(No Model.)

N. JOHNSON.

INK BOTTLE AND ATTACHMENT THEREFOR.

No. 396,495. Patented Jan. 22, 1889.

FIG. I.

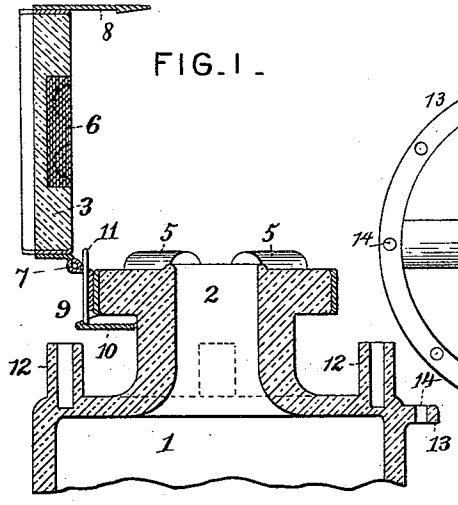


FIG. II.

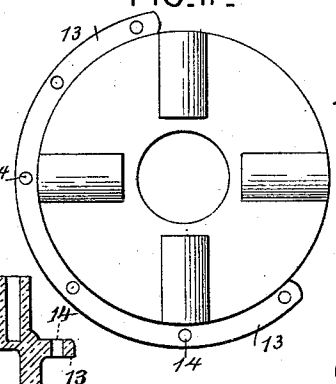


FIG. III.

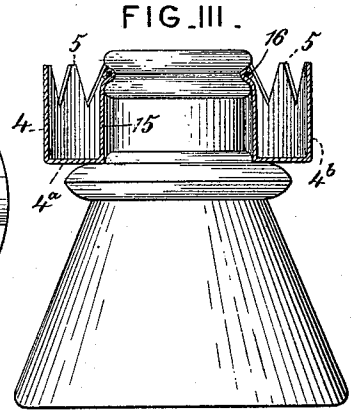


FIG. IV.

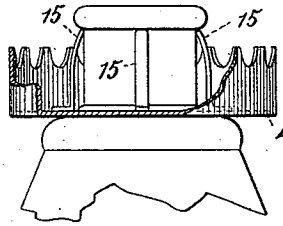


FIG. V.

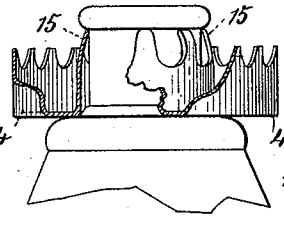


FIG. VI.

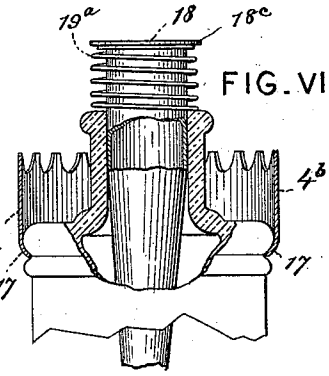


FIG. VII.

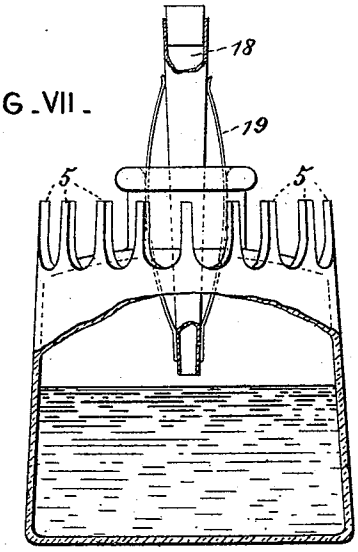
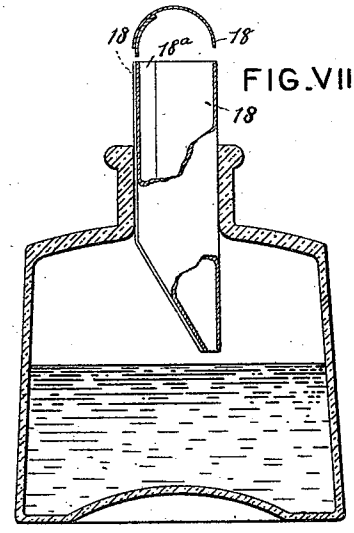


FIG. VIII.



Attest:
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Inventor.
Nelson Johnson
by Knight Bros. Attys

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

NELSON JOHNSON, OF KNOXVILLE, PENNSYLVANIA.

