No. 875,148. PATENTED DEC. 31, 1907.

H. G. CAMPBELL.

INK WELL.

APPLICATION FILED APR. 1, 1907.

2 SHEETS—SHEET 1.

Fig. 1.

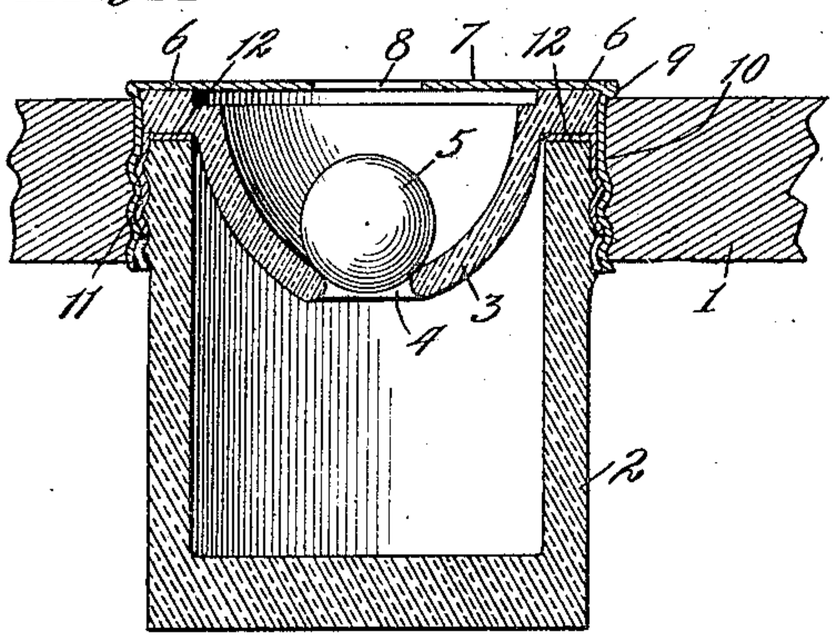


Fig. 2.

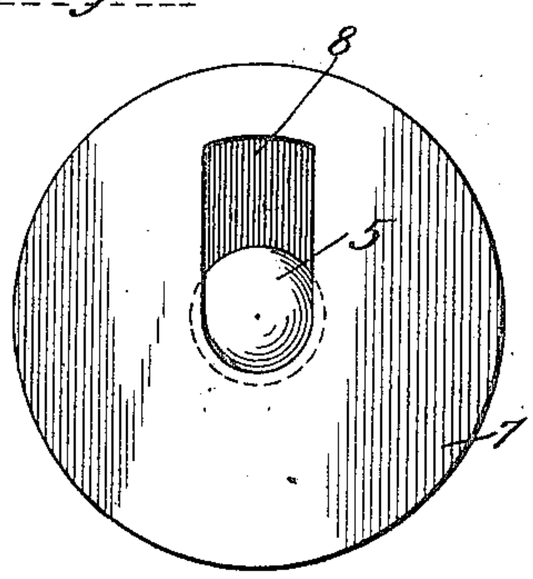


Fig. 4.

