line *x x* in Fig. 1. Fig. 4 is an end elevation of a modified form of the invention applied to a stand containing two ink-wells.

Similar letters indicate corresponding parts.

In Fig. 1, *A* designates a lid of an inkstand.

A' is the shaft on which the lid is fastened.

b is the upper floor of the stand.

b' is the lower floor or bottom.

c is a pin placed between *b'* and *b* and solidly attached to the lever *a*.

d (shown in Figs. 2 and 3) is a piece of metal or other material fully covered with bristles, cloth, or any other substance that might be used for wiping a pen. *d'* represents the part of *d* so covered.

g is a segment cog-wheel engaging in the horizontal wheel *h*, which wheel is fastened to the upright shaft *a'*, at the other end of which is the horizontal bevel-wheel *f'*, which engages with the vertical bevel-wheel *f*, which is fastened to the shaft *A'*.

n is a standard supporting the shaft *a'*.

A slight pressure of a pen against the part *d'* (such pressure as would be made in the act of wiping a pen) serves to open or close

the lid *A*, according to the direction in which the pressure is exerted.

The mode of operation is as follows: In Figs. 1, 2, and 3 a horizontal pressure of the pen on the part *d'* causes the lever *d g*, consisting of the part *d*, with its connected gear *g*, to move to the right or to the left, according to the direction of the pressure, and this movement, by the engagement of *g* with the horizontal gear-wheel *h*, causes, by means of the shaft *a'*, the movement of the connected gears *f'* and *f*, and so the opening or closing of the lid.

In the modification shown in Fig. 4 the lever *d⁴* is at the side of the inkstand, and the opening and closing of the lid are effected by a vertical up-and-down movement of *d⁴*, caused by suitable vertical pressure of the pen on *d⁴*. It is thus seen that the apparatus is adapted both to open and to close the lid.

In Fig. 4, *A²* and *A³* designate the two lids of two ink-wells in a double stand, *A²* being the nearest. *d⁴* is a part corresponding to *d'* and *d*, Figs. 2 and 3, and pivoted by the pivot *a²*. *d³* is a cog-segment engaging in a vertical cog-wheel *f²*, thus opening or closing the lid. *d⁵* is the cog-segment used for the farther ink-well, and *d⁴* is the part corresponding to *d²*. The near well is shown open and the farther one closed.

It is not absolutely essential that the parts which effect the opening or closing of an ink-bottle or ink-well shall be attached to an inkstand of metal or other material. The parts may be attached directly to the ink bottle or well itself by making the bottle or well with two bottoms corresponding with the parts *b'* and *b*, or by attaching the parts shown in Fig. 4 to the side of the ink-bottle or ink-well instead of the sides of the stand. In such arrangements the lid would be fastened to a shaft moving in ears or bearings, one ear or bearing being placed at each side of the back of the ink bottle or well.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination, with the lid or cover of an ink stand or bottle, of the double-acting continuous series of levers or connections communicating with the lid and the pivoted lever *d g*, said lever *d g* being made to oper-

ate by pressure both to open and to close the lid, substantially as described.

2. In an apparatus for opening and closing the lid or cover for an ink stand or bottle, the
5 pen-wiper attached to the actuating-lever or cog-wheel, substantially as described.

3. The combination, with the lid or cover of an ink stand or bottle, of the series of continuous double-acting opening and closing
10 levers and connections A' , f , f' , a' , h , g , and d , substantially as described.

4. The pivoted double-acting lever d g , connected continuously with the lid or cover of an ink stand or bottle, said lever being made

to operate by pressure both to open and to
close the lid, substantially as described.

5. In an apparatus for both opening and closing the lid of an ink stand or bottle, the combination of the pivoted double-acting lever
15 d , segment cog-wheel g , horizontal cog-wheel
 h , shaft a' , beveled cog-wheel f' , vertical cog-wheel f , and shaft A' with the lid or cover, substantially as described.

FREDERICK V. FLETCHER.

Witnesses:

CHAS. B. MILLER,

WALTER K. GRIFFIN.