INK-BOTTLE AND ATTACHMENT THEREFOR.

SPECIFICATION forming part of Letters Patent No. 396,495, dated January 22, 1889.

Application filed March 6, 1888. Serial No. 266,373. (No model.)

To all whom it may concern:

Be it known that I, NELSON JOHNSON, a citizen of the United States, residing at Knoxville, in the county of Tioga and State of Pennsylvania, have invented certain new and useful Improvements in Ink-Bottles and Attachments Therefor, of which the following is a specification.

This invention relates to the construction of ink-bottles and attachments to be applied thereto for the purpose of affording means for supporting the pen-holder, and also relates to a dipping attachment to be used in connection therewith, as will be hereinafter more clearly described, and particularly pointed out in the claims.

The invention consists in forming on the shoulder of an ink-bottle surrounding the neck suitable projections between which a pen-holder may be confined and kept from rolling off. These projections are either formed integrally with the bottle when made or they may be made of any suitable material—such as metal—and applied to the bottle in various ways, as by means of spring-catches or by forming a flange for insertion between the two beads at the shoulder of the bottle, or in any other suitable manner; and the dipping attachment consists substantially of a thimble fitting in the mouth of the bottle and adapted to be inserted to any desired extent, whereby the amount of ink into which the pen may be inserted is limited.

In order that my invention may be more fully understood, I will proceed to describe it with reference to the accompanying drawings, in which—

Figure I is a vertical section, and Fig. II is a plan, of one form of my improved ink-bottle having supporting projections, Fig. I showing a hinged cap adapted to close the bottle. Figs. III, IV, V, VI, and VII illustrate different forms of projections and the manner of attaching them. Fig. VIII represents one form of dipping attachment, other forms of which are shown in Figs. VI and VII.

1 represents an ink-bottle having a mouth, 2, and cap 3.

5 represents the projections for confining the pen, and they may consist of semi-cylindrical pieces, as in Figs. I and II, or projections extending from a collar, 4, as shown in Figs. III, IV, V, and VI, or may be formed integrally with and projecting from the shoulder of the bottle, as shown in Fig. VII. These semi-cylindrical lugs or projections are preferably four in number extending radially from the mouth of the bottle at equal distances apart.

The collars 4 consist of a horizontal portion, 4^a, and outer upturned serrated portion, 4^b, the projections 15 extending upward from the inner periphery of the horizontal portion.

In Fig. I the cap 3 is provided with transverse grooves, which are so formed as to coincide with the lugs when the cap is shut down, and a pad or cushion, 6, is fitted in the bottom of said cap and countersunk to about the depth of said grooves, whereby a liquid-tight cap is secured to prevent the evaporation or running out of the liquid. This cap may be secured to the bottle by a customary hinge, 7, and spring-catch 8.

9 is a spring consisting of a semi-annular piece of metal, 10, having a pin, 11, secured to the semi-annular piece and extending vertically through the inner half of the hinge and adapted to come in contact with the outer or upper half when the cap is closed down, whereby the semi-annular spring is depressed and its inertia tends to elevate the cap when the catch 8 is released.

12 are pins or projections inserted into or formed integrally with the shoulders of the bottle and adapted to hold a pen in place. These pins have longitudinal apertures extending through them, into which may be inserted another pin in case the former should become broken.

13 represents an annular flange extending more or less around the bottle, and provided with perforations 14, into which may be inserted pins, for the purpose above described of the pins 12.

Fig. II represents in plan lugs or projections as applied to an ordinary paper inkstand, and they may be secured thereon or molded on the top of the bottle.

Referring now to Figs. III to VI, inclusive, the collar 4 is cut out sufficiently to allow the same to be passed over the head of the bottle, and has upturned projections 15, which are made to fit closely around the groove in the neck of the bottle, and may either be secured

by means of a wire, 16, or else they may be made of spring metal and have their ends adapted to engage beneath the lip, or in a groove formed between the lip and bead beneath the lip. In this latter case, as also, if preferred, in the former, I find it advantageous to have the spring projections 15 of such length as to confine the collar between the lip and shoulder of the bottle. It is evident that these projections 15 may be formed of upturned portions of the metal cut away for insertion of the neck, or they may be of any preferred material secured to the collar.

In Fig. VI is shown a collar secured to the groove formed around the shoulder of the bottle, such securing being effected by means of inturned portions 17, which are so formed on the lower edge of the collar as to produce when turned in a continuous flange extending into the groove.

