

(No Model.)

J. R. DRONEY.  
INKSTAND.

No. 421,126.

Patented Feb. 11, 1890.

Fig. 1.

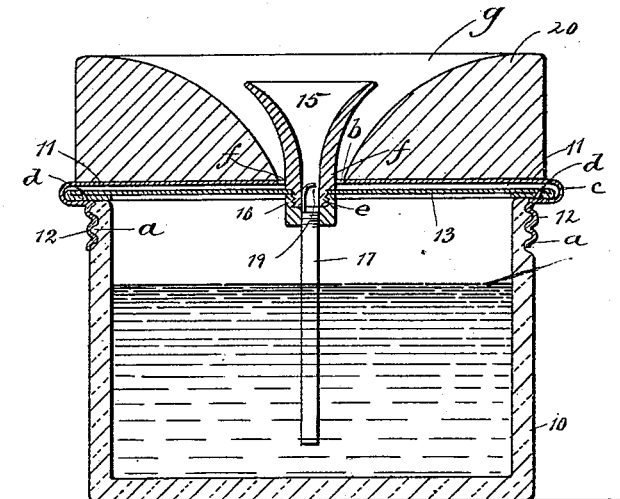


Fig. 2.

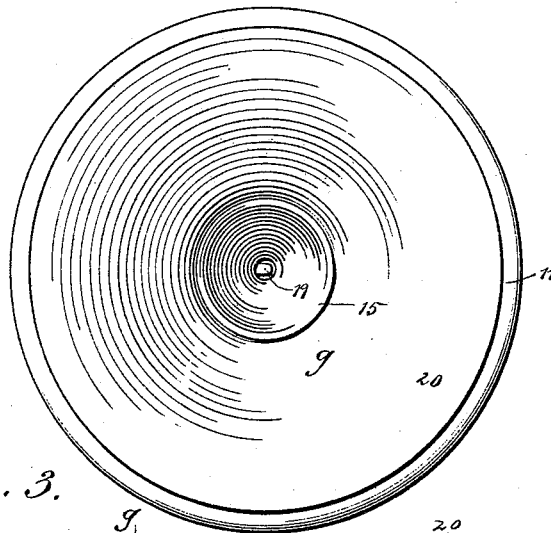
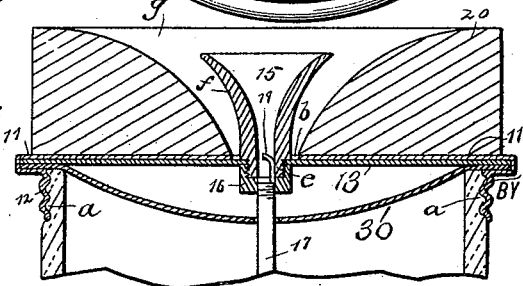


Fig. 3.



**WITNESSES:**

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# UNITED STATES PATENT OFFICE.

JOHN R. DRONEY, OF KANE, PENNSYLVANIA.

## INKSTAND.

SPECIFICATION forming part of Letters Patent No. 421,126, dated February 11, 1890.

Application filed May 11, 1889. Serial No. 310,362. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN R. DRONEY, of Kane, in the county of McKean and State of Pennsylvania, have invented a new and Improved Inkstand, of which the following is a full, clear, and exact description.

This invention relates to inkstands, the object of the invention being to provide an inkstand wherein the parts shall be so arranged that the placing of the pen within the delivery-funnel and the consequent depression of said funnel will act to force a supply of ink upward within the funnel, the ink within the well being practically sealed and cut off from communication with the surrounding atmosphere, whereby evaporation and the consequent thickening of the ink are prevented.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures and letters of reference indicate corresponding parts in all the views.

Figure 1 is a central cross-sectional elevation of my improved inkstand. Fig. 2 is a plan view thereof, and Fig. 3 is a central cross-sectional view of a modified construction.

Referring to the construction shown in Fig. 1, 10 represents an ink-well that is formed with a screw-thread *a* in its peripheral face and near the upper edge thereof. The cap or cover of the ink-well is made up of a plate 11, that is centrally apertured, as shown at *b*, and bent to form an annular recess *c*. A circular flange 12 extends downward from the inner edge of the lower wall of the recess *c*, said flange being spirally grooved to fit upon the thread *a* of the wall 10.

The inwardly bent portion of the plate 11, which constitutes the lower wall of the recess *c*, is provided with a number of upwardly and outwardly extending points *d*, upon which there is caught a rubber diaphragm 13, said diaphragm being preferably overlapped at the edge, as represented. This diaphragm 13 is centrally apertured to provide for the passage of a threaded neck *e*, that is formed at the lower end of a delivery-funnel 15, the threaded neck *e* of the funnel 15 engaging an internally-threaded and centrally-apertured

block 16, which serves as a support for a downwardly-extending tube 17, the diaphragm being clamped between the upper face of the block 16 and a shoulder *f*, formed on the funnel 15. The plate 11 carries a block 20, formed with a central cavity *g*, within which the funnel 15 rides.

The ink is placed within the well 10, and the parts are adjusted as represented in the drawings, and from the construction described it will be understood that the ink will be practically sealed, communication with the surrounding atmosphere being established only through the medium of the tube 17, the arrangement being such that when the pen is dipped within the funnel and the funnel slightly depressed the diaphragm will be carried downward and a portion of the ink within the well 10 will be forced through the tube 17 and into the funnel 15, the ink dropping back into the well the moment the pressure upon the funnel is relaxed.

In order that the ink may be prevented from spouting upward, I form the tube 17 with an upwardly-extending lip 19, the end of said lip being bent over so as to practically close the passage through the bore of the funnel 15, this bent-over section of the lip acting as a deflecting-plate and preventing the upward gushing of the ink.

In Fig. 3 I illustrate a modified construction, wherein there is arranged a concave plate 30, which has a surrounding flange that rests on the upper edge of the ink-well, and upon the flange of the plate 30 the edge of the diaphragm 13 rests, such diaphragm edge being clamped between the plates 11 and 30, as shown. The plate 30 is centrally apertured to provide for the passage of the tube 17.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with an ink well, of a diaphragm held thereto, a funnel and tube carried by the diaphragm, and a deflecting-plate arranged within the funnel, substantially as described.

2. The combination, with an ink-well, of a plate 11, formed with an annular recess *c* and with a grooved flange 12, the grooves of the

flange being adapted to fit a screw-thread formed upon the ink-well, points or spurs *d*, a diaphragm which engages said points or spurs, and a funnel and tube carried by the diaphragm, substantially as described.

5 3. The combination, with an ink-well, of a plate 11, a recessed block 20, carried by the plate, a grooved flange 12, which extends downward from the plate and is arranged to

engage a screw-thread formed on the ink- 10 well, a diaphragm held below the plate, a funnel and tube carried by the diaphragm, and a deflecting-plate arranged within the funnel-bore, substantially as described.

JOHN R. DRONEY.

Witnesses:

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J. L. MITCHELL.