

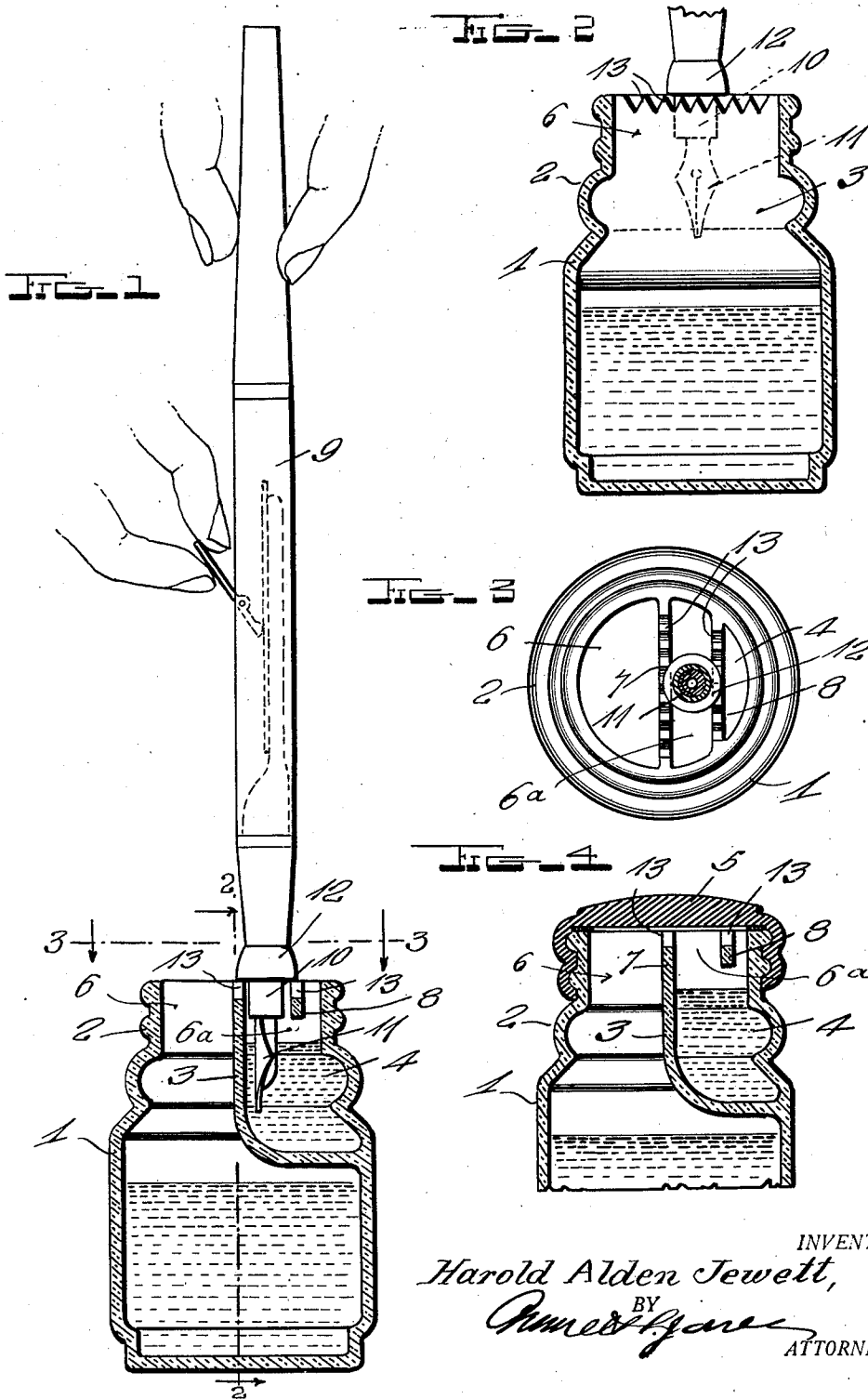
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H. A. JEWETT

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INK BOTTLE OR INK STAND

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INVENTOR.

Harold Alden Jewett,

BY

James H. Jones

ATTORNEY.

UNITED STATES PATENT OFFICE

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INK BOTTLE OR INK STAND

Harold Alden Jewett, Hoboken, N. J.

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This invention relates to an improvement in ink bottles or ink stands, and particularly to means for facilitating and rendering easier and more cleanly the operation of filling fountain pens therefrom.

