

(No Model.)

C. H. GARDNER.
INKSTAND.

No. 567,383.

Patented Sept. 8, 1896.

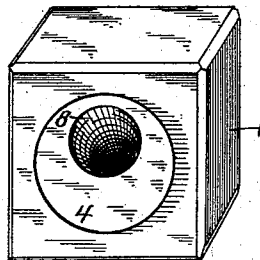
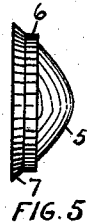
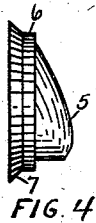


FIG. 1

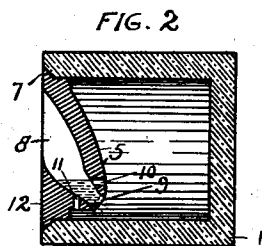


FIG. 2

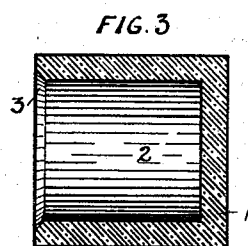


FIG. 3

WITNESSES:

Laura J. Whitcomb
S. H. Pull.

INVENTOR

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UNITED STATES PATENT OFFICE.

CHARLES H. GARDNER, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO
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INKSTAND.

SPECIFICATION forming part of Letters Patent No. 567,383, dated September 8, 1896.

Application filed May 11, 1896. Serial No. 590,979. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. GARDNER, a citizen of the United States, residing in the city of Philadelphia, State of Pennsylvania, have invented certain new and useful Improvements in Inkstands, of which the following is a specification.

My invention is a new form of siphon inkstand, designed to be simple and attractive in construction, readily filled, easy of access, and always open, while at the same time dust-proof, minimizing the loss and damage due to evaporation and spilling, and permitting the ready consumption of all the ink in the well.

My invention is illustrated in the accompanying drawings, in which—

Figure 1 is a front view in perspective; Fig. 2, a vertical central section; Fig. 3, a vertical central section with the plug removed; Fig. 4, a side view, and Fig. 5 a top view, of the plug.

The stand 1 is provided with a well 2, preferably of cylindrical form, and having an opening 3, designed to be closed and hermetically sealed by a plug 4, of hard rubber or other suitable material. The stand may be made of cut or pressed glass, or of any suitable material and construction.

The plug 4 comprises in its structure a nipple 5, which extends into and to a point near the bottom of the well 2, a cylindrical section 6, and a flange of suitable form, as 7, which closely fit and hermetically seal the opening 3 of the well. The face 12 of the plug lies in a vertical plane by preference coincident with the face of the well and contains the mouth of the cistern 8, which communicates with the well 2 through the feed-orifice 9 at the apex of the nipple and near the bottom of the well. Vents 10 and 11 also afford communication between the cistern and the well. These three orifices or vents are best placed so that no one of their axes lies within the mouth of the cistern, the object of which arrangement being to prevent the ink from spurting out where there may be a tendency to do so as the result of a heavy jar.

The specific function of the vent 10 is to gage or provide for a sufficient depth of ink in the bottom of the cistern, for the ink will

rise to the level of this vent, and to avoid the necessity of making the orifice 9 large. The specific function of the vent 11 is to permit the escape of air from the well when the latter is being filled, which is accomplished by turning the stand over so as to bring the mouth of the cistern into a horizontal plane and then pouring the ink into the cistern, the funnel shape of which facilitates filling.

It will be evident that the column of fluid in the well will be sustained by the pressure of the atmosphere upon the surface of the ink in the cistern, since all communication between the well and the atmosphere, excepting through the orifices 9, 10, and 11, is cut off.

The simplicity and attractive appearance of the stand and the readiness with which it may be filled are apparent; and since the entrance to the cistern is in line with the writer, it is more ready of access than the usual horizontal dipping-opening. As the mouth of the cistern lies in a vertical plane, the cistern is protected from settling dust, and clotting of the ink is thus obviated. The surface of ink in the cistern is so slight that loss from evaporation is reduced to a minimum and the stand may be turned to any position without spilling more than the small quantity of ink in the cistern. The ink as it approaches the bottom of the well in consumption is as readily accessible as when the well is full, and if it is desired to clean the interior of the well the plug may easily be removed and again inserted.

It will be understood that minor changes may be made without departing from the spirit of my invention, and I wish to be understood as not limiting myself to the specific construction shown and described.

I claim as my invention—

1. In combination with an inkstand, a plug, a siphon-cistern located in the plug and having its mouth in a vertical plane, substantially as shown and described.

2. In an inkstand, in combination, a horizontal opening, a plug adapted to close the opening, a siphon-cistern located in the plug and having its mouth located in a vertical plane, and a feed-orifice and an air-vent in

the bottom of the cistern, substantially as shown and described.

3. In an inkstand, in combination, a horizontal opening, a plug adapted to close the opening, a siphon-cistern in the plug and having its mouth in a vertical plane, a feed-orifice and a gage-vent, substantially as shown and described.

4. In combination with an inkstand, a plug provided with a siphon-cistern, a feed-orifice, an air-vent and a gage-vent, substantially as shown and described.

CHARLES H. GARDNER.

Witnesses:

CHARLES N. BUTLER,
GEORGE HOUSE.