

M. SVALLAND.
 INK DISPENSING DEVICE.
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1,125,892.

Patented Jan. 19, 1915.

Fig. 1.

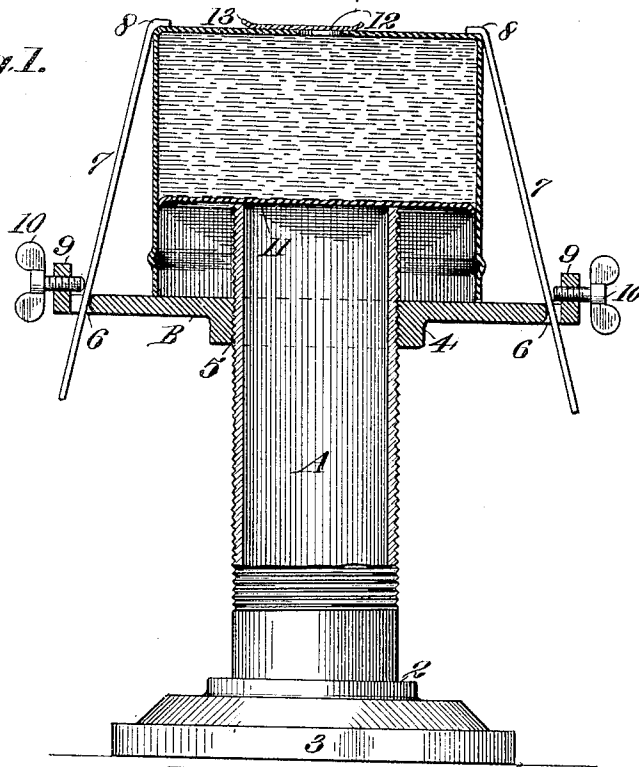
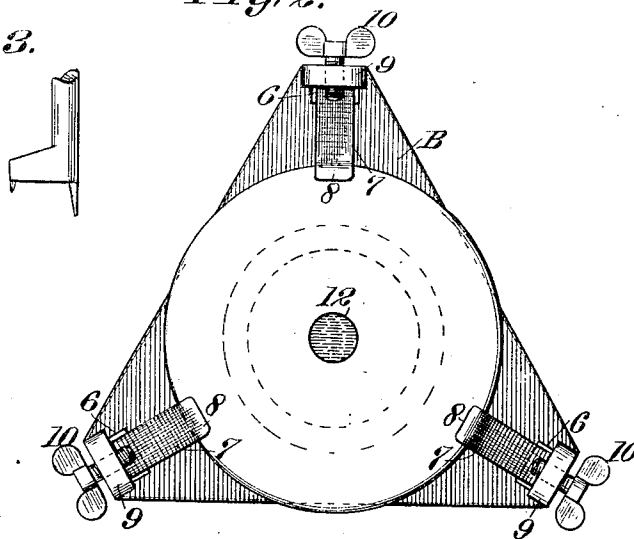


Fig. 2.

Fig. 3.



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INK-DISPENSING DEVICE.

1,125,892.

Specification of Letters Patent.

Patented Jan. 19, 1915.

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To all whom it may concern:

Be it known that I, MARTIN SVALLAND, a citizen of the United States, residing at Oakland, in the county of Alameda and State of California, have invented new and useful Improvements in Ink-Dispensing Devices, of which the following is a specification.

This invention relates to an ink dispensing device.

It is one of the objects of the present invention to provide a simple, cheaply manufactured, easily operated ink or like dispensing device provided with a holder which is so constructed that ink containing cans of various diameters and lengths may be handled without changing or adjusting the size of the holder.

Another object of the invention is to provide means for preventing the contents of the can from coming into contact with the air, after the can has once been opened and placed in position on the holder.

A further object is to provide means which will insure a complete discharge from the can, thus preventing any hardening or waste of the contents.

The invention consists of the parts and the construction and combination of parts as hereinafter more fully described and claimed, having reference to the accompanying drawings, in which—

Figure 1 is a vertical section of the holder, showing the ink can in position. Fig. 2 is a plan view. Fig. 3 is a detail view of a suitable form of can perforating tool.

Referring to the drawings, A indicates a vertically disposed threaded shaft or tube of suitable length secured, as at 2, in a base-plate 3.

B indicates a triangular shaped plate or holder provided with a hub extension 4, internally threaded, as at 5, to fit the shaft or standard A. The outer ends of the triangular plate B are provided with slots 6 through which project arms 7 having hook-like ends 8 formed at their upper ends. The outer ends or corners of the triangular plate are also provided with upwardly extending lugs 9 which are provided with threaded openings in which are turnable thumb-screws 10.

