

(No Model.)

P. LINDEMAYER, Jr.
HOLDER FOR INK OR OTHER SUBSTANCES.

No. 580,052.

Patented Apr. 6. 1897.

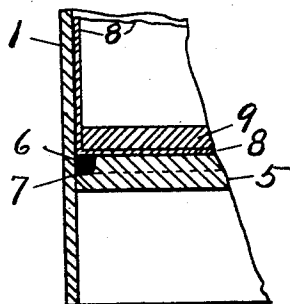
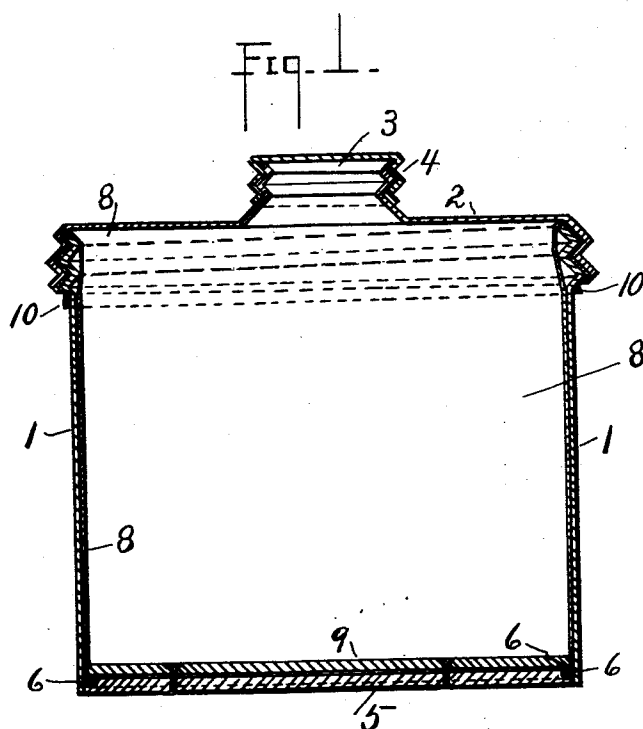


Fig. 2.

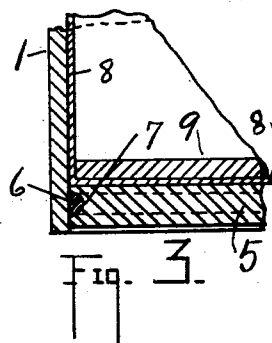


Fig. 3.

Witnesses

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UNITED STATES PATENT OFFICE.

PHILIP LINDEMAYER, JR., OF BALTIMORE, MARYLAND.

HOLDER FOR INK OR OTHER SUBSTANCES.

SPECIFICATION forming part of Letters Patent No. 580,052, dated April 6, 1897.

Application filed October 7, 1896. Serial No. 608,119. (No model.)

To all whom it may concern:

Be it known that I, PHILIP LINDEMAYER, Jr., a resident of Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Holders for Ink or other Substances; 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 pertains to make and use the same.

The invention relates to holders for printers' ink and like substances, and has for its object to provide for the easy and suitably-regulated discharge of the contents of the holder and to preclude evaporation or hardening of the contents; and the invention consists in the construction hereinafter described and particularly pointed out.

In the accompanying drawings, Figure 1 is a vertical section of an ink-holder, and Fig. 2 is a partial section. Fig. 3 is a partial section of a modified detail.

N numeral 1 denotes the body of the holder, provided with a cap 2. Said cap is preferably made removable, as by a screw-thread connection with the body, to facilitate charging the holder. It is provided with a discharging mouth or nozzle 3, preferably screw-threaded to receive a screw-cap 4.

The parts thus described are of known form and can be spun or formed out of sheet metal in any usual or convenient manner.

The cap 2 is by preference made easily removable to provide for the convenient refilling and reuse of the holder and is an important feature in cases designed for viscous and semifluid substances. Such substances, however, are more conveniently discharged through a nozzle of less size. The cap can be connected to the holder in any known manner.

5 indicates a movable bottom provided with a packing or friction ring 6. This bottom is conveniently made of wood and the packing of metal or rubber seated in a circumferential groove 7, formed therein. The object of the packing is to hold the bottom at any elevation to which it may be pushed within the holder, and its purpose and function are to insure sufficient friction. Any known means for effecting the said object may be employed.

8 denotes an ink-holding sack, which may

be made of Manila-rope paper or other paper or of cloth, leather, or other suitable flexible material which has been made impervious to ink or like substances or any of their ingredients by an oil-proof or an oil and water proof coating.

The ink-sack is secured to the bottom 5 preferably by a similarly-shaped disk 9, of wood, placed within it and tacked or otherwise fastened to said bottom. The foot of the sack is distended by the disk, which also affords a secure and convenient means for connecting the sack and bottom. The sack is by preference provided at its open end with a fold 10, within which the edge of the holder is inserted before the cover 2 is fastened thereon. By this means the mouth of the sack is securely held fully open. In some cases the edge of the sack-mouth can be bent or stretched over the edge of the holder-body without previously forming a turned-back fold 10. The upper end of the sack packs the joint between the cap and holder. The sack being filled with any desired material and held within the box or holder in the manner specified is emptied by pushing up the movable bottom 5 with the effect to force out of the open nozzle 3 more or less of its contents, as desired. When the holder is thus partially emptied, the movable bottom maintains the position to which it is pushed (see Fig. 2) in the discharging operation, and it holds the superincumbent contents of the holder in a compact mass pressed against the walls and cover of the holder, thus precluding either evaporation or the entrance of air, by which the contents might be injured. In the case of ink this is important to prevent alteration of its consistency and particularly to prevent such change on its surface whereby an objectionable "skin" would be formed.

The holders can in practice be made of uniform or standard sizes sufficient to hold one, two, or more pounds or any desired quantity each of inks, paints, or other materials and may be made large enough to hold in the desired quantity those grades or kinds having the least specific gravity. Provision can be made for heavier grades by suitably adjusting the movable friction-held bottom.

The use of the impervious sack in the manner described effectually prevents leakage by

"creeping" or by pressure due to evaporation or expansion, and it obviates the necessity of a very exact and close joint between the bottom and the holder. These parts, 5 therefore, can be cheaply made without tooling and out of cheap material. The sack also obviates the drying of material in a practically-emptied holder, whereby its reuse would be rendered inconvenient, if not im- 10 practicable.

Having described my invention, what I claim is—

1. In a holder for ink or other materials, the combination of a body, a movable bottom, 15 and a flexible sack secured to said bottom and having its open mouth attached to the body, by means of a cover, the sack packing the joint between the cover and body, substantially as described.

2. In a holder for ink or other materials, the combination of a body, a movable bottom,

a friction-ring to hold the bottom in any situation desired, and a flexible sack secured to said bottom and having its open mouth attached to the body, the bottom of the sack 25 being distended by an internal disk and said disk attached both to the sack and the movable bottom, substantially as described.

3. In a holder for ink or other materials, the combination of a body, a movable bottom, 30 a flexible sack secured to said bottom and having its open mouth removably attached to the body of the holder, and a removable cap 2 provided with a discharge-nozzle 3, closed by a suitable stopper, substantially as described. 35

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

PHILIP LINDEMEYER, JR.

Witnesses:

FRANK D. BLACKISTONE,

BENJ. R. CATLIN.