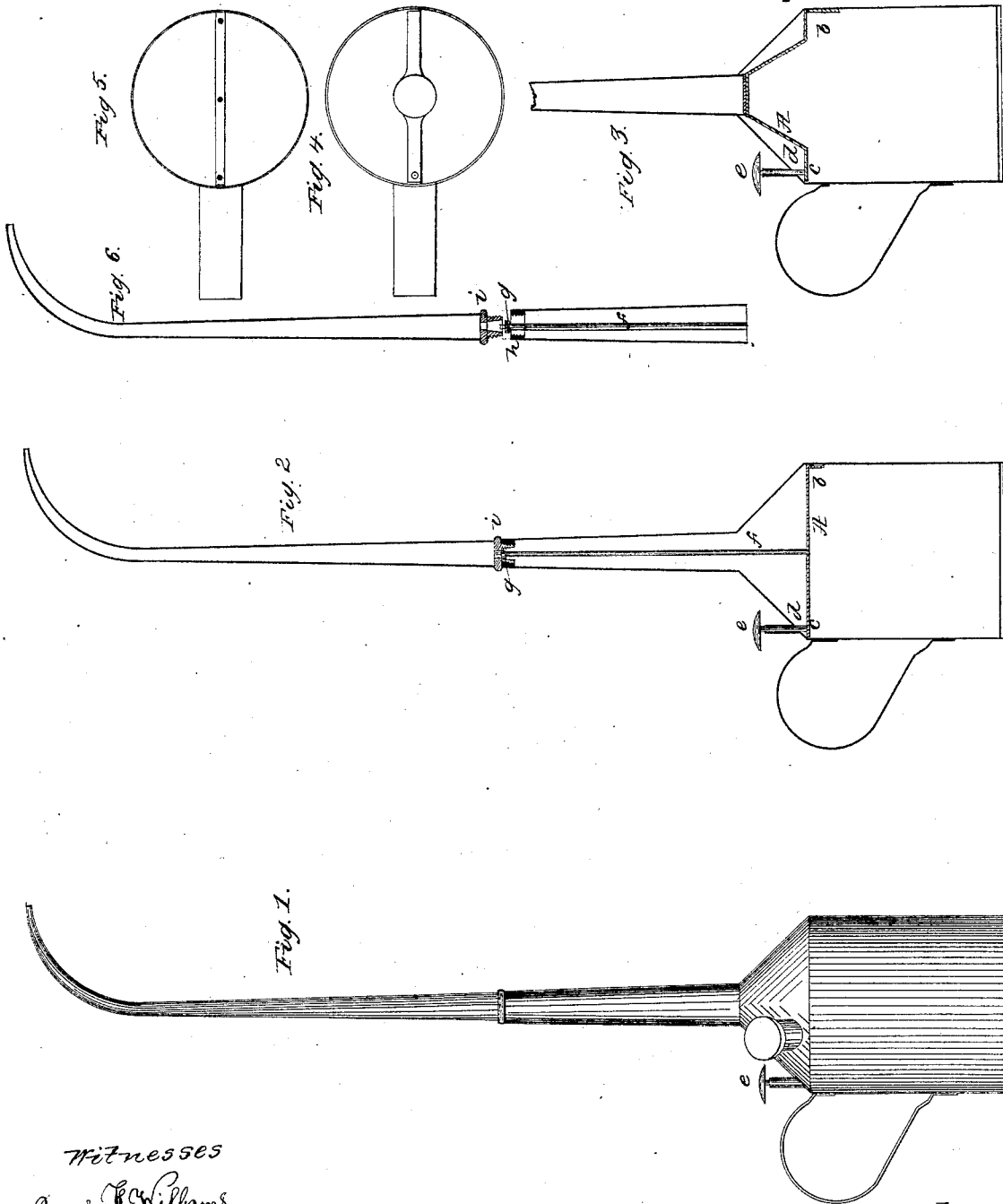


W. C. Arthur,

Oil Can.

N^o 27,876.

Patented Apr. 10, 1860.



Witnesses
James H. Williams
Stephen Chakrapar

Inventor
W. C. Arthur

UNITED STATES PATENT OFFICE.

W. C. ARTHUR, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN OIL-CANS.

Specification forming part of Letters Patent No. 27,876, dated April 10, 1860.

To all whom it may concern:

Be it known that I, WILLIAM C. ARTHUR, of the city and county of Baltimore, and State of Maryland, have invented a new and useful Improvement in the Construction of Cans for Oiling Machinery and for other Purposes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, which make part of this specification.

Figure 1 is a perspective view, and Figs. 2 and 3 are vertical sections, of a can with my improvement. A, Figs. 2 and 3, is a simple spring, which may be either flat, half-round, constructed of a simple piece of wire, or made in any desirable form. One end of this spring is riveted, soldered, or secured in any other suitable manner to the side of the can *b*. The opposite end, *c*, is left free.

Figs. 4 and 5 represent a horizontal section of the can directly above the spring. To the free end of the spring is attached a rod, *d*, which passes through an opening in the top of the can, and terminates in a button, *e*. To that portion of the spring directly under the opening of the spout a rod, *f*, is fixed. This rod is long enough to pass to any desired distance into the spout, and near the upper end a disk of leather or other suitable material is attached to a piece of metal secured to the rod, as shown at *g*, Figs. 2 and 6. The spout is made in two parts, the lower portion somewhat shorter than the rod above described, as shown at *h*, Fig. 6. In the upper part of the spout a valve-seat, *i*, is fixed. This valve-seat is placed in such position that when the two parts of the spout are brought into their proper places the leathered portion of the rod above described comes into close contact with it. The two sections of the spout are united either by means of a screw previously formed upon them by being soldered together or joined securely in any other suitable manner.

The can may be made in any of the usual forms.

The different parts being in proper position, the operation of the device is obvious. The extremity of the rod *f*, projecting above the piece of leather *g*, passes loosely into the open-

ing of the valve-seat, serving as a guide, and the valve is closed by the action of the spring. The can may now be inverted and no part of its contents escape; but the valve may be opened to any desirable extent by pressure upon the button *e*, and the contained liquid allowed to flow out rapidly or slowly, as is desired. When the pressure is removed, the spring again closes the valve.

The arrangement above described—*i. e.*, the exact form of valve and its position in the pipe—is not essential, but is one which will accomplish the object in view in a very perfect manner.

Instead of employing the valve in the pipe, the same object may be accomplished by extending the lower end of the spout until it comes into close contact with the spring, the spring at the point of contact being furnished with a disk of leather or other suitable substance somewhat larger than the opening of the pipe which it closes by contact with it. This arrangement is exhibited by the sectional Figs. 3 and 4.

The advantages of a can made after the plan proposed are plain. The waste of oil, when it is necessary to invert the can in order to reach parts of machinery not easily accessible, is effectually avoided, as the oil will not flow until the valve is opened, and this valve is completely under the control of the hand in which it is held. The device is so simple that its addition in making a common can will cost but a trifle. It is not liable to get out of order, and can easily be repaired in case this should happen.

Having thus described my improvement, I disclaim the employment of a helical spring in any manner applied for the purpose of closing and opening a valve or valves in a can of any description; but

What I claim as my invention is—

The combination of the spring A with the valve in the spout, arranged as above described.

WM. C. ARTHUR.

Witnesses:

JAMES F. WILLIAMS,
STEPHEN SHAKESPEAR.