(No Model.)

A. ABRAHAMSON.

MILK OR COFFEE FLASK.

No. 325,806. Patented Sept. 8, 1885.

Fig. 1.

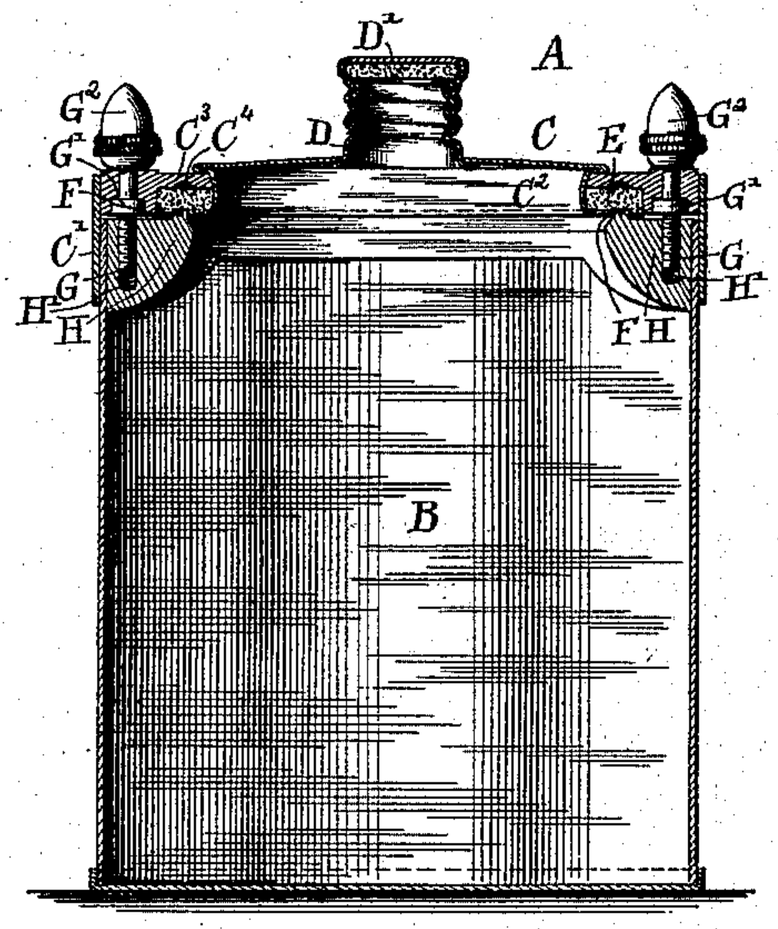


Fig. 2.

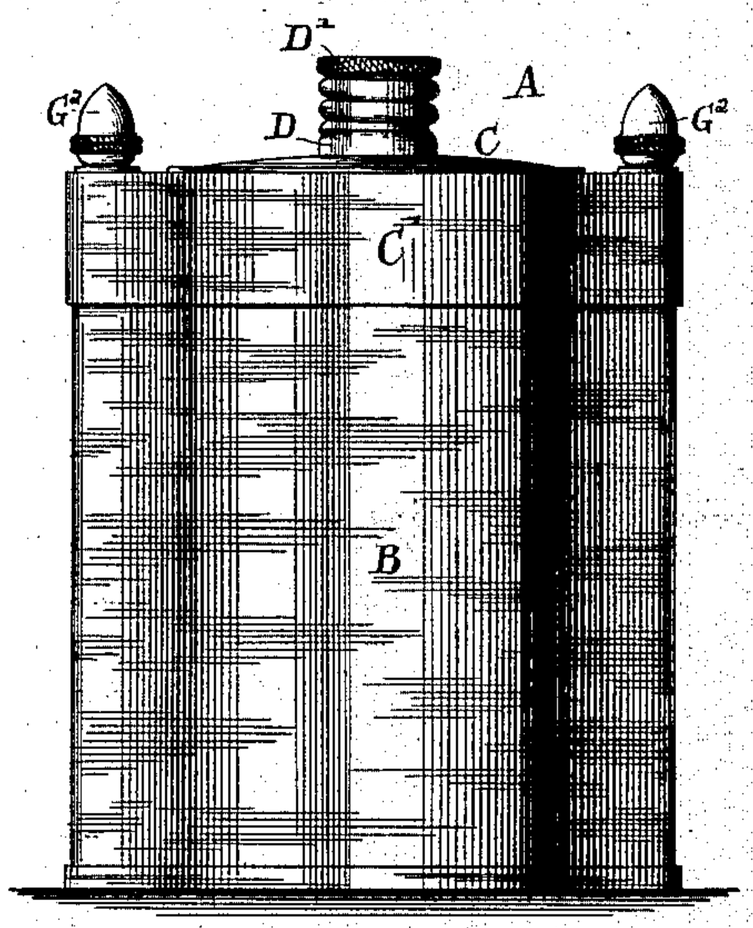


Fig. 3.

