

A. F. HURD.
GAGEABLE DIP CUP FOR INK WELLS.
APPLICATION FILED MAY 25, 1910.

999,168.

Patented July 25, 1911.

Fig. 1.

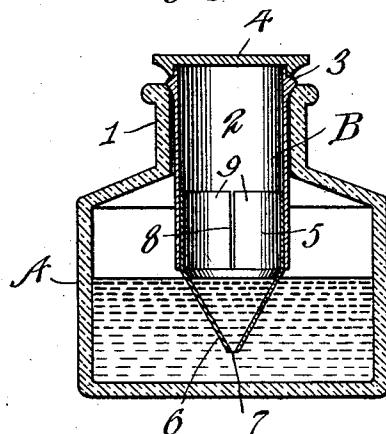


Fig. 2.

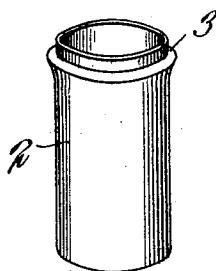
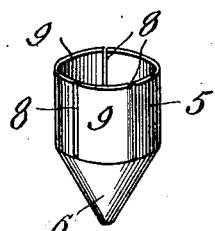


Fig. 3.



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GAGEABLE DIP-CUP FOR INK-WELLS.

999,168.

Specification of Letters Patent. Patented July 25, 1911.

Application filed May 25, 1910. Serial No. 563,331.

To all whom it may concern:

Be it known that I, ALBERT F. HURD, a citizen of the United States, residing at Berkeley, in the county of Alameda and State of California, have invented new and useful Improvements in Gageable Dip-Cups for Ink-WellS, of which the following is a specification.

This invention relates to a dip cup for ink wells or bottles and the principal object of the invention is the provision of an extremely simple, inexpensive, and practical dip cup which can be applied to ordinary ink bottles or wells for the purpose of preventing the pen from being inserted too far into the ink so that soiling of the fingers is obviated.

Another object of the invention is the provision of an improved gageable dip cup which can be adjusted from time to time as the level of the ink in the bottle lowers.

With these objects in view, and others, as will appear as the description proceeds, the invention comprises the various novel features of construction and arrangement of parts which will be more fully described hereinafter and set forth with particularity in the claims appended hereto.

In the accompanying drawing, which illustrates one embodiment of the invention:—Figure 1 is a central vertical section of an ink bottle having the attachment applied thereto. Fig. 2 is a perspective view of the outer or supporting section of the attachment. Fig. 3 is a perspective view of the inner or cup section of the device.

Similar reference characters are employed to designate corresponding parts throughout the several views.

Referring to the drawing, A designates an ordinary ink bottle having the usual neck 1, into which is inserted the attachment B, which has a gageable dip cup. The attachment comprises an outer tubular section 2 of metal or other suitable material which is of uniform bore through its length, and at the upper end it is provided with an annular flange or bead 3, which prevents the attachment from dropping into the bottle or well through the neck 1, and it also forms a shoulder on which the cap stopper or cover 4 is adapted to rest when the ink bottle or well is not in use. Disposed within the outer section 2 is an inner cup section 5, which has a hollow tubular body formed at its lower end into an inverted cone 6, at the

point of which is an opening 7 for permitting ink to enter the cup from the bottle. The cylinder portion of this cup is of such external diameter that it will snugly fit in the bore of the outer section and be frictionally held therein at any point and to impart resiliency to the cup section, the cylindrical portion thereof is provided with longitudinal slits 8, whereby spring members 9 will be formed to frictionally hold the cap into different positions of adjustment. The internal surface of the outer section and the external surface of the inner section are smooth so that the inner section can readily move in the outer section when depressed by means of a pen.

In using the device, the same is inserted in an ink well or bottle, and if the latter is full, the cup or inner section will be initially disposed in the upper end of the outer or holding section. The ink rises in the outer section and flows through the opening in the bottom of the cup so that the limited quantity of ink will be contained in the latter and thus the tip of the pen can be sufficiently moistened with ink but without danger of taking up such a quantity as to soil the fingers or cause blotting. As the ink is consumed, the level will lower in the cup so that it is merely necessary to press the latter downwardly by the use of a pen, which is inserted in the cup until it strikes the bottom thereof. Then by slight pressure, the cup can be pushed inwardly to gage the proper depth of the ink. In this way, the cup is depressed from time to time until practically all the ink is consumed. A device of this character is intended to be used over and over again with each new bottle of ink and in taking out the device for use in a new bottle, the inner section or cup is restored to its initial position or raised in the outer section so that when the device is applied to the bottle, the proper depth of ink will enter the cup.

From the foregoing description taken in connection with the accompanying drawing, the advantages of the construction and of the method of operation will be readily apparent to those skilled in the art to which the invention relates, and while I have described the principle of operation of the invention, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative and

that such changes may be made when desired as are within the scope of the claims.

What I claim as new and desire to secure by Letters Patent is:—

- 5 1. A device of the class described comprising a tubular outer section having a smooth bore of uniform diameter and provided with an external flange to form means for holding the device in an ink container, a
- 10 cup section having a cylindrical portion of smooth exterior and frictionally engaged in the holding section and slidably longitudinally thereof, said cup section having a tapered bottom provided with an opening
- 15 to admit ink, and the cylindrical portion of the cup being longitudinally slit to impart resiliency thereto.
2. A device of the class described comprising a tubular outer section having a

smooth bore of uniform diameter and provided with an external flange to form means for holding the device in an ink container, a cup section having a cylindrical portion of smooth exterior and frictionally engaged in the holding section and slidably longitudinally thereof, said cup section having a tapered bottom provided with an opening to admit ink, the cylindrical portion of the cup being longitudinally slit to impart resiliency thereto, and a cap fitted over the upper end of the holding section and resting on the said bead.

In testimony whereof I affix my signature in presence of two witnesses.

ALBERT F. HURD.

Witnesses:

W. T. CLARKE,
H. H. WOODRUFF.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