In operation, when placing the can in position upon the dispensing device, the following takes place: The standard form of

can containing ink when received by the printer is first opened by removing the cover. A circular disk or plunger 11 conforming with the interior diameter of the can is then placed within the can in contact with the surface of the ink. The can is then inverted and placed in the position shown in Fig. 1 where the disk 11 will rest in concentric position upon the upper end of the threaded standard A. The arms 7 are then dropped through the slots 6 until the upper hook-shaped ends of same engage with the bottom of the can. The thumb-screws 10 are then tightened, thus forcing the arms inwardly for the purpose of clamping the can. A suitable perforating tool, indicated in Fig. 3, is then placed in the center portion of the bottom of the can which now represents the top surface of same. A hole 12 is then cut with the tool and that portion of the metal removed. The triangular plate B is then turned upon the threads so as to cause it to move in a downward direction upon the standard. The downward movement of the plate B will thus be transmitted through the arms 7 to draw the can in a downward direction upon the standard, causing the disk or plunger 11 to force a portion of the ink within the can through the opening 12 formed in the bottom of the can. Any suitable quantity of ink may thus be discharged from same. The moment a required quantity of ink has thus been discharged it can easily be seen that it may be removed by a knife or like device, and the opening 12 may then be sealed by placing a piece of paper or similar material 13 over the opening. The paper or other material coming in contact with the ink will thoroughly adhere to this and prevent any admission of air at this point. The disk 11 closing the other end of the can further prevents the admission of air at that point. The contents of the can is thus thoroughly protected at all times and prevented from spoiling or hardening and a complete discharge of the contents is insured for the reason that the disk 11 may be forced into direct contact with the bottom of the can.

The construction and adjustment of the arms 7 permit the use of various sizes and diameters of cans, and the length of the upright standard A is such that any length of can may be secured. The pressure of the thumb-screws 10 upon the arms 7 is suffi-

cient to hold the can in concentric position with relation to the standard A and the hooked ends 8 positively prevent the removal of the can before the thumb-screws are unloosened.

The dispensing device constructed as here shown is simple and positive in operation and will at all times prevent the admission of air to the contents of the can either when full or partly emptied and any waste or hardening of the ink is thus prevented.

The materials and finish of the several parts of the device are such as experience and judgment of the manufacturer may dictate.

Having thus described my invention, what I claim and desire to secure by Letters Patent is—

1. In an ink dispensing device, a can having a perforation formed in the bottom thereof, a rigid threaded standard, a slotted plate on said standard, a disk conforming with the interior of the can on said standard, arms slidable in said slots of the plate and having hook-shaped members formed on their upper ends engageable with the edge of the can, and means for securing the arms on the plate.

2. In an ink dispensing device, a can having a perforation formed in the bottom thereof, a rigid threaded standard, a slotted plate on said standard, a disk conforming with the interior of the can on said standard, arms slidable in said slots of the plate and having hook-shaped members formed on their upper ends engageable with the edge of the can, and means for forcing the arms inwardly to clamp the can and secure the arms on the plate.

3. In an ink dispensing device, a can having a perforation formed in the bottom thereof, a rigid threaded standard, a slotted plate on said standard, a disk conforming with the interior of the can on said standard, arms slidable in said slots of the plate and having hook-shaped members formed on their upper ends engageable with the edge of the can, an upwardly extending lug

formed on the plate in front of each slot, and thumb-screws in said lugs engageable with the arms at substantially right angles thereto to lock the arms and clamp the can on the plate.

4. In an ink dispensing device, a base, an exteriorly threaded vertical post rigidly secured at its lower end to the base, a disk on the upper end of the post, a plate for supporting the ink can having an interiorly threaded opening which receives the post threads, said plate having openings and upwardly extending lugs provided with threaded openings, thumb screws engaged in the last named openings, and arms having hook shaped upper ends which bear against the can bottom and having their lower ends passed through the respective plate openings and engaged on the outer sides thereof by the inner ends of the thumb screws.

5. In an ink dispensing device, a portable base having its under face for seating engagement on a supporting surface, a post having its lower end rigidly secured to the base, a disk on the upper end of the post, a plate surrounding and vertically movable on the post, for receiving the ink can, and means to connect the can to the plate whereby the can will partake of all of the movements of the plate.

6. In an ink dispensing device, a portable base having its under face for seating engagement on a supporting surface, a post having its lower end rigidly secured to the base, said post being adapted to support a plunger on its upper end, and an ink can carrier mounted over the exterior of the post and movable with the can toward the base.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

MARTIN SVALLAND.

Witnesses:

JOHN H. HERRING,
W. W. HEALEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."