

No. 748,002.

PATENTED DEC. 29, 1903.

S. D. O'DONNELL.

INK WELL.

APPLICATION FILED OCT. 1, 1903.

NO MODEL.

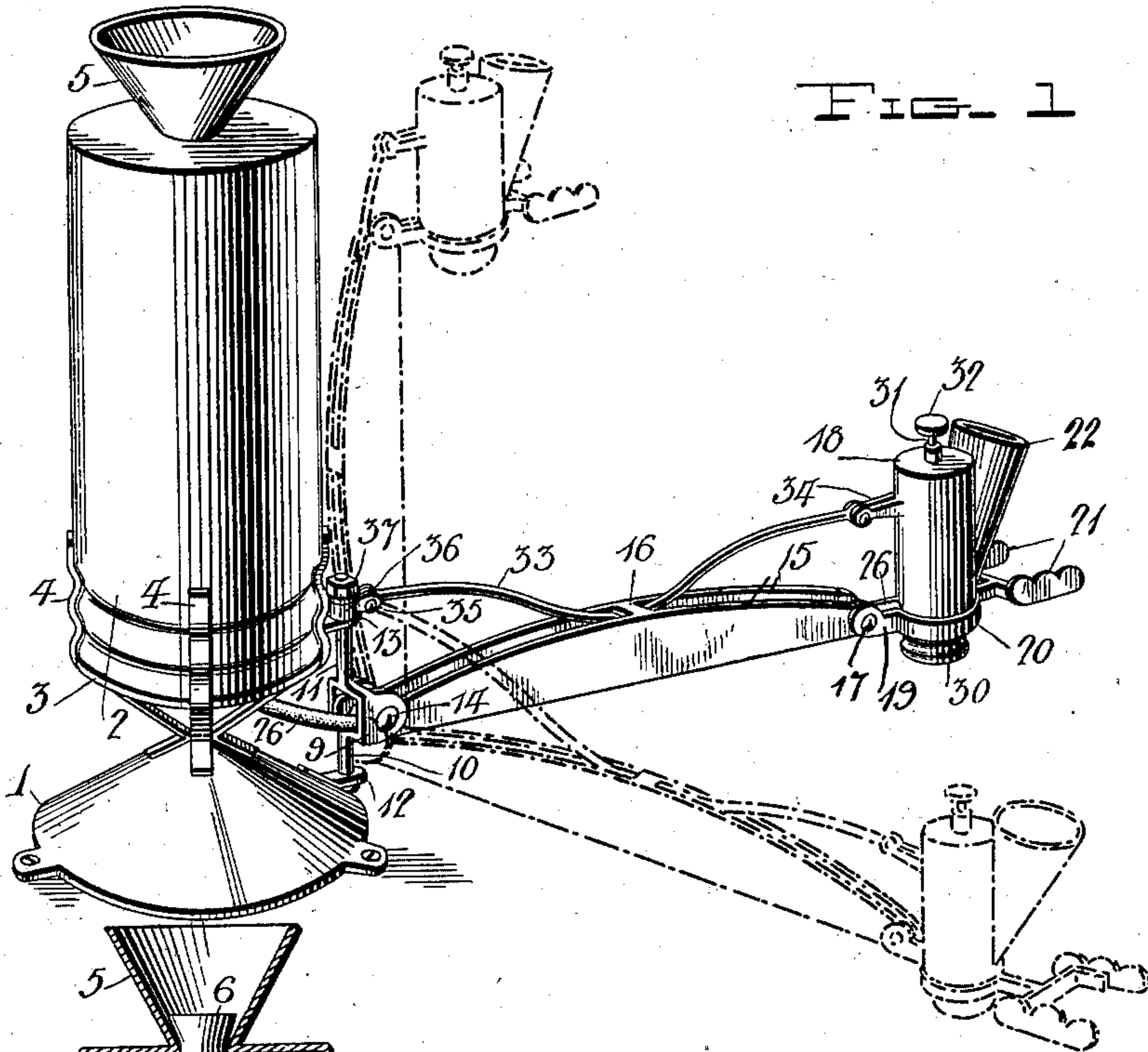


FIG. 1

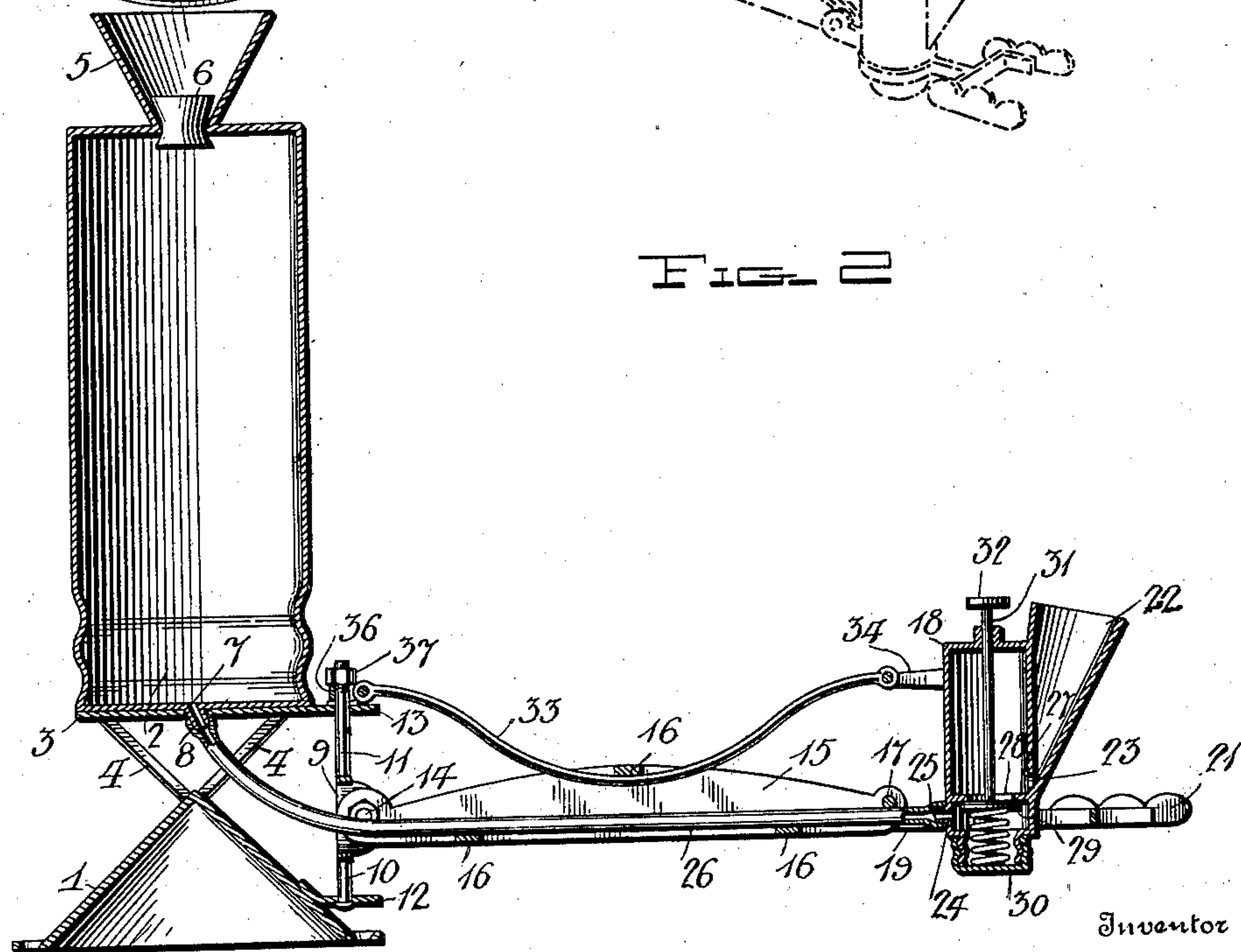


FIG. 2

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Witnesses

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UNITED STATES PATENT OFFICE.

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INK-WELL.

SPECIFICATION forming part of Letters Patent No. 748,002, dated December 29, 1903.

Application filed October 1, 1903. Serial No. 175,304. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL D. O'DONNELL, a citizen of the United States, residing at Cameron, in the county of Clinton and State of Missouri, have invented certain new and useful Improvements in Ink - Wells; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to ink-wells, and contemplates an improved fountain-equipped device of this character possessing, among other novel features hereinafter set forth, an ink-well support constructed to permit the ink-well to be swung horizontally to assume any desired position and also to be elevated and depressed, the stated movements being accomplished without disconnection from the ink reservoir or supplier.

The invention in all of its details is fully set forth in the following description and illustrated in its preferred form of embodiment in the accompanying drawings, it being understood that various modifications may be made therein without departing from the spirit of invention defined by the concluding claims.

Referring to the drawings, Figure 1 is a perspective view of an ink-well embodying my invention, full and dotted lines showing different positions of the parts. Fig. 2 is a vertical longitudinal sectional view.

Referring to the drawings by numerals, 1 designates a supporting-stand, which is weighted or which may be provided with ears for fastening it to a desk, table, or the like. On the stand is a rest for an ink-reservoir 2, the rest consisting of a plate 3 and clamping-fingers 4 4, the latter being crimped and engaging the corrugated lower end of the cylindrical reservoir, whereby to hold the latter firmly against accidental dislodgment, although permitting its ready removal and replacement. In the top of the reservoir is a filling-opening having a funnel-mouth 5, and 6 is a suitable closure therefor. From the discharge-opening 7 in the bottom of the reservoir leads a short nozzle 8.

