

H. RISBON.
 INK WELL.
 APPLICATION FILED FEB. 13, 1912.

1,048,344.

Patented Dec. 24, 1912.

Fig. 1.

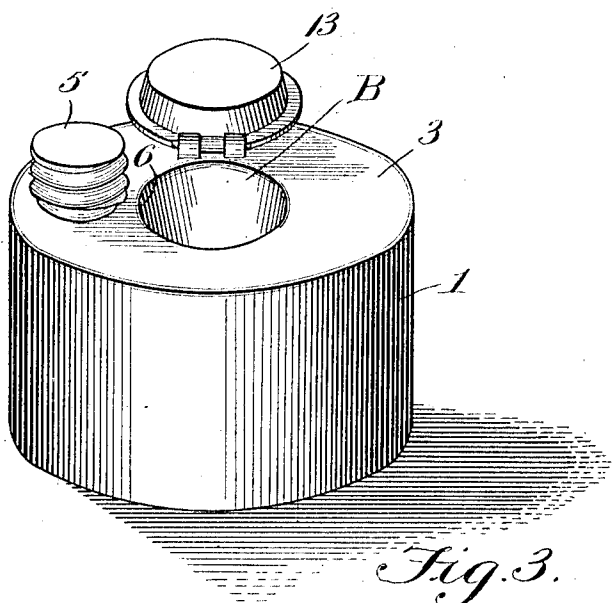
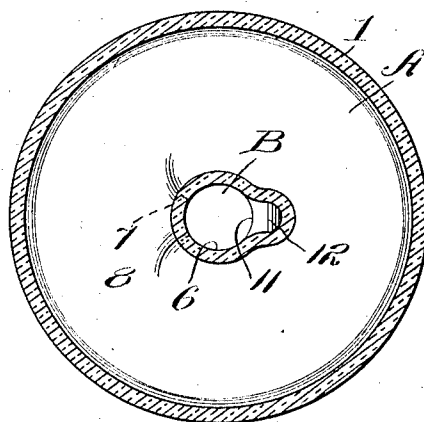
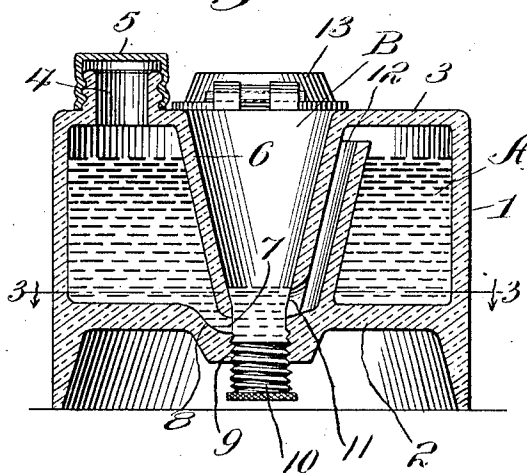


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

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INK-WELL.

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To all whom it may concern:

Be it known that I, HARVEY RISBON, a citizen of the United States of America, residing at Langdondale, in the county of Bedford and State of Pennsylvania, have invented new and useful Improvements in Ink-Well, of which the following is a specification.

The present invention relates to improvements in ink wells and has particular application to a self-feeding ink well.

In carrying out the invention, it is my purpose to provide an ink well of this character, wherein a suitable quantity of ink may be fed to the dip font or chamber of the well to permit the use of pens of various sizes and prevent the latter from receiving too much ink.

Furthermore, I aim to provide an ink well of this type, which will embody among other features a reservoir and a dip font or chamber having open communication with the reservoir to permit the flow of ink from the latter to the former, the level of the ink within the dip font serving to control the flow of ink from the reservoir to the said font.

A further object of the invention is the provision of a self-feeding ink well which will include a reservoir adapted to contain a suitable quantity of ink and a dip font or chamber in open communication with the reservoir, the flow of ink from the reservoir to the font being directly controlled by the level of the ink within the latter; and means for regulating or adjusting the height of the ink within the font so that pens of various sizes may be utilized without receiving an unnecessary quantity of ink.

With the above and other objects in view which shall appear as the description progresses, the invention consists in the construction, combination and arrangement of parts hereinafter set forth in and falling within the scope of the appended claims.

