

(No Model.)

L. A. HARKER & C. H. AMANN.

GLASS CAN CAP.

No. 310,051.

Patented Dec. 30, 1884.

Fig. 1.

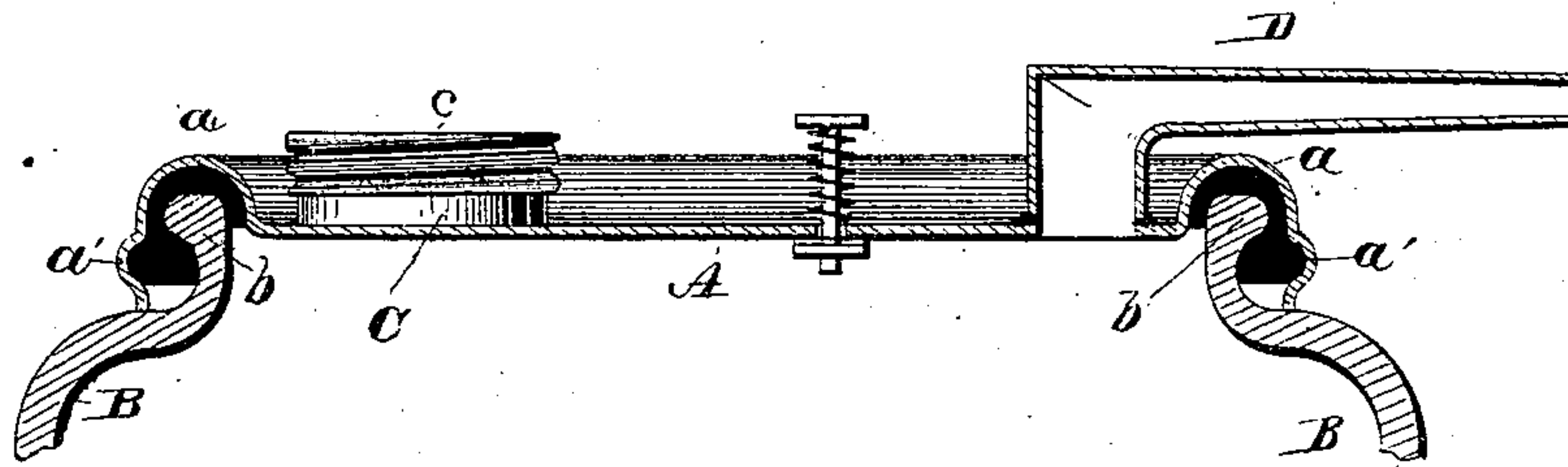
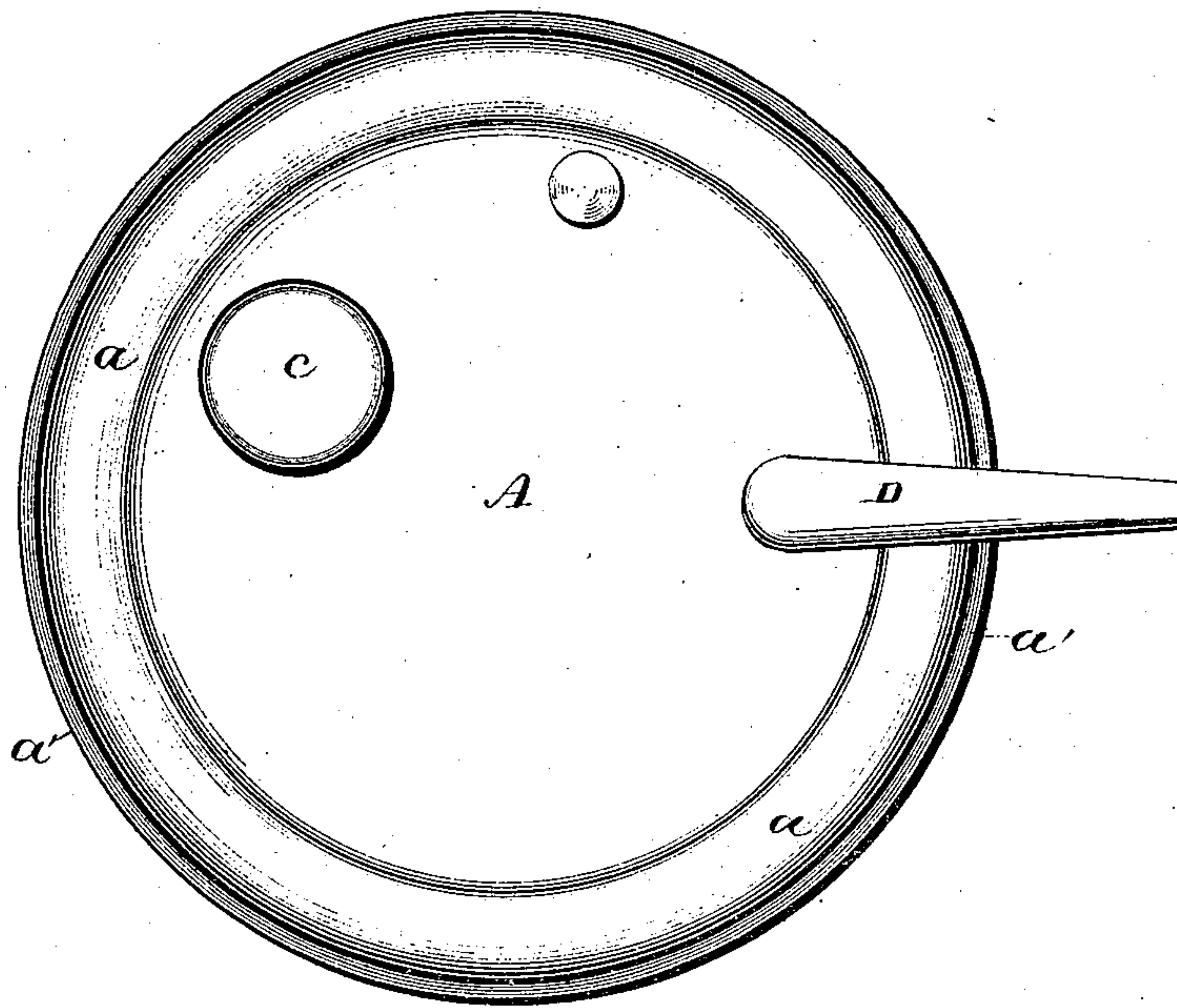


