No. 864,389. PATENTED AUG. 27, 1907.

J. B. SCOZZAFAVA.

INK WELL.

APPLICATION FILED OCT. 10, 1906.

Fig. 1.

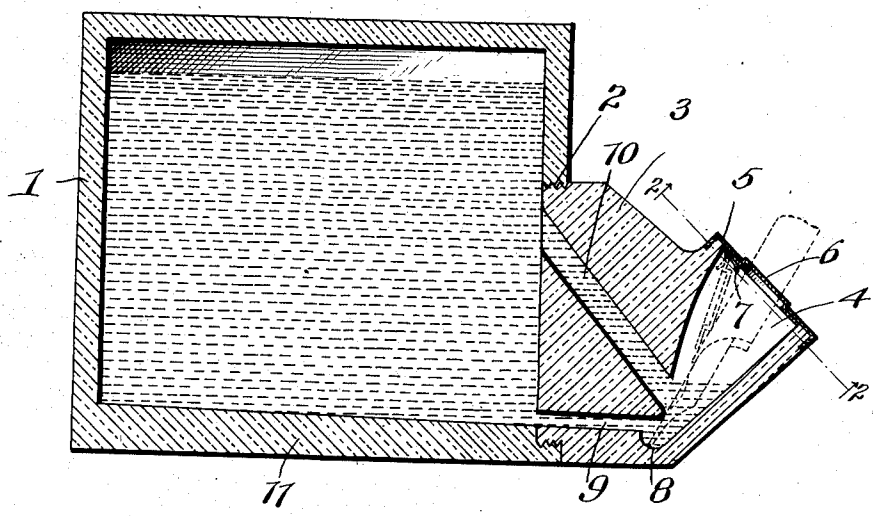
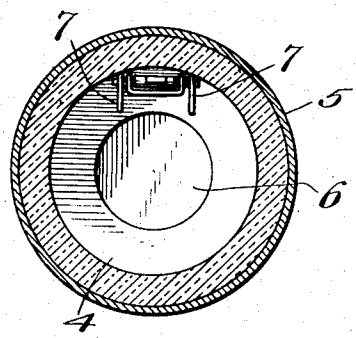


Fig. 2.



Witnesses

M. C. Lyddane

L. W. Anderson

Inventor

John B. Scozzafava

By W. J. Fitzgerald & Co.

Attorneys

UNITED STATES PATENT OFFICE.

JOHN B. SCOZZAFAVA, OF WATERBURY, CONNECTICUT.

INK-WELL.

No. 864,389. Specification of Letters Patent. Patented Aug. 27, 1907.

Application filed October 10, 1906. Serial No. 338,296.

To all whom it may concern:

Be it known that I, JOHN B. SCOZZAFAVA, a citizen of the United States, residing at Waterbury, in the county of New Haven and State of Connecticut, 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.

My invention relates to new and useful improvements in ink wells and my object is to provide a well of this class which will automatically feed ink into a pen receiving receptacle as used.

A further object is to provide means to protect said ink from the outside atmosphere and prevent the same from evaporating.

A still further object is to provide means to normally keep the opening in said well closed and prevent the spilling of the ink should the well be tipped over.

Further objects and advantages will be hereinafter referred to and pointed out in the claims.

In the accompanying drawings I have shown the preferred form of my invention.

In said drawings—Figure 1 is a longitudinal central section through the well or stand and feed device, and, Fig. 2 is a detail sectional view as seen from the line 2—2 Fig. 1.

Referring to the figures by numerals of reference, 1 indicates the reservoir or body of my improved ink well which may be made in any preferred shape and is provided at one side with an opening 2 to receive an automatic feed member 3, said member having an auxiliary reservoir 4 therein, the upper end of which is provided with a cap 5 through which the pen is inserted into the ink. The cap 5 has an opening therein which is adapted to be normally closed by a closure 6, said closure being hinged to said cap 5 and is normally held in the opening in said cap by means of a spring member 7. The walls of the reservoir 4 are tapered from their upper edge downwardly and terminate in a cup-shaped member 8 at the lower end of said reservoir, said member 8 being below the inlet tube 9 in the feed member 3, said inlet tube extending from the auxiliary reservoir 4 through the feed member 3 into the main reservoir 1, the object of said inlet tube 9 being to feed the ink from the reservoir 1 into the auxiliary reservoir 4. The automatic feed member 3 is also provided with an air tube 10, said tube starting from the reservoir 4 at a point a short distance above the inlet tube 9 and extending upwardly through the automatic feed member 3 to a point near the upper edge of said feed member.

As shown in Fig. 1 of the drawings, the member 3 is threaded into the opening 2, but it will be understood that any preferred means may be employed to secure said member therein. The floor 11 of the main reservoir 1 is made thicker at one edge than at the other so that the upper surface thereof will be inclined whereby all of the contents of said reservoir 1 will be directed into the inlet tube 9.

In use, the member 3 is removed from the reservoir 1 and said reservoir is filled with writing fluid, after which the member 3 is again screwed into the opening 2 and the ink well placed upon its base whereupon air will pass up through the tube 10 until a sufficient quantity of the fluid has passed through the inlet tube 9 and entered the auxiliary reservoir to a sufficient height to close the lower end of the tube 10 whereupon the atmospheric pressure will be removed from the fluid in the main reservoir and the flow of the fluid stopped. As soon, however, as the ink is removed from the reservoir 4 sufficiently to allow air to again enter the tube 10, more of the fluid will enter the reservoir 4 as before stated.

The object of the cup-shaped depression 8 in the bottom of the auxiliary reservoir 4 is to permit all of the ink in the reservoir 1 to be brought into a position whereby a pen can be placed therein. It will also be seen that by having the closure 6 hinged on the under side of the cap 5, that said closure can be moved out of the opening in said cap by pressing thereon with the point of the pen, the spring 7 being only of sufficient tension to return the closure 6 into the opening in said cap after the pen has been removed from the auxiliary reservoir. It will also be seen that by providing this construction, the opening in the cap 5 will be normally closed so that should the ink well be upset, the ink will be prevented from running out through said opening and by having said opening normally closed the ink in the reservoir is kept free from foreign particles.

What I claim is:—

1. An ink well of the class described comprising a main reservoir having an opening therein, an automatic feed member secured in said opening, an auxiliary reservoir in said feed member, a cup-shaped terminal at the lower end of said auxiliary reservoir, said feed member having an inlet tube at its lower end disposed in a plane above said cup-shaped terminal, said inlet tube being in line with the upper surface of the floor of the main reservoir, said member also having an air tube registering at one end with the main reservoir and at its opposite end with the auxiliary reservoir, said air tube being at an acute angle to the axis of the auxiliary reservoir and means to automatically close the upper end of the auxiliary reservoir.

2. An ink well of the class described comprising a main reservoir having a circular opening in one end thereof, the periphery of said opening being threaded, an automatic feed member cylindrical in cross section and having threads thereon adapted to enter said opening, and engage the threads on the periphery of said member, an auxiliary reservoir in said feed member, at an obtuse angle to

the horizontal axis of the member, said feed member having an inlet tube at its lower edge adapted to convey ink from the main reservoir to the auxiliary reservoir, said inlet tube being in line with the upper surface of the floor of the main reservoir, said member also having an air tube extending upwardly from the lower portion of the auxiliary reservoir and registering with the main reservoir at a point adjacent the upper portion of the feed member, said air tube being at an acute angle to the axis of the auxiliary reservoir and means to automatically close the upper end of the auxiliary reservoir.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN B. SCOZZAFAVA.

Witnesses.:
DOMENICO MOMFRED,
RALPH MALLORY.