In the accompanying drawings forming a part of this specification; Figure 1 is a detail perspective view of an ink well constructed in accordance with the present invention. Fig. 2 is a central vertical sectional view of the same, and Fig. 3 is a horizontal sectional view of the well.

Referring to the accompanying drawings in detail, in which like numerals of refer-

ence designate similar parts throughout the several views and wherein has been illustrated what I now consider to be the preferred embodiment of the invention, the ink well includes a reservoir A capable of containing a suitable quantity of ink and, in the present instance, is of cylindrical contour. The reservoir A preferably consists of a side wall 1 and a lower or bottom wall 2 connected with the side wall in any suitable manner and spaced a suitable distance from the lower end of the side wall so as to provide a support for the well and permit the flow of ink to be adjusted, as will appear hereinafter. An upper wall 3 is also provided for the reservoir and is formed with a filling opening 4 having a closure 5 adapted to permit the filling of the reservoir with ink.

In the device illustrated, I have shown a dip font or chamber B arranged centrally of the reservoir and including a circular wall or partition 6 depending from the upper wall 3 of the reservoir A and formed integral therewith and arranged within the said reservoir. The reservoir A has communication with the font B through an opening 7 formed in the partition 6 and arranged in a depression 8 formed in the lower wall 2 of the reservoir, the depression terminating in a flanged opening 9 designed to receive a stopper 10. At a point diametrically opposite the opening 7 and a suitable distance above said opening, the wall or partition 6 of the font B is provided with an aperture 11 in communication with a passage 12 formed in the partition 6 and having open communication with the interior of the reservoir A immediately adjacent the inner surface of the upper wall 3 of the latter so that, when the level of the ink within the font B has fallen below the aperture 11, air may pass through the passage 12 and into the reservoir A to permit the ink contained therein to flow through the opening 7 and into the font, the rising of the ink within the font serving to close the aperture 11, whereby the flow of ink to the well is cut off. To adjust or regulate the level of the ink within the font B, so that pens of various sizes may be used without retaining too great a quantity of ink, the stopper 10 is adjusted within the opening 9 whereby to vary the quantity of ink

flowing from the opening 7 into the font. The upper end of the font B is closed by a movable stopper or cover 13 which may be pivoted or otherwise secured to the upper wall 3 of the reservoir.

To fill the well, the stopper 13 is positioned within the mouth of the font B to close the same, and the closure 5 removed whereby the reservoir A may be filled with a quantity of ink, it being understood of course that the level of the ink within the reservoir shall be below the upper terminal of the passage 12. In use, the closure 5 is applied to the opening 4 and the stopper 13 removed whereby air is permitted to flow through the passage 12 and into the reservoir A to cause the ink contained in the reservoir to flow through the opening 7 and into the font, the ink flowing into the font serving to close the inlet of the passage 12 whereby the flow from the reservoir to the font is cut off. Thus, it will be seen that the quantity of ink within the font is just sufficient to properly coat the pen, upon the same being dipped into the font, thereby eliminating too free a coating of ink being applied to the pen.

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 appertains, 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 de-

sired as are within the scope of the claims appended hereto.

Having thus described my invention, what I claim and desire to secure by Letters-Patent is:

1. An ink well comprising a reservoir having an opening in the bottom wall thereof, a dip font in communication with the reservoir above the opening therein and provided with an air passage arranged in open communication with the reservoir and adapted to control the flow of ink from the reservoir to the dip font, and a stopper threaded into the opening in the said reservoir and adapted to vary the communication between the reservoir and the dip font, whereby the flow of ink to the font may be regulated.

2. An ink well comprising a reservoir having an opening formed in the bottom wall thereof, a dip font arranged approximately centrally of the reservoir and above the opening therein and provided with an opening establishing communication between the reservoir and the font, said font being further formed with an air passage in communication with the reservoir and adapted to control the flow of ink from the reservoir to the font, and a stopper threaded into the opening in the bottom wall of said reservoir and adapted to vary the area of the opening in the font, whereby the flow of ink from the reservoir to the font may be regulated.

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

HARVEY RISBON.

Witnesses:

GLEN SMITH,
WATSON MELLATT.