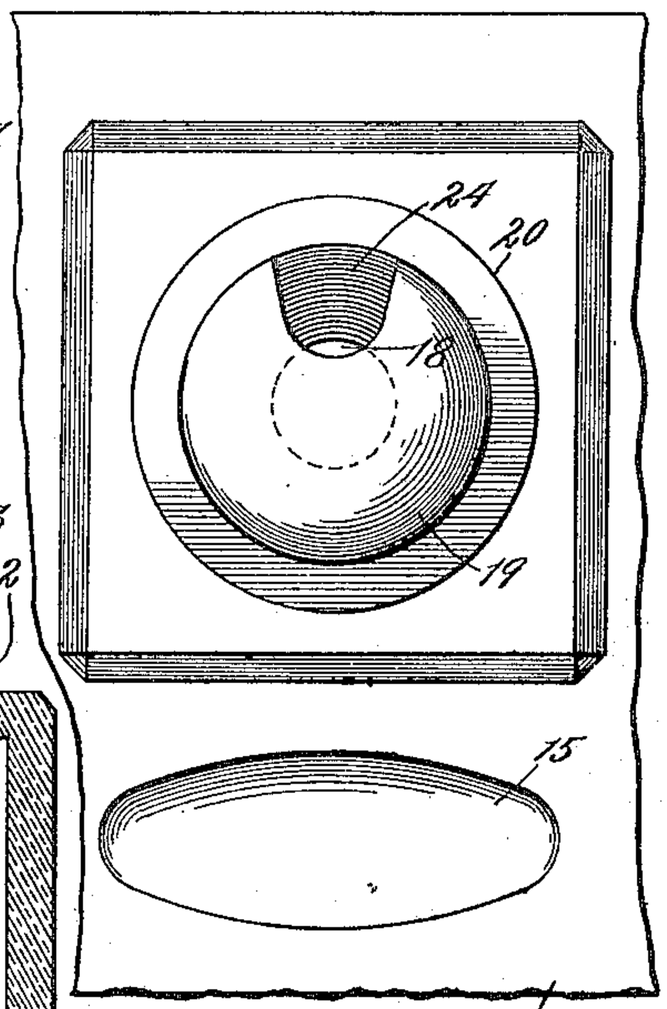
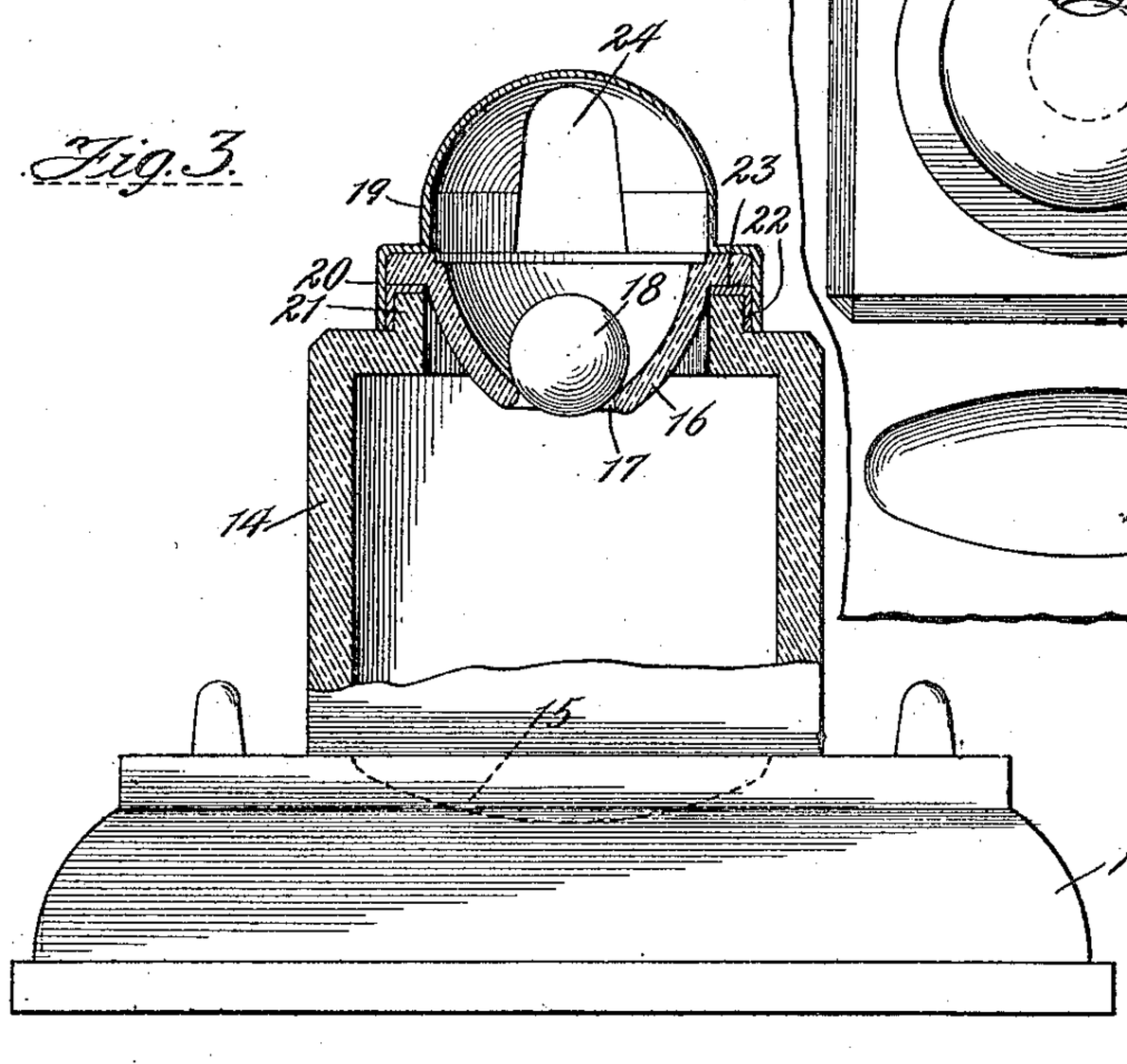