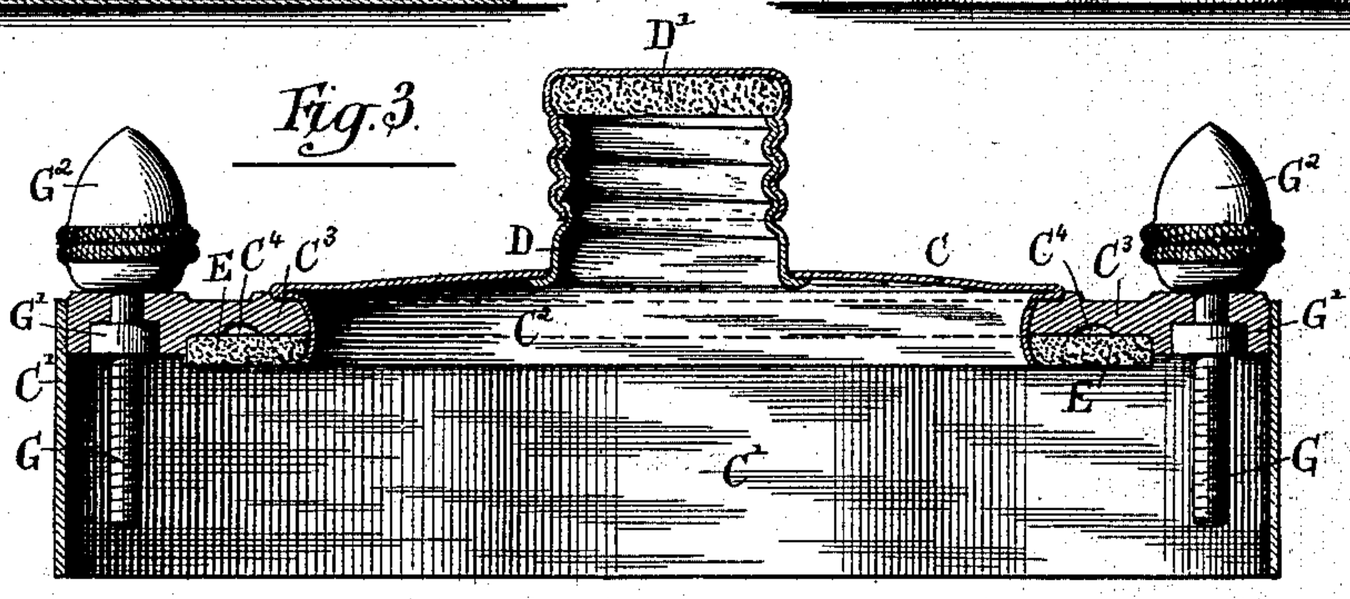
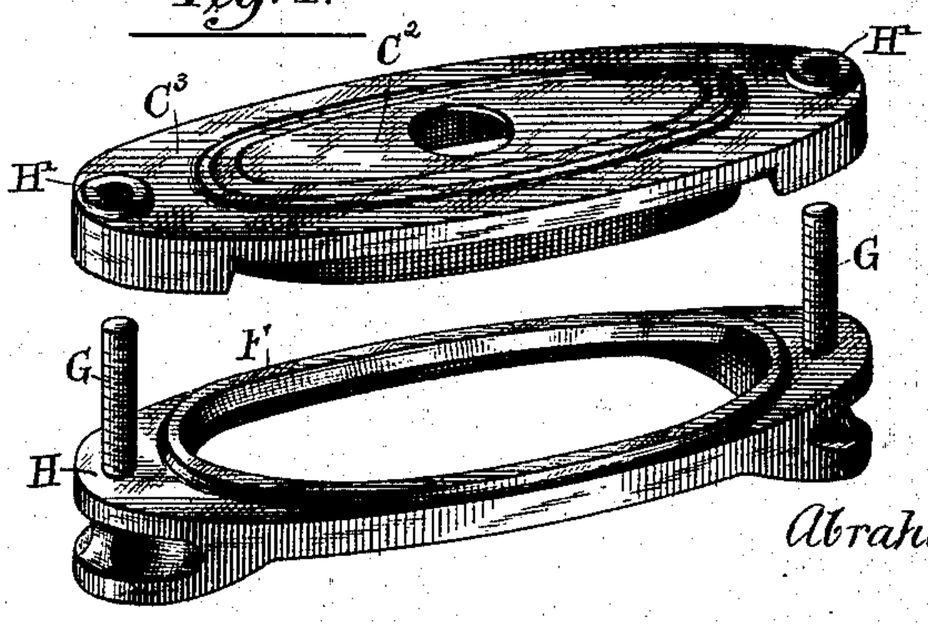


Fig. 4.