Fig. 2.



WITNESSES

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# UNITED STATES PATENT OFFICE.

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## GLASS-CAN CAP.

SPECIFICATION forming part of Letters Patent No. 310,051, dated December 30, 1884.

Application filed April 16, 1884. (No model.)

*To all whom it may concern.*

Be it known that we, LEWIS A. HARKER and CHARLES H. AMANN, of Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Glass-Can Caps; and we 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.

Our invention relates to an improvement in caps for glass oil-cans, the object of the same being to provide a cap of such shape that it will form an effective joint about the top of a glass can. A further object is to provide a cap having a raised rim to prevent the oil-drippings from passing down the sides of the can.

Our invention further consists in certain features of construction and combinations of parts, as will be fully described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a sectional view through the center of the cap and upper portion of the glass can, and Fig. 2 is a plan view of the cap.

A represents a metal cap provided with the raised border *a*, which extends upward over the edge of the can and downward on the outside of the can to a point preferably a little below the general level of the central portion of the cap. The cap A is further provided near its outer edge with an annular groove, *a'*, formed by pressing the metal outward. For the purpose of receiving this cap advantageously the upper portion of the rim of a glass can, B, is formed thicker, or has an outwardly-extending projection, *b*. The space intervening between the rim of the glass and the inner surface of the curved rim *a* is filled with cement, which, when it hardens, forms a joint, which not only locks the cap securely in its position on the can, but effectually prevents all danger of leakage.

For the purpose of filling the can the cap is provided with a tube, as shown at C. The tube C may be of any approved construction, preferably having a screw-cap, *c*, as commonly constructed.

In filling a can with oil there is always a

liability to spill a few drops, more or less, on the outside of the filling-tube. In many forms of caps heretofore constructed this oil would flow down the side of the can, and if the can were cased with metal, as is customary, would be retained between the glass and metal, where it would be impossible to wipe it off, thus becoming a source of annoyance. The depressed central portion of our improved cap prevents any trouble of this kind, as the oil is held on the cap until wiped off or allowed to enter the can. For this latter purpose a small hole may be left in the cap and serve as a vent; or a spring-actuated valve, as represented in Fig. 1, may be used to close the vent. This valve is similar in construction and operates on the same principles as the valve explained in Letters Patent No. 255,109, granted to Lewis A. Harker March 21, 1882, and forms no part of our present invention. The cap is also provided with a suitable spout, D, secured conveniently near its outer edge.

The construction of the cap herein described is such that it may be readily stamped out of a single piece of metal, which renders it quite inexpensive, and at the same time it possesses all the more important features of excellence found in the more complicated and expensive forms.

It is evident that slight changes may be made in the construction and arrangement of the several parts without departing from the spirit and scope of our invention. We do not, therefore, wish to limit ourselves strictly to the construction herein set forth.

We are aware that it is not new to stamp a can-cover out of a single piece of metal, and that a cover has been constructed with a strip of metal a short distance from the inner surface of the mouth of the glass can for holding cement upon both sides of the said glass mouth. We do not, therefore, claim the same, broadly; but,

Having fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The combination, with a glass can, of a metal cap having a filling-orifice and discharge-spout, and constructed to loosely embrace the inner and outer surfaces of the glass rim, and



also having a depressed central portion, said cap being secured to the can by cement, substantially as set forth.

2. The combination, with a glass can having  
5 a rim provided with an annular projection, of a cap formed of a single piece of metal, and provided with a filling orifice and discharge-spout, said cap being constructed to loosely embrace the inner and outer surfaces of the  
10 glass rim, and having a depressed central portion, the cap being secured to the can by cement, substantially as set forth.

3. As a new article of manufacture, a cap  
15 for a glass can, formed of a single piece of metal, bent to embrace the inner and outer surfaces of a glass mouth, said cap having a depressed central portion and corrugated rim, and a discharge-orifice and filling-spout located within said corrugated rim, substantially  
20 as set forth.

4. In combination with a glass body, the top composed of a single piece of sheet metal, forming a cover for the mouth of the body, the internal and external annular flanges having

the groove between them, and provided with 25 a filling-orifice and discharge-spout.

5. The combination, with a glass body, of a top composed of a single piece of metal having a depressed center or cover for the mouth, a rim surrounding the depressed center, and 30 an external flange, and provided with a filling-orifice and discharge-spout, substantially as set forth.

6. A sheet-metal top composed of a single piece of sheet metal having a depressed central 35 portion, the rim surrounding said central portion, and an external flange, and provided with a filling-orifice and discharge-spout, substantially as set forth.

In testimony whereof we have signed this 40 specification in the presence of two subscribing witnesses.

LEWIS A. HARKER.  
CHARLES H. AMANN.

Witnesses:

J. R. BOWDLE,  
H. BANCROFT.