Much of the ink used at the present time is sold in small or medium sized bottles. The operation of filling a fountain pen or dipping a pen of the quill type into the ink, without having the barrel or grip portion thereof become covered with ink, is very difficult. It is almost impossible to accurately determine the height of a column of ink within a bottle and to place a pen within the neck of a bottle, to a sufficient depth to immerse only the point, without the barrel or grip portion of the pens becoming coated with ink. The usual result is that the pen either does not receive a proper supply of ink or else it is immersed to the extent of coating the barrel or grip portion with ink, involving the necessity of wiping off the surplus ink after each dipping or filling.

For the purpose of overcoming this objection as far as possible and to enable the pen to be more easily dipped into the ink when the bottle is only partly filled, ink bottles have been devised in which a supplementary well or reservoir is provided in the region of the neck of the bottle, which well or reservoir is adapted to be filled from the bottle body by tipping or inverting the bottle while the cover is applied. This construction of bottle with a supplementary reservoir or well, however, only partly overcomes the objection to prior structures, inasmuch as it does not give support to the pen during the filling operation, so that the filling operation is an awkward and inconvenient one, and inasmuch as it is impossible, also, with the well construction to entirely avoid the getting of surplus ink upon the barrel or grip portion of the pen.

The object of my invention is to provide a means, preferably in the form of a support upon the neck of a bottle of that type having a supplementary reservoir or well of the character described, whereby the pen may be sustained during the filling operation and limited in its dipping movement, so as to render the filling operation an easier and more convenient one and at the same time effectually prevent any soiling of the barrel or grip portion of the barrel with surplus ink.

The invention consists of the features of construction, combination and arrangement of parts, hereinafter fully described and claimed, refer-

ence being had to the accompanying drawing, in which:—

Fig. 1 is a sectional view through an open ink bottle embodying my invention and showing a fountain pen supported thereon for a filling operation.

Fig. 2 is a section taken at right angles to that shown in Fig. 1 and on line 2—2 thereof.

Fig. 3 is a sectional plan view on line 3—3 of Fig. 1.

Fig. 4 is a view of the ink bottle as shown in Fig. 1 with the cover cap applied.

While it is to be understood that my invention may be embodied in an ink bottle or ink stand of any type, I have herein shown it applied to a bottle 1 of that type having an upstanding mouth or neck portion 2 and provided with a partition 3 disposed partly within the body portion and partly within the neck portion and forming a reservoir or well 4 in the region of the neck portion to hold a charge of ink separate from the main body of ink contained within the bottle body. The neck 2 is shown as externally threaded to receive a threaded closure cap 5, which may be made of any suitable form and material. The construction is such that when this cap is applied to seal the neck of the bottle the bottle may be tipped over or inverted so as to supply ink from the main charge in the bottle body to the well, for the supply of ink therefrom to the fountain pen or surface of a pen of the quill type. Commonly the partition 3 divides the neck into a passage 6 communicating with the main reservoir in the bottle body and a passage 6a communicating with the well and has a plane-surfaced upper edge which terminates below the plane of the inner edge of the neck to form between it and the applied cap a flow channel for supply of the ink from the bottle body through the passage 6 to the passage 6a in charging the well 4. Such a construction of bottle as that so far described is one of commercial type, designed for the purpose of enabling a fountain pen to be more easily and conveniently filled, but this is open to some of the objections previously described.

In carrying my invention into practice, I form or provide for use upon the neck 2 a support to sustain a pen holder with its pen point in proper operative position to be dipped to a maximum extent into the well. This support comprises a pair of side members or supporting bars 7 and 8 having their upper surfaces located in a horizontal plane flush with the rim surface of the neck 2. In practice, the side member or bar 7 may constitute an integral upward continuation of or