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UNITED STATES PATENT OFFICE.

ABRAHAM ABRAHAMSON, OF CHICAGO, ILLINOIS.

MILK OR COFFEE FLASK.

SPECIFICATION forming part of Letters Patent No. 325,806, dated September 8, 1885.

Application filed February 24, 1885. (No model.)

To all whom it may concern:

Be it known that I, ABRAHAM ABRAHAMSON, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Milk or Coffee Flasks; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in the construction of milk or coffee cans or flasks, and especially to those designed to be carried in the pocket of the user.

The main objects are to provide a construction whereby the can or flask may be opened in a manner to expose and render its entire interior area readily accessible for the purpose of either cleaning out the same or for conveniently filling it without the aid of a funnel, and also to adapt the same vessel to be closed and sealed so long as may be required, and while in such condition to be emptied of its contents, as needed, by simply removing an ordinary screw or other stopper, so as to permit a discharge of the liquid without necessitating the opening of the can, in the manner previously employed for washing and filling it.

To such end my invention consists in the matters hereinafter described, and particularly pointed out in the claims.

In the drawings, Figure 1 is a vertical section through a can or flask embodying the features of my invention. Fig. 2 is a side elevation of the same. Fig. 3 is an enlarged vertical section through the cover. Fig. 4 is a detail perspective showing certain rigid bearings respectively belonging to the cover and the body of the can or flask.

A represents the can or flask as an entirety, B being the body portion, and C the cover therefor. The can or flask herein shown is, so far as its general shape is concerned, modeled after a common or convenient form of flat pocket-flask, the sectional outline of which is usually that of an elongated ellipse.

The body B is closed at the bottom and open at the top, the entrance at the top end being practically equal to the sectional area of the body, so as to render the entire interior portion of the body readily accessible when the cover is removed therefrom.

The cover consists of a flanged cap which is adapted to fit upon and close the top end of the can or flask body, and it is provided with an ordinary central discharge-aperture and a stopper therefor, the preferred construction being that of a threaded neck, D, surrounding the aperture, and a small sheet-metal cap, D′, provided with the usual internal packing or washer, and adapted to be screwed down upon the threaded neck or nipple.

The cap or cover C is intended to be drawn down and locked upon the can or flask body, and in order to provide between the two an air-tight joint one or the other, but preferably the cover, is provided with an elastic gasket or washer, E, secured to its inner or under side, and the body is provided with a continuous single or double rib, F, arranged at its top end, so that when the cap is fitted upon the body the washer can be forced against the rib or ribs, which press into the yielding material.

The devices herein employed for locking the cap upon the can or flask body consist of screws G, carried by one member as a fixture thereon, and designed to engage suitable bearings in or on the other member.

In Figs. 1 and 3 the screws are rotatably held in bearings in the cap, and extend down therefrom so as to permit them to enter bearings in or on the body portion of the can or flask at such times as the cap is applied to close the same. In Fig. 4 the screws are shown permanently secured to and extending up from the bearing part of the can-body, the cap in this instance being provided with apertures through which the screws may pass when the cap is closed. The knobs G^2 in Figs. 1 and 3 are rigid with the screws and serve merely as heads therefor; but in Fig. 4 the knobs or heads will be adapted to fit and turn upon the screws, so as to operate as tightening-nuts, which may be turned down against the cap when applied to the ends of the screws projecting above the latter.

The construction of the cap or cover with reference to either arrangement of screws is as follows: The flange C′ of the cap is made of suitable sheet metal, as is also the central portion, C^2. These two comparatively slight and thin portions are united by a heavier and

rigid intermediate portion, C^3, of some suitable cast metal or metallic composition, which may be soldered or cast or otherwise secured to the adjacent sheet-metal portions, as preferred. The rigid portion C^3 affords a firm, strong backing for the washer E, and also provides appropriate bearings for the fastening-screws, whether the same are carried by the cap or the can-body.