Fig. 3.



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INK WELL.

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2 SHEETS—SHEET 2.

Fig. 5.

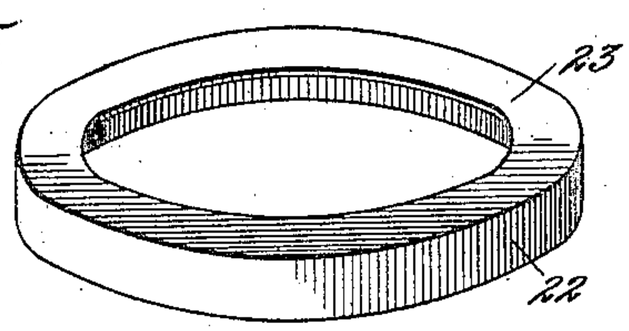


Fig. 6.

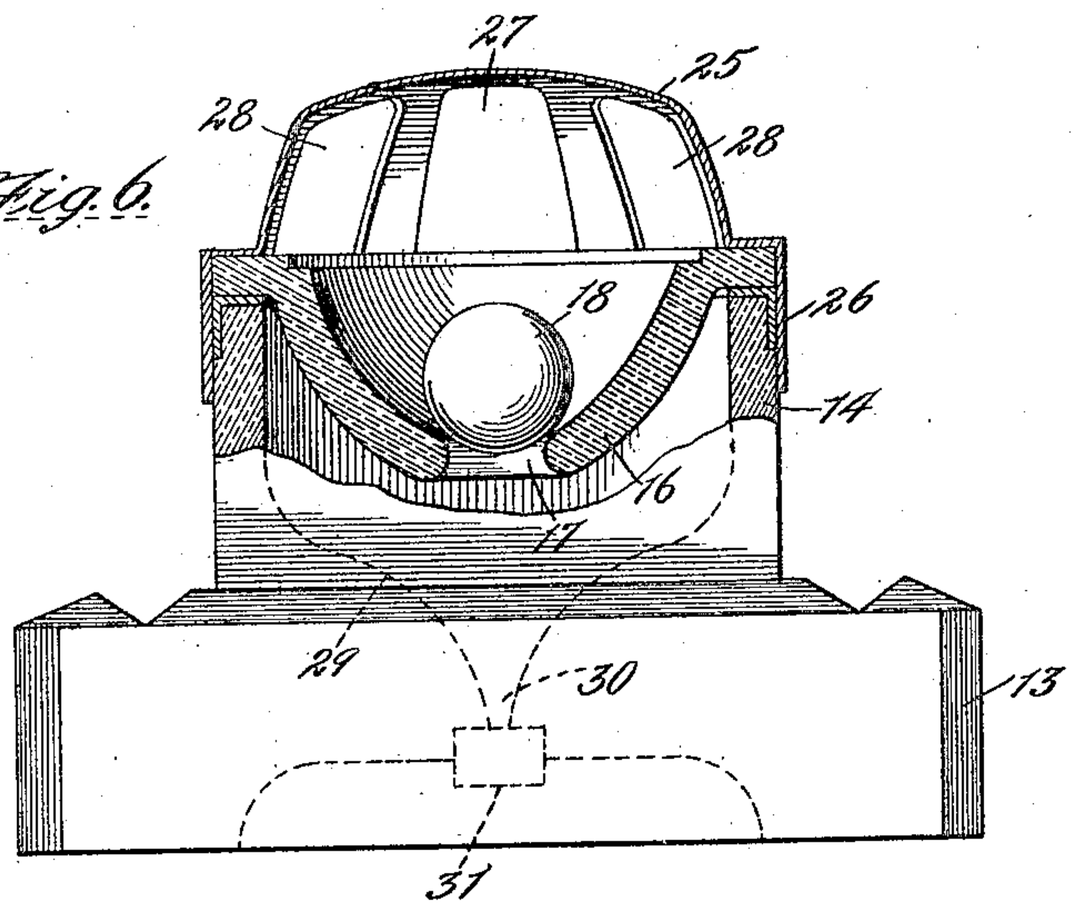
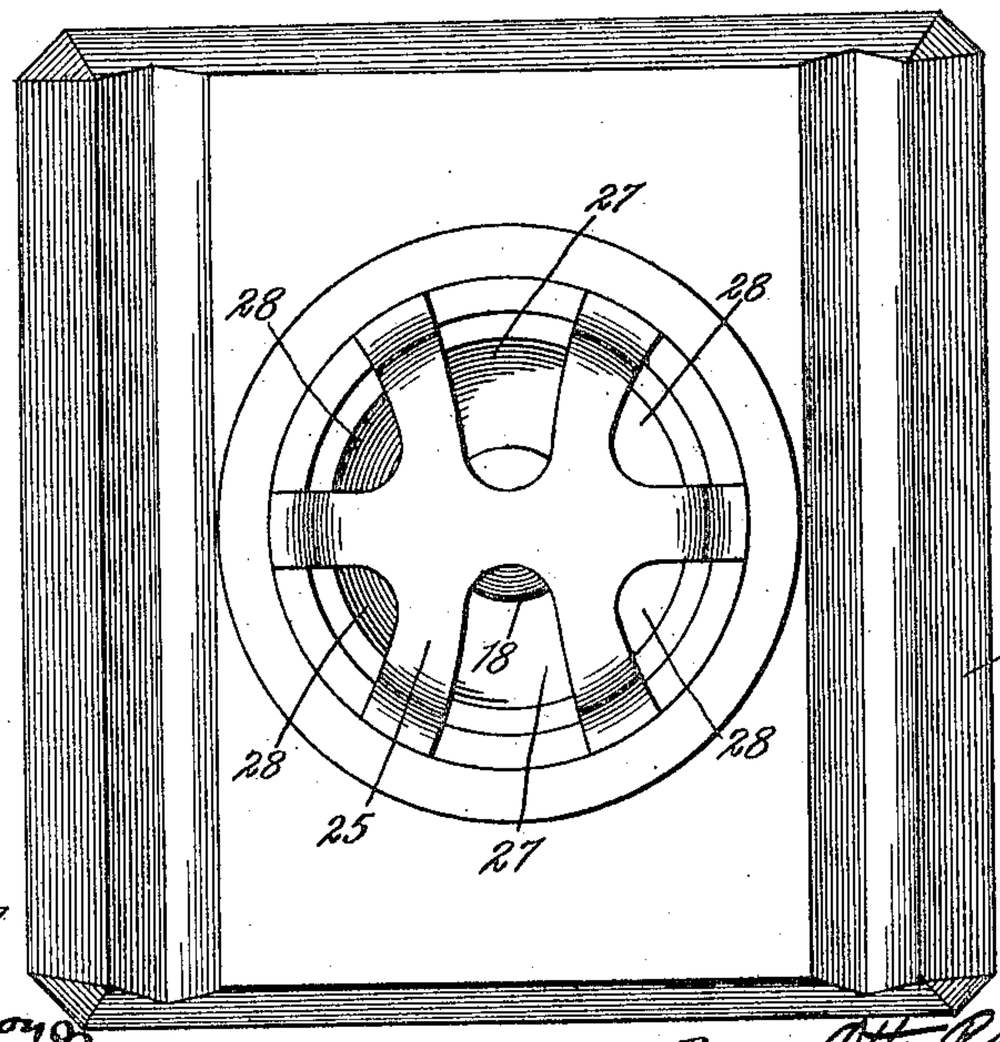


Fig. 7.