9 is a bracket provided with vertically-extending trunnions 10 11, respectively pivoted in openings in ears 12 13 on the stand 1 and plate 3. Pivoted to the bracket by horizon-

tally-disposed bolts 14 14 are two arms 15 15, secured to each other in separated relation by cross-pieces 16 16, and to the outer ends of said arms is pivoted, by means of a horizontal pin 17, an auxiliary ink-reservoir 18, of cylindrical form and relatively smaller than the main reservoir 2. The pin 17 extends through ears 19 on the reservoir 18, and preferably said ears are integral with bands 20, encircling the reservoir 18 and having projecting ends, to which are attached pen-rack members 21 21.

Secured to or integral with the auxiliary reservoir 18 is an ink-well 22, which communicates with the reservoir 18 by an opening 23 near the bottom of the latter. From an opening 24 in the reservoir 18 opposite to and below the opening 23 leads a nozzle 25, and connecting the said nozzle and the nozzle 8 of the main reservoir is a flexible ink-conducting tube 26. A horizontal partition 27 in the reservoir 18 between the openings 23 24 contains an aperture 28, and 29 is a valve controlling said aperture, the valve being held normally in closing position by a spring interposed between the lower side of the valve and a cap 30, which latter closes the lower end of the reservoir 18. The valve-stem 31 projects through and beyond the top of the reservoir 18 and terminates in a head 32.

33 is a rod the ends of which are pivoted, respectively, to ears 34 on the reservoir 18 and to ears 35 on a sleeve 36 on the upper trunnion 13, a nut 37 on the trunnion serving to confine said sleeve. The rod 33 is intermediately bent to extend under the upper cross-piece 16, which connects the arms 15.

In practice ink is supplied by the main reservoir to the auxiliary reservoir through the tube 26, and to fill the ink-well the valve is depressed against the action of its spring by pressure on the head 32 of the valve-stem. The ink well and reservoir, by reason of the peculiar construction of their supporting means, can be raised or lowered, and through the medium of the rod 33 the vertical position of the well and reservoir is maintained regardless of said movements. In the lowered position of the reservoir and well the engagement of the rod 33 with the upper cross-piece 16 prevents further depression. The

reservoir and well may also, as previously stated, be swung horizontally to occupy different positions, such movements, as well as the vertical movements, being permitted by reason of the employment of the flexible-tube connection. The cap 30 may be removed from time to time for the withdrawal of sediment.

I claim as my invention—

1. An ink-well and supporting means therefor mounted to have universal movement.

2. An ink-well, a stand, and supporting arms for the ink-well said arms being universally joined to said stand.

3. An ink-well, a stand, a bracket connected to the stand by a vertical pivot, arms horizontally pivoted at one end to the ink-well and at the other end to the bracket, and a rod pivoted at its ends to the bracket and ink-well to maintain the vertical position of the latter.

4. An ink-well, a stand, a bracket vertically pivoted to the stand, arms horizontally pivoted to the bracket and ink-well, and a rod pivoted to the bracket and ink-well and intermediately engaging a shoulder on the arms in the lowered position of the ink-well.

5. In combination, an ink-reservoir, an auxiliary reservoir supplied from the afore-said reservoir, an ink-well in communication with the auxiliary reservoir and a valve controlling the supply of ink to said ink-well.

6. In combination, a stand, an ink-reservoir removably supported on the stand and having a filling-opening and a discharge-outlet, an auxiliary reservoir having tube con-

nection with said discharge-outlet, an ink-well carried by and communicating with the auxiliary reservoir, a valve controlling said communication, and arms joined to the auxiliary reservoir and stand to permit vertical and horizontal movements of the auxiliary reservoir and ink-well.

7. In combination, a cylindrical ink-reservoir having a corrugated lower end, a stand therefor having crimped arms engaging said lower end, an auxiliary reservoir, a pen-rack and ink-well carried by the auxiliary reservoir said ink-well communicating with the auxiliary reservoir, a valve controlling said communication, arms connecting the auxiliary reservoir and stand permitting vertical and horizontal movements of the auxiliary reservoir and ink-well, and a flexible tube joining said reservoirs.

8. In combination, a main ink-reservoir, an auxiliary reservoir communicating therewith, an ink-well carried by the auxiliary reservoir and communicating with the latter by an opening, an apertured partition in the auxiliary reservoir between its inlet and discharge openings, a valve at said aperture having a head-equipped stem projecting above the top of the reservoir, and a spring interposed between the valve and a removable cap closing the lower end of the reservoir.

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

SAM. D. O'DONNELL.

Witnesses:

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H. B. COOPER.