

(No Model.)

A. H. WALKER.

OUTLET VALVE AND VALVE SEAT FOR OIL CANS.

No. 509,411.

Patented Nov. 28, 1893.

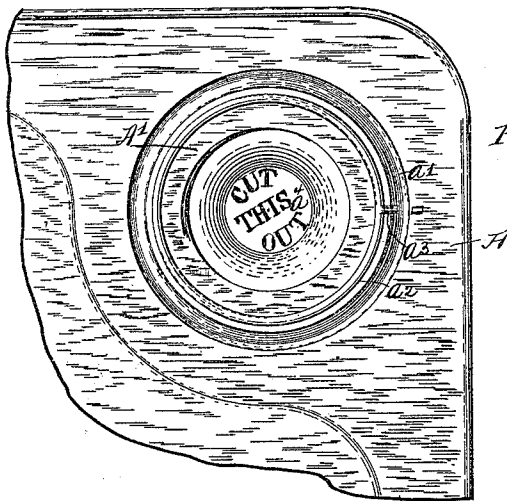


Fig. 1.

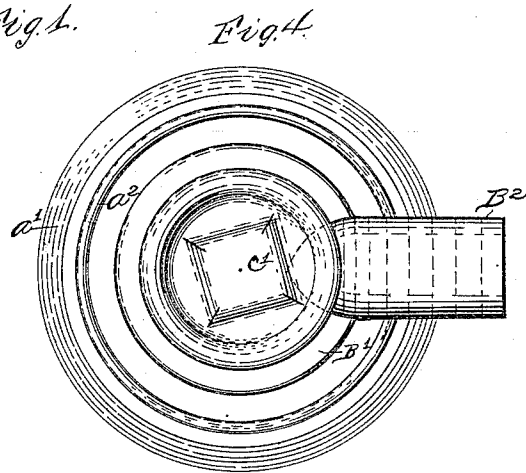


Fig. 4.

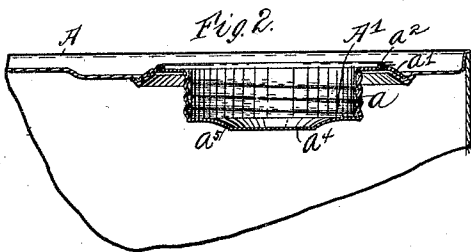


Fig. 2.

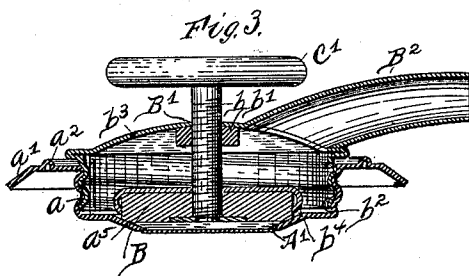


Fig. 3.

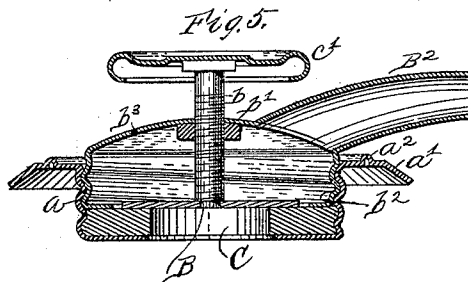


Fig. 5.

WITNESSES:

Chas. Ferguson
Wm. M. Jeff.

INVENTOR

Albert H. Walker

BY *Edwin H. Brown*

HIS ATTORNEY

UNITED STATES PATENT OFFICE.

ALBERT H. WALKER, OF BROOKLYN, NEW YORK.

OUTLET-VALVE AND VALVE-SEAT FOR OIL-CANS.

SPECIFICATION forming part of Letters Patent No. 509,411, dated November 28, 1893.

Application filed January 5, 1893. Serial No. 457,323. (No model.)

To all whom it may concern:

Be it known that I, ALBERT H. WALKER, of Brooklyn, county of Kings, and State of New York, have invented a certain new and useful Improvement in Outlet-Valves and Valve-Seats for Oil-Cans, of which the following is a specification.

This invention relates to outlet valves and valve seats for cans containing illuminating oil, or the like, the object being to provide a simple valve and faucet which may be easily attached to or detached from a can and which will occupy the minimum of space above the can top as well as afford surety against leakage in transportation.