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UNITED STATES PATENT OFFICE.

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INK-WELL.

No. 875,148. Specification of Letters Patent. Patented Dec. 31, 1907.

Application filed April 1, 1907. Serial No. 365,802.

To all whom it may concern:

Be it known that I, HARRY G. CAMPBELL, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Ink-Wells, of which the following is a specification.

My invention relates to inkwells, ink stands and such like receptacles, and particularly to receptacles which are closed by a spherical or rolling valve. Inkwells of this sort are described in patent to E. D. Dann No. 820,480 granted May 15th, 1906, and the present invention constitutes an improvement on the devices shown in that patent. In this patent the closure consists of a metal runway in which there is an aperture covered by a rolling spherical valve, the run-way resting upon the top of the inkwell and the whole being covered by a cap-piece. It has been found desirable in inkwells of this sort to make the run-way of glass, so that it will not be corroded by the ink, and also to attach it to the cap-piece, so that the valve cannot be removed. This is particularly desirable in the case of school inkwells. These wells should be made so that they can be opened readily for cleaning or filling and, at the same time, they should be constructed so that the ball cannot be taken out.

My invention has for one of its objects to construct a closure of a run-way, preferably of glass or other non-corrodible material, and of a cap-piece, the two being connected together, permanently if desired, so as to contain the spherical valve between them, the whole closure being made removable from the receptacle.

My invention has for its object such other improvements in the construction of closures and other parts of inkwells as are shown in the accompanying drawings and will be described in the following specification.

The invention is illustrated in the accompanying drawings, in which

Figure 1 is a vertical section through one form of school well. Fig. 2 is a plan view of the same. Fig. 3 is an elevation with the upper part in section of another form of inkwell or stand illustrating a modification of my modified form of closure. Fig. 4 is a plan view of the same. Fig. 5 is a perspective view of the fastening ring used in the construction of the closure shown in Figs. 3 and 4. Fig. 6 is an elevation, with parts in section, of another form of inkwell and closure; and Fig. 7 is a plan view of the same.

Like numerals of reference indicate like parts in all the drawings.

Referring particularly to Figs. 1 and 2, 1 represents the top of the desk, which is apertured to receive the inkwell, 2 is the body of the inkwell which is preferably made of glass, 3 a dish-shaped run-way having the aperture 4 closed by the rolling valve 5. The run-way is preferably made of glass and has the flange 6, by means of which it is supported upon the well. 7 is a cap-piece or top having the slot or aperture 8 through which the pen holder may be extended and preferably provided with an extension or circular rib 9 to support the inkwell upon the desk. In the particular form of device shown in Figs. 1 and 2 the cap-piece has a screw-threaded flange 10 into which screws a ring 11 having a flange 12 which abuts against the flange 6 of the run-way. The top part of the well is also provided with threads to engage with the threading on the ring 11. It will be seen that when the ring 11 is screwed into the flanged part of the cap-piece and against the run-way, the run-way will be held against the cap-piece and the ball or valve confined between the two. The closure as a whole, consisting of the run-way, the cap-piece and the securing ring 11, may then be screwed on or off as a whole. When once the ring 11 has been screwed into the cap-piece it is next to impossible to get it out. It cannot be done with the fingers, as the space between the ring and the curved wall of the run-way will be too narrow. The school children, therefore, will be unable to take the closure apart, although it will be very a simple matter to remove it from the well when it is necessary to clean or fill the well. A closure of similar character is shown in Figs. 3, 4, and 5, the closure here being applied to the well of an ink-stand. In these figures, 13 represents the base, 14 the well, preferably provided with a footing 15 extending into a recess in the base, 16 the run-way having an aperture 17 closed by a valve 18, and 19 a cap-piece having a flange 20 adapted to extend over the flange of the run-way and surround the neck 21 of the well. 22 is a securing ring having a flange 23 abutting against the flange of the run-way. The ring 22 may be held within the flange 20 by some permanent fastening or by frictional en-

gagement. The cap-piece is provided with a slot 24.