The can or flask body is, like the flange of the cap, preferably composed of sheet metal, and is at its top end provided with an internal rigid ledge or ring, H, formed of cast metal or some suitable metallic composition, and either cast or soldered to the body. This ledge also affords substantial bearings for the screws, which, when carried by the cap or cover, may engage in threaded sockets H′ in the ledge when the cap is closed, as in Fig. 1, or which, when carried by the can or flask body, may be embedded at their lower ends in the material of the ledge, so as to be rigid therewith and stand up ready to receive the cap, as in Fig. 4. The ledge also acts in conjunction with the washer E to form a tight joint when the cap is closed, for which purpose the rib or ribs F of the can or flask body are formed upon the ledge at a point back of the screws or the bearings therefor. The screws, when carried by the cap, are rotatively connected therewith, so as to prevent their being lost when the cap is removed from the can-body, for which purpose each screw has a shoulder, G′, countersunk in a recess in the under side of the rigid portion C^3, while the knob or screw-head G^2 bears against the top side of the cap or cover.

The washer E may be secured in any way to the under side of the cap; but the preferred mode is to flange the central portion, C^2, of the cap, and extend the flange below the rigid portion C^3, thus providing a lip which can be turned up against the under side of the washer.

The rigid portion C^3 of the cap is rabbeted or cut away around its inner edge, so as to form in its under side a shoulder or continuous seat in which the washer will be securely held by the turned-up edge of the flange.

When the cap or cover is fitted upon the can or flask body and the screws tightened up, the washer E yields to the ribs F, and thus permits the part C^3 of the cap to seat upon the ledge H of the body when the ribs have been forced into the washer.

The cover is preferably provided with a continuous groove, C^4, arranged in its under side and back of the washer or cushion E, this groove being opposite the single or double rib F of the can-body when the cover is fitted on the latter. The purpose of said groove is to provide space for accommodating a portion of the elastic washer when the latter is pressed down upon the rib of the can or flask body.

Screw-cap D may be removed to permit the flask or can to be emptied of its contents; but for filling or washing out the flask or can the main cap or cover C will preferably be removed.

What I claim is—

1. The combination, with a sheet-metal can or flask body provided with an internal ledge of cast metal secured to the open top of the body, of a cover having a discharge-aperture and stopper therefor, and provided with a rigid portion, C^3, opposed to the ledge when the parts are placed together, an elastic washer interposed between the rigid part of the cover and the ledge, and fastening-screws for holding the cover upon the body, substantially as described.

2. The combination, with a sheet-metal can or flask body provided with an internal rigid ledge of cast metal secured to the open top of the body, of a sheet-metal cover provided with a discharge-aperture and stopper therefor, and having a rigid portion, C^3, opposed to the ledge when the cover is in place, an elastic washer interposed between the rigid portion of the cover and the ledge of the body, and fastening-screws engaged with the said rigid part of the cover and the ledge for holding the cover upon the body, substantially as described.

3. The combination, with the sheet-metal can or flask body B, having an internal cast-metal ledge, H, secured to the body, and provided with one or more ribs, F, of a cover provided with a rigid portion, C^3, a washer secured upon said rigid portion of the cover, and fastening-screws connecting the said rigid part of the body and the ledge, substantially as and for the purpose set forth.

4. The combination, with a can or flask body, of a removable cover constructed with a marginal flange and a central portion of sheet metal, a cast-metal portion intermediate of and rigidly uniting its said sheet-metal portions, and suitable fastening or binding screws, for which the rigid cast-metal part of the cover provides appropriate bearings, substantially as described.

5. The combination, with a can or flask body, of a removable cover therefor constructed with a cast-metal portion, C^3, having a flange, C′, and united to a central sheet-metal portion, C^2, formed with a central screw-neck and a marginal flange, and a washer, E, secured between said flange of the central portion and the underside of the cast-metal portion of the cover, substantially as described.

6. The combination, with a sheet-metal can-body having an internal cast-metal ledge secured to its upper edge and provided with threaded sockets, of a cover provided with a discharge-aperture and a stopper therefor, and having a rigid portion, C^3, a packing interposed between the portion C^3 of the cover and the ledge, and fastening-screws rotatively connected with the said rigid portion of the cover, substantially as and for the purpose set forth.

7. The combination, with a sheet-metal can-body having an internal cast-metal ledge provided with a continuous rib, F, of a cover having a rigid portion, C^3, opposed to the said ledge when the cover is upon the body, and an elastic washer interposed between the rigid portion of the cover and the ledge, the said rigid portion of the cover being provided with a continuous groove opposite the rib F, into which a portion of the washer may be forced by the rib, and means for clamping the cover upon the can-body, substantially as described.

In testimony that I claim the foregoing as my invention I affix my signature in presence of two witnesses.

ABRAHAM ABRAHAMSON.

Witnesses:

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