I will describe a practical embodiment of my improvement, and then point out the novel features in the claim.

In the accompanying drawings, Figure 1 is a top view of a corner portion of a can, with a valve seat and socket secured thereto and embodying my improvement. Fig. 2 is a transverse vertical section thereof. Fig. 3 is a section of the same parts enlarged with the valve cover and spout in position. Fig. 4 is a top or plan view thereof. Fig. 5 is a section showing a modification.

Referring by letter to the drawings A designates a portion of the top of a can, and A' is the socket secured thereto and carrying the valve seat and seal A⁴. This socket is made of sheet metal and when secured in place extends toward the interior of the can so that the valve seat is located some distance below the plane of the top A and the seal immediately below the seat. A screw threaded portion *a* extends upward from the valve seat and the upper end of the portion *a* has an outwardly extending annular flange *a'*, the edge of which is designed to be soldered to the top A. To prevent the solder from running into the valve seat during the process of soldering I may provide a dam on the upper surface of the flange *a'*. This dam consists of an upwardly extending annular bead *a²* on the flange *a'*. Ordinary care, however, in applying the solder will render such a dam unnecessary and I propose generally to omit it. The flange *a'* may have a small radial rib or stud *a³* which in conjunction with a similar mark on the top A as seen in Fig. 1

will indicate the proper position in which the valve seat is to be set so that its threaded portion will properly receive the threaded portion to which the outlet spout and cap are attached and so as to direct the spout outward when the parts are screwed up. The seal consists of a plug *a⁴* removably secured to the opening through the valve seat. It is preferably in the form of a disk of metal soldered to the edge of the opening and may be readily punched out to provide communication with the interior of the can. The seal is left intact when the can is to be shipped, thus insuring absolute protection against leakage, even if the cover should be knocked off or broken.

B designates a valve having a screw threaded stem *b* extending upward through a cap or cover B'. An internally screw threaded nut *b'* is secured to the inner side of the cap or cover B' and the stem *b* is engaged with this nut. The upper end of the stem is provided with a hand piece *c'*. The cap or cover B' has a downwardly extended screw threaded flange *b²* to engage the threaded portion *a* of the socket. In Fig. 3 I have shown the cover B' as having its edge projected over the flange *a'* of the socket, but this is not essential and is omitted in Fig. 5. A spout B² extends outward from the cap or cover B', and the cover has a vent *b³*.

In Fig. 3 the valve B is shown as a disk of cork or similar yielding material secured to the stem *b* by means of a metal shell *b⁴* and in this example the valve seat proper is formed by a wall *a⁵* inclined inward and downward. The edge of the valve B will bear closely on this inclined seat and form a tight joint.

In Fig. 5 the valve is shown as a disk of metal secured to the valve stem, and the valve seat in this example consists of a ring C of cork or similar yielding material. In this example the flange *b²* of the cover has an inwardly turned annular flange *c* adapted to bear upon the valve seat.

My invention is designed more particularly to be used on what is known as wire handle cans which are packed for exportation in what is known as a low case. In any style of can, by sinking the valve seat and seal below the top of the can, a case for packing

the cans can be made much lower than is possible with any style of can in which the valve seat extends above the top of the can. This difference in space makes a considerable difference in transportation rates and the practical value of my invention is thereby materially enhanced.

Having described my invention, what I claim is—

- 10 An oil can comprising a body portion, a sheet metal screw threaded socket extending down into the same so as to be below the plane of the can top and provided with a valve seat, having a sealed portion of thin
15 metal secured to the opposite side and below the valve seat, a screw threaded cap or plug engaging with the interior of the same, wholly above the valve seat and having a

transversely extending spout arranged upon its top portion, a valve co-acting with said 20 valve seat, and a screw fitted to said cap or plug and attached to the valve, substantially as specified, whereby a plug or cap provided with a spout and a valve actuating device, of but slight projection above the top of a can, 25 is afforded and the valve is made to protect not only the valveseat, but also the joint between the cap or plug and the socket.

In testimony whereof I have signed my name to this specification in the presence of 30 two subscribing witnesses.

ALBERT H. WALKER.

Witnesses:

CLARENCE R. FERGUSON,
WILLIAM A. POLLOCK.