In Figs. 6 and 7 I have shown a modified form of cap-piece consisting of a rounded top 25 having a flange 26 extending over the top of the well, this top being provided with a number of slots 27 and 28, the run-way being fastened to the cap-piece in a manner similar to the construction of Figs. 3 to 5. The cap-piece or top it will be seen serves as a guide for the pen holder. It will be understood that when the pen is inserted in the inkwell it has to push aside the rolling valve. In order that the point of the pen should not be injured, the pen should be inserted at an oblique angle. The slots do not extend across the cap-piece, but terminate part way up the sides, so that the pen cannot be inserted vertically into the aperture controlled by the ball. Preferably the space within the well for the reception of the ink is tapered as shown at 29, to form a very small passage-way 30 through the bottom of the well. This passage-way has an enlargement to receive a cork 31. By this arrangement the last few drops of ink are concentrated, so that they are available for use. Slots 27 are longer than slots 28, the latter being those ordinarily used. Slots 27 may be used when the ink in the well is very low, in order that the pen may be inserted at an angle more nearly vertical. The passage 30 is made of such a length that a pen will not reach down far enough to push out the cork 31. The hole in the bottom of the inkwell affords an easy means of cleaning the same.

I wish it to be understood that I do not desire to limit myself to the particular devices and construction herein shown, as obvious modifications will occur to persons skilled in the art. I have shown several sorts of inkwells or ink-stands, but it will be clear that my invention might be employed with inkwells of other receptacles of very different character.

I claim:

1. In an inkwell, the combination with an ink receptacle, of a closure for the same comprising a cap-piece having a flange, a glass runway adapted to lie within the flange of the cap-piece, a ring within the flange of the cap-piece and engaging with the same and with the runway to hold the latter in position against the cap-piece, and a rolling valve inclosed between the cap-piece and the runway.

2. In an inkwell, the combination with an ink receptacle, of a closure for the same comprising a metallic cap-piece having an internally screw-threaded flange, a dish-shaped glass runway having a perforation disposed within the flange of the cap-piece, a screw-threaded ring adapted to be screwed into the flange of the cap-piece, and against the runway, so as to hold the latter against the cap-piece, and a rolling valve inclosed between the cap-piece and the runway.

3. In an inkwell, the combination with an ink receptacle having a screw-thread formed at its mouth, of a closure for the same comprising a metallic cap-piece having a screw-threaded flange, a glass runway having a flange and located within the flange of the cap-piece, a screw-threaded, flanged ring adapted to be screwed into the flange of the cap-piece and against the flange of the runway, the runway being dish-shaped, so as to form a relatively narrow space between it and the flange of the cap-piece, whereby the ring when screwed in position cannot be removed by hand, and a rolling valve inclosed between the runway and the cap-piece.

4. In an inkwell, the combination with an ink receptacle having an exterior screw-thread at its mouth, of a closure adapted to be screwed on to the receptacle and comprising a metallic cap-piece having a rib by means of which the inkwell may be suspended and a screw-threaded flange, a glass dish-shaped runway having a flange and located within the flange of the cap-piece, a screw-threaded securing ring having a flange and adapted to be screwed into the flange of the cap-piece and against the flange of the runway and to afford means by which the closure may be screwed on to the receptacle, and a rolling valve inclosed between the runway and the cap-piece.

5. In an inkwell, the combination with an ink receptacle, of a closure for the same adapted to engage with the receptacle and comprising a cap-piece having a flange, a runway adapted to lie within the flange of the cap-piece, a ring within the flange of the cap-piece and engaging with the same and with the runway to hold the latter in position against the cap-piece, and a rolling valve inclosed between the cap-piece and the run-way, said cap-piece having a dome-like top provided with a plurality of radial slits through which a pen may be inserted.

HARRY G. CAMPBELL.

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P. H. TRUMAN.