No. 850,479. PATENTED APR. 16, 1907.

J. W. JACOBUS.

INK WELL.

APPLICATION FILED NOV. 28, 1906.

Fig. 1.

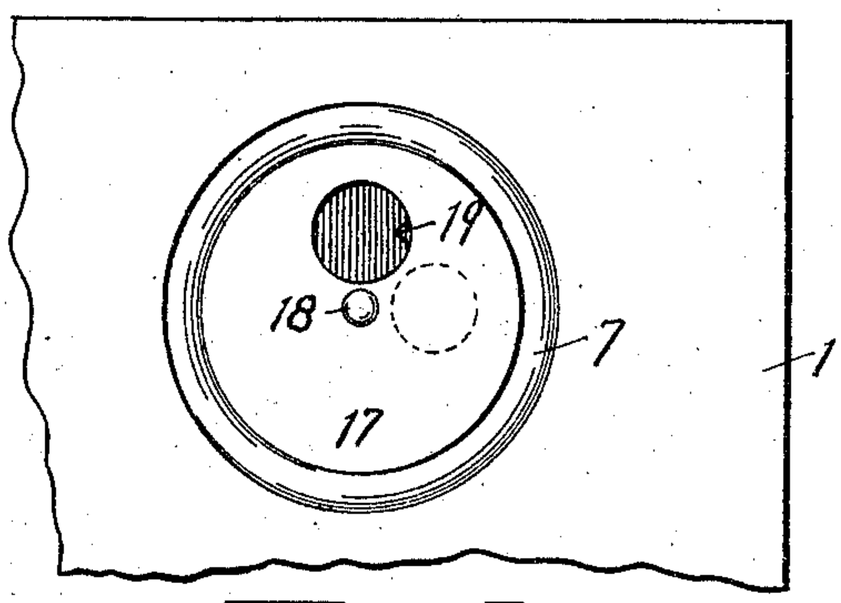


Fig. 2.

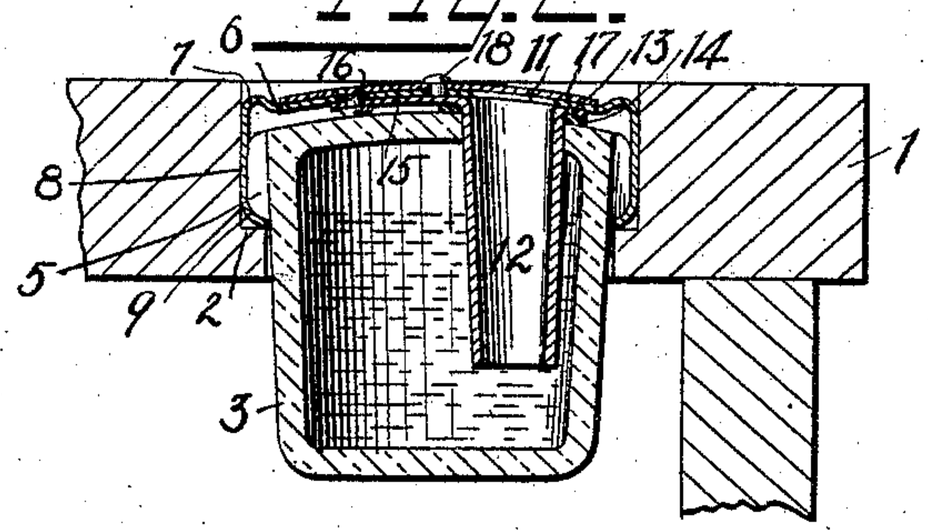


Fig. 3.

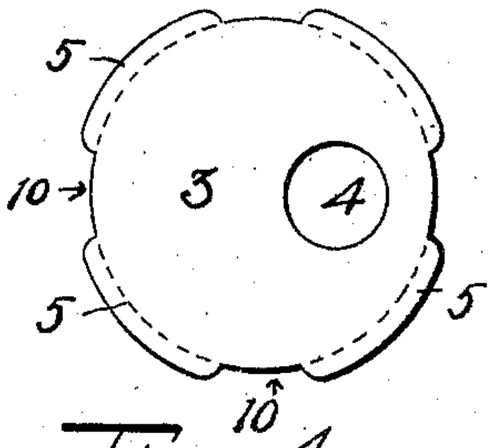


Fig. 4.

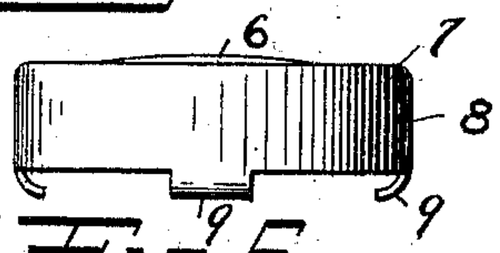
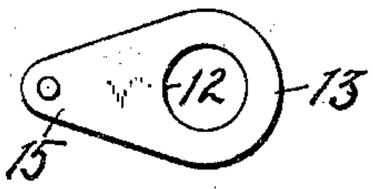


Fig. 5.



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INK-WELL.

No. 850,479. Specification of Letters Patent. Patented April 16, 1907.

Application filed November 28, 1906. Serial No. 345,427.

To all whom it may concern:

Be it known that I, JAMES W. JACOBUS, a citizen of the United States, residing at Great Neck, county of Nassau, State of New York, have invented certain new and useful Improvements in Ink-Wells, of which the following is a full, clear, and exact description.