extension from the partition 3 and, therefore, be located in the plane of the vertical portion thereof, while the side member or bar 8 is disposed in the passage 6a, the said side members 7 and 8 being spaced apart a distance sufficient to admit of the downward insertion of the pen point between them while coacting with a stop portion on or adjacent to the end of the pen holder or barrel to support the pen in position and to limit its downward movement into the passage 6a of the well portion of the bottle neck. In the present instance, a type of fountain pen 9 is shown having a reduced forward end portion 10 which receives the staff of the pen proper 11 and above which the holder or barrel is provided with an enlargement 12 forming a stop or abutment, but the support may be used to sustain any other type of fountain pen or quill pen holder. With this illustrated construction of pen holder the pen 11 and end 10 of the pen barrel may be inserted downwardly through the space between the members 7 and 8 of the pen support until the part 12 is brought to rest upon the upper surfaces thereof, whereby further downward movement of the pen holder into the bottle is prevented. When the pen holder is so arranged it will be supported in position and in predetermined relation to the well in the bottle and with the pen 11 immersed to the proper extent in the ink in the well, thus avoiding the necessity of the operator supporting the pen during the filling operation or gaging its extent of projection into the bottle, so that by means of the support the pen to be filled or dipped may be held more easily and conveniently in position without trouble or care on the part of the operator. At the same time, as the support limits the depth of projection of the pen into the well and holds the barrel above the level of the ink therein, any liability of the barrel itself becoming coated with ink is avoided while a full depth of immersion of the pen in the ink is ensured to secure a proper and reliable filling or pen coating action.

In practice, the support may be formed and applied to the bottle in any desired manner. It is preferred, however, to mold it as shown as an integral part of the bottle and of glass or of the same substance of which the bottle is molded or otherwise formed. As the only points of contact between the pen body and bottle are formed by the upper surfaces of the supporting members 7 and 8, which are located at a relatively high point above the level of the ink in both the bottle body and well, little liability exists of any ink finding its way upward to the support and being transferred therefrom to the barrel or grip portion of the pen holder. In order to reduce this liability to a minimum degree, the side bars or members 7 and 8 of the support are preferably serrated, notched or fluted to form saw toothed or attenuated supporting tines or surfaces 13 on the points of which the pen is supported, thus materially reducing the contact area and liability of transfer of ink from the bottle to the pen holder. These saw toothed supporting surfaces also act to prevent the pen from slipping while being supported. In the structure disclosed also the spaces or openings between the teeth or tines of the member 7 form ducts for the flow of ink from passage 6 to passage 6a in a well filling operation, as will be readily understood.

From the foregoing description, taken in con-

nection with the accompanying drawing, the construction and mode of use of my improved pen support for ink bottles, ink stands and the like will be readily understood, and it will be seen that a support of this character is provided which is adapted to effectually perform its intended functions and to enable a pen to be dipped or cleaned in a more ready and convenient manner and with less liability of the pen holder becoming soiled with ink.

While the structure disclosed is preferred, it will, of course, be understood that modifications within the scope of the appended claims may be made, without departing from the spirit or sacrificing any of the advantages of the invention.

What I claim is:—

1. An ink bottle or like ink holder having a mouth portion and a filling well disposed therein and accessible through said mouth portion, and penholder supporting means on said mouth portion comprising partition members, one forming a vertical wall of the well and the other being disposed between said wall and one side of the bottle mouth, said members being spaced from each other and from said side of the bottle mouth to form ink flow passages, one serving to allow downward movement therebetween of the pen carried by the holder into the well, said partitions having upper supporting surfaces provided with spaced projections of small area terminating at their upper portions flush with the rim edge of the mouth to support the penholder and regulate the depth of immersion of the pen into the well.

2. A container for ink having a member disposed therein for limiting the immersion of a penholder during a filling operation, said member having a plurality of upwardly extending substantially knife-edge projections for contact with the penholder end.

3. A container for ink having a member disposed therein for limiting the immersion of a penholder during a filling operation, said member having a serrated surface with upwardly extending substantially knife-edge contact portions and grooved portions therein.

4. In a container for ink having a reservoir portion and a pen filling well, the combination of a penholder supporting member for limiting the immersion of a penholder into the filling well of the container, said member having a plurality of upwardly extending substantially knife-edge projections for supporting contact with the penholder end.

5. In a container for ink having a reservoir portion and a pen filling well, the combination of a penholder supporting member for limiting the immersion of a penholder into the filling well of the container, said member having a serrated surface consisting of upwardly extending substantially knife-edge contact portions and substantially V-shaped groove portions.

6. In a container for ink having a reservoir portion and a pen filling well, the combination of one or more pen holder supporting members for limiting the immersion of a penholder into the filling well, of the container, said members having a serrated surface consisting of upwardly extending substantially knife-edge contact portions and substantially V-shaped grooved portions.

HAROLD ALDEN JEWETT.