Fig. VII, as above stated, represents the same construction of attachment formed integrally with the bottle. The projections here are preferably inclined inward, for the reason that in this form they are better adapted for serving their purpose.

Referring now to the dipping attachment, (see Figs. VI, VII, and VIII,) 18 is a thimble, conical in shape and having a lower aperture of convenient size to allow a pen to pass partly therethrough, but to prevent the pen-holder passing into the ink. This thimble is adapted to be supported at any desired elevation in the mouth of the bottle by means of springs 19, secured to one end and bearing loosely at the other, as shown in Fig. VII, the intermediate parts of said spring being slightly bowed. The upper end of this thimble is large enough to conveniently admit a pen-holder, and may be closed by a stopper for excluding flies.

Fig. VIII represents a modification of the above-described dipping attachment, and consists, essentially, of a cylindrical upper portion and a conical lower portion, the whole being formed of a single piece of metal and having overlapping edges 18^a, whereby the same is collapsible, and thereby adapted to fit and retain its position in place in the mouth of an ink-bottle.

In Fig. VI is shown a thimble having a spring, 19^a, coiled on the upper part thereof, confined between the flange 18^c and mouth of the bottle, and adapted to return the thimble when the same is pressed down while inserting the pen. Thus the thimble is normally out of the ink; but its end may be immersed when it is desired to dip the pen.

The projections above described may be made to extend above the mouth of the bottle, if preferred, though in the construction I have shown they project not quite to the top of the bottle, and the pen-holder or pencil is supported between the neck of the bottle and the outer projections, or they may be supported in two depressions, according to the construction of the collar. The ribs and grooves in the bottle and cap are both adapted to support a pen-holder when the cap is opened.

It will be seen that from the construction described, with the spring projections for engaging beneath the lip of the bottle, the collar may be easily removed, and furthermore may be applied to any bottle of similar construction.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

1. In combination with an ink-bottle, two or more transverse ribs or projections formed radially across the head or shoulders of the bottle for supporting a pen, substantially as herein described.

2. The combination, with an ink-bottle having two or more transverse projections or ribs formed on its head, of a hinged cap having corresponding grooves or depressions, whereby the same is adapted to close tightly upon said head, as shown, the said ribs and depressions serving for the support of the pen-holder when the bottle is open, as herein set forth.

3. An ink-bottle having a number of upwardly-extending pins or projections on its shoulder, substantially as and for the purpose set forth.

4. An ink-bottle having on its shoulder a number of upwardly-extending perforated pins or projections arranged circumferentially, as and for the purposes set forth.

5. An ink-bottle having a number of pins or projections on its shoulder extending upwardly and inclined inwardly, as and for the purpose set forth.

6. The combination, with an ink-bottle, of a horizontal annular flange or collar surrounding the same, said flange having perforations for the insertion of pins, for the purpose set forth.

7. The combination, with an ink-bottle, of a collar thereon having a number of upwardly-extending projections, for the purpose herein set forth.

8. The combination, with an ink-bottle, of a collar having a horizontal portion and an upturned portion or flange, said upturned portion being serrated or notched and said horizontal portion being secured to the neck or shoulder of the bottle.

9. The combination, with an ink-bottle, of a collar, 4, consisting of horizontal portion 4^a, upturned portion 4^b, and projections 15, for supporting it on the neck of the bottle, as set forth.

10. In combination with an ink-bottle, a collar, 4, consisting of the horizontal portion 4^a, upturned serrated portion 4^b, and projections 15, for supporting the collar on the bottle, said projections being secured around the neck of the bottle by a wire, 16, as set forth.

11. In combination with an ink-bottle, a collar, 4, consisting of the horizontal portion 4^a, serrated portion 4^b, and spring projections 15,

for supporting the collar on the bottle, substantially as set forth.

12. An ink-bottle having formed integrally therewith a circumferentially-arranged series of substantially vertical projections, substantially as described.

13. A dipping attachment for ink-bottles, consisting of the tube 18, fitting to said bottle and having overlapping edges, whereby the same is rendered collapsible, substantially as described.

14. In combination with an ink-bottle, a tube, 18, fitting in said bottle and having a spring, 18^b, coiled on it and confined between the flange 18^c and mouth of the bottle, as herein set forth.

15. In a dipping attachment for ink-bottles, the combination of the conical thimble 18 and the springs 19, secured thereto, substantially as and for the purpose set forth.

NELSON JOHNSON.

Witnesses:
E. H. MASON,
J. C. GOODSPEED.