My invention relates to ink-wells, and particularly such as are generally installed in the top of desks and similar structures.

The main object of my invention is to perfect an ink-well of the pneumatic type which will be durable and efficient and yet of low cost and suited to use in school-desks.

The details of improvement consist, first, in eliminating screw-threads; second, in reducing the size of opening in the well to a minimum; third, the provision of a peculiar protecting top and cover, and, fourth, in a yielding or resilient support and bearing for the pen-tube.

The principles and preferred form will be understood from inspection of the following specification and claims and the accompanying single sheet of drawings.

Figure 1 is a plan view of a fragment of a desk or table with an ink-well of my invention in place and closed. Fig. 2 is a vertical section of the same. Fig. 3 is a plan view of the body or reservoir of the ink-well. Fig. 4 is a side view of the top detached and without the cover. Fig. 5 is a plan view of the pen-tube.

The table or desk 1 is preferably provided with an opening having an interior shoulder 2, located some little distance below the top for the ink-well, but permitting it to lie flush with the upper surface.

The reservoir 3 of the well is preferably formed of glass without joints and closed at the bottom and top, except for the small opening or mouth 4. Around the upper end are arranged a plurality of lugs 5 5, laterally projecting in the nature of an interrupted flange for securing the top member in place and supporting the reservoir on the shoulder 2.

The top member is preferably formed of sheet metal and consists of the central disk portion 6, the raised rim 7, the depending flange 8, and the inturned yielding lugs or fingers 9 9. These fingers are spaced apart far enough to permit the passage of the lugs 5 5 and are narrow enough to pass through the notches 10 10 between the lugs, so that the top may be interlocked with the reservoir or removed when desired. In the disk 6 is an opening 11 for the passage of a pen.

The pen-tube 12 is preferably of hard rubber or similar substance and fits closely the mouth 4. The flange 13 of the tube overlies the periphery of the mouth 4 and rests upon a somewhat yielding air-tight washer 14, preferably of soft rubber, so that when the tube-flange is pressed down no air can leak into or out of the reservoir except through the tube. To prevent ink from rising in the tube 12 when the tube is being inserted in the reservoir a cork may be used or the thumb placed over the upper end. Even if this precaution is not taken and some ink does rise in the tube it will be but a small quantity and quickly used up, after which the pen-supply will be limited by the height of the lower end of the tube from the bottom of the reservoir. The construction has advantages even when the washer 14 or its equivalent is omitted, since the entrance into the reservoir is small.

In order that the parts may not be lost or misplaced, I have secured the tube and top together, the extension-arm 15 of the tube-flange being loosely pivoted at 16 to the top disk 6. This permits the top to be turned sufficiently to interlock the fingers 9 9 and lugs 5 5, but limits the turning, since the top turns about the axis of the reservoir while the tube is centered in the mouth 4 so as to cause the pivot 16 to move in the arc of a circle about the center of mouth 4. If the pivot 16 were tight and the tube 12 tightly fitted mouth 4, this turning of the top on the reservoir while the tube is in the mouth would be impossible, but the turning is permitted by reason principally of the loose pivot and partly the loose fit of tube 12 in mouth 4. The extension-arm 15 is preferably so shaped that it acts as a spring when assembling the parts, and thus presses upon the top and down on washer 14 to make the joint tighter. The relative vertical dimensions of the reservoir-lugs 5 5 and the top flange 8 and fingers 9 9 are such as to require a little pressure in assembling the parts. This insures a tight but yielding fit, so that there can be no leakage and no danger of breakage.

The cover 17 is pivoted at 18 to disk 6 and has an opening 19 adapted to register with the tube 12 and the top opening for admitting a pen when desired. The edge of the cover is protected by the top rim 7, so as to

prevent tampering. The arch form gives strength and facilitates operation by affording a gripping-surface for the fingers.

What I claim is—

1. An ink-well comprising, an integral jointless reservoir cylindrical in form, closed at the bottom and provided with a single restricted orifice at the upper end but otherwise imperforate, a pen-tube extending downward through said orifice into said reservoir, means for effecting an air-tight joint between said tube and said reservoir, and a protecting top member.

2. An ink-well comprising, a reservoir having a plurality of laterally-projecting lugs adjacent the upper end, a pen-tube extending down into said reservoir, and a top member carrying said tube and having a central disk portion provided with an opening above said tube, a depending flange and a plurality fingers interlocking with said lugs.

3. An ink-well comprising, a reservoir having a restricted orifice in its upper end, a pen-tube fitting in said orifice, a top member adapted to be secured to said reservoir and yielding means of connection between said pen-tube and said top member.

4. An ink-well comprising, a reservoir, a pen-tube, a top member, and means of connection between said tube and top permitting a limited rotary movement of said top relative to said reservoir.

5. An ink-well comprising, a reservoir having a single restricted orifice in its upper end but otherwise imperforate, a pen-tube extending downward through said opening, and having a flange making an air-tight joint therewith; a protecting top member and a cover.

6. As an article of manufacture, an ink-well reservoir comprising, an integral, jointless body, cylindrical in form, closed at the bottom and top, except that the top is provided with a single restricted orifice, said body being provided at the top with integral laterally-projecting means for resting upon a supporting-shoulder, as shown and described.

7. An ink-well comprising, a reservoir having a restricted orifice at its upper end, a protecting top member adapted to be removably secured to said reservoir and a pen-tube carried by said top member and extending downward through said orifice into said reservoir to a point near the bottom thereof.

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