H. H. EUVERARD.

INK BOTTLE ATTACHMENT.

APPLICATION FILED OCT. 2, 1914.

1,238,653. Patented Aug. 28, 1917.

Fig. 1.

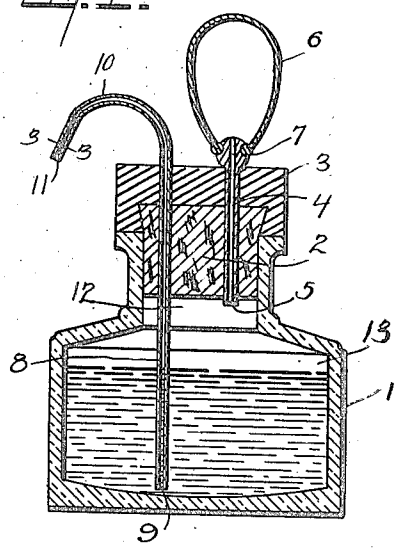


Fig. 2.

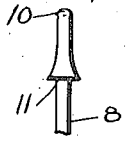


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

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INK-BOTTLE ATTACHMENT.

1,238,653. Specification of Letters Patent. Patented Aug. 28, 1917.

Application filed October 2, 1914. Serial No. 864,601.

To all whom it may concern:

Be it known that I, HOMER H. EUVERARD, a citizen of the United States, residing at Hillsboro, in the county of Highland and State of Ohio, have invented certain new and useful Improvements in Ink-Bottle Attachments; 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 bottle attachments, and one of the principal objects of the invention is to provide means for discharging ink from an ink bottle into the reservoir of a fountain pen or onto a writing pen or drafting pen, without spilling the ink or without permitting the ink to drip from the discharge orifice.

Another object of the invention is to provide an ink discharging device connected to a stopper which may be used in any character of bottle for discharging the ink in a suitable quantity for either filling a pen with the ink or for filling the reservoir of a fountain pen without dripping and the unused ink being drawn back into the bottle automatically.

In the drawing:

Figure 1 is a vertical sectional view of a bottle and stopper and filling device, made in accordance with this invention,

Fig. 2 is a detail view in elevation of the discharging tube and cap, and

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

Referring to the drawing, the numeral 1 designates an ink bottle, which may be of the usual or any suitable construction. Fitted in the neck of the bottle is a stopper 2, said cork or stopper having a cap or cover 3 formed of rubber or other plastic composition secured to the top of the cork to prevent disintegration. Extending through the cap and through the stopper 2 is a tube 4, said tube terminating immediately below the lower end of the stopper as shown at 5. The tube 4 is provided with a small compressible bulb 6 connected to its upper end as at 7 in any suitable manner to provide an air tight joint. A discharging tube 8 also extends through an aperture in the cap 3 and through the stopper 2 and has its intake opening 9 located at a point near the bottom of the ink well 1, said tube having a curved upper end 10 and a suitable discharge nozzle or orifice 11 which is located above the body of the ink in the ink bottle 1 and preferably on a line with or above the cap 3. The orifice 11 may be round or may be flattened out to extend along the nibs of a drafting pen to apply ink thereto in a thin strip or film.

In use the compressible bulb 6 is collapsed or pressed to force air into the space 12 above the surface of the ink 13 and to thus force the ink up through the discharge tube 8 and discharge it in a small quantity through the orifice 11. By proper operation any suitable amount of ink from a drop to a considerable quantity can be discharged at will. Upon releasing the bulb 6 the unused ink is drawn back into the ink bottle 1. While the discharging device is primarily designed for use by draftsmen, it will be understood that an ordinary writing pen may be filled with ink or that a fountain pen reservoir can be filled, by having a fountain pen ink bottle supplied with this attachment, and it will also be understood that the device may be used with any suitable type of bottle so long as the discharge tube 8 is of sufficient length.

Various changes may be made in the details of construction without departing from the spirit and scope of the invention as defined in the claim.

What is claimed is:—

The combination of an ink bottle having a cylindrical neck and provided at the top thereof with an outwardly extending annular flange, a substantially cylindrical cap arranged upon the upper edges of the neck of the bottle and provided with an annular flange or wall of substantially the same diameter as the flange of the neck and of uniform thickness with the same, said flange or wall being provided with an upwardly and outwardly inclined inner face extending upwardly from and merging into the inner face of the neck of the bottle, a cylindrical stopper fitted in the neck of the bottle and having a downwardly tapered enlarged upwardly projecting portion fitted within the flange or wall of the cap and interlocked with the same, a compressed air inlet tube extending through both the cap and the stopper and provided at the upper end with a compressible bulb located above the cap, and a discharge tube also extending through

both the cap and the stopper and having a discharge end or portion terminating in a nozzle, said tubes being located at opposite sides of the center of the stopper and the cap and coacting with the enlarged upper end of the stopper and the flange to connect the cap and the stopper.

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

HOMER H. EUVERARD.

Witnesses:
E. F. KREBS,
C. F. SCHUMACHER.