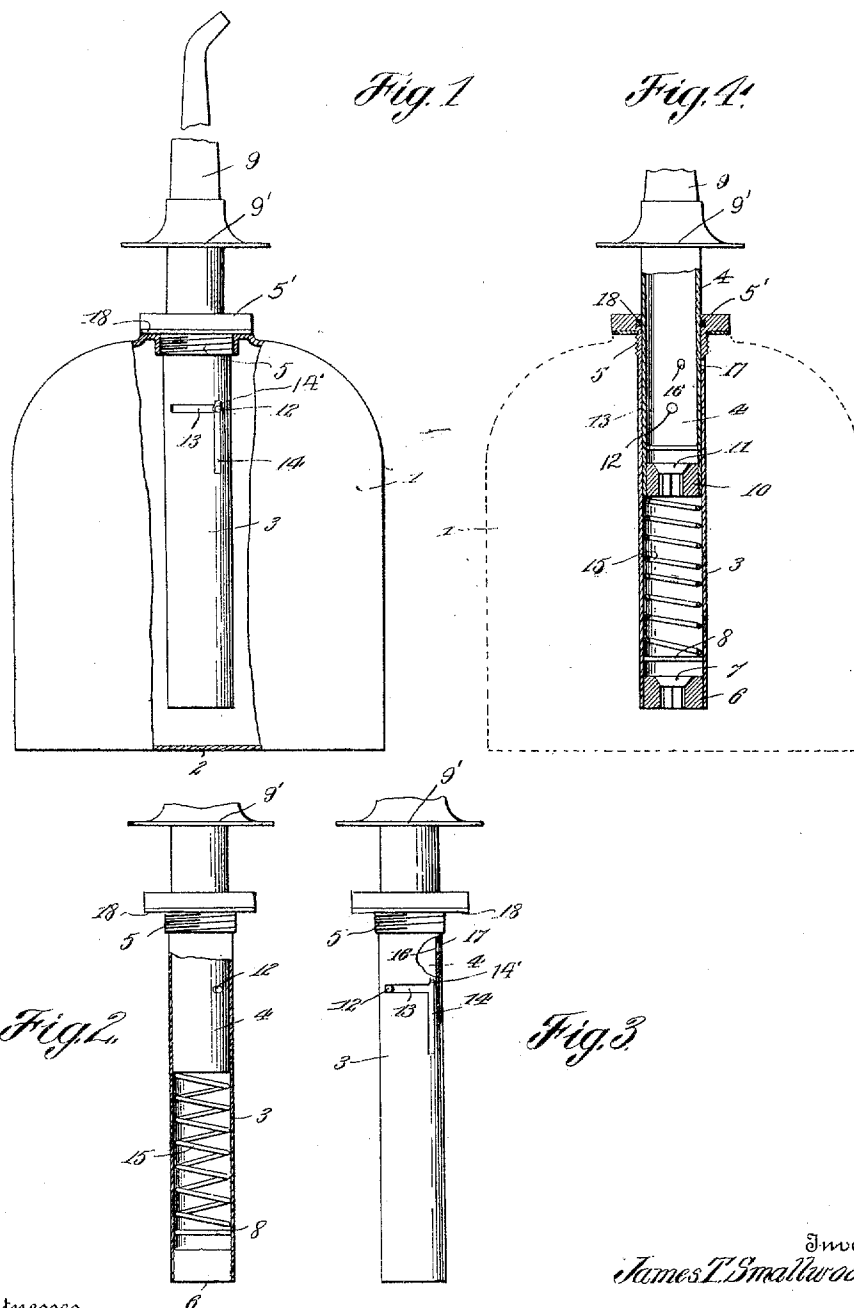


989,435.

Patented Apr. 11, 1911.



Witnesses

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UNITED STATES PATENT OFFICE.

JAMES T. SMALLWOOD, OF SEDALIA, MISSOURI.

OIL-CAN.

989,435.

Specification of Letters Patent.

Patented Apr. 11, 1911.

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To all whom it may concern:

Be it known that I, JAMES T. SMALLWOOD, a citizen of the United States, residing at Sedalia, in the county of Pettis and State of Missouri, have invented new and useful Improvements in Oil-Cans, of which the following is a specification.

This invention relates to oil cans and particularly to attachments for the body of the ordinary oil can.

The object of the invention is the provision of a pumping attachment which may be inserted into the ordinary oil can when the latter becomes inoperative by reason of frequent dents caused by mishandling or from any other reason.

A still further object of the invention is the provision of a device of this character which may be applied to the ordinary oil can and rendered inoperative so that the oil will flow out of the same by pumping the diaphragm in the ordinary manner.

A still further object of the invention is the provision of a pumping attachment for oil can which enables the user thereof to oil parts of machinery which are situated overhead and in such positions as to prevent the inverting of the can.

Still further objects of the invention will appear as the following specific description is read in connection with the accompanying drawings which form a part of this specification, and in which:

Figure 1 is an elevation, with parts in section and other parts broken away. Fig. 2 is a similar view of the attachment removed from the can. Fig. 3 is a similar view showing the attachment in locked position, and Fig. 4 is a longitudinal sectional view through the attachment, the can being shown in dotted lines.

Referring more especially to the drawings, 1 represents the can which is provided with the usual diaphragm bottom 2 and the threaded aperture in its upper end to receive the spout. The attachment comprises outer and inner cylinders 3 and 4, the former of which comprises a pump cylinder and is provided on its upper exterior portion with a thread 5 adapted to enter the aperture in the can and is also provided with a milled disk 5' by which the device may be threaded into the can. The lower end of the outside cylinder 3 is closed by an apertured disk 6 which forms a valve seat for the check valve 7. This check valve is limited in its up-

ward movement or away from its seat by a rod 8 which passes diametrically across the cylinder a short distance above the aperture and is secured in the walls of the cylinder.

The inner cylinder has its upper end threaded to receive the spout 9 which has a collar 9' upon its lower end forming a finger hold by which the device may be manipulated, the hold being engaged on either side by the fore and middle fingers. The lower end of the inner cylinder is closed by an apertured disk 10 in which is seated a valve 11 which moves in the same direction as the valve 7 and is adapted to hold the oil within the inner cylinder after being forced therein by the downward action of said cylinder.

Passing across the inner cylinder 4 and projecting through one side thereof is a retaining pin 12 which operates in the slots 13 and 14, the slot 14 extending longitudinally of the cylinder and the slot 13 extending at right angles from the head of the slot 14. The slot 14 is extended slightly beyond its juncture with the slot 13 so as to form a recess 14' in which the pin is seated to prevent accidental displacement. A spring 15 arranged between the cylinders is adapted to normally keep the pin in the recess 14' and the inner cylinder in extended position the pin 12 and end walls of the slot 14 serve to limit the movement of the inner cylinder or plunger.

Suitable apertures 16 and 17 are formed in the inner and outer cylinders which when the device is in normal position are out of register, but which are adapted to register when the pin is in the lateral slot 13. In this position the cylinder cannot work as a pump and the oil can is used in the ordinary manner by pressure upon the diaphragm bottom 2, the oil passing into the spout through the apertures 16 and 17, uninterrupted by the valves.

In order to form a tight joint between the inner and outer cylinders, I secure in the milled disk 5' a suitable gasket 18 in any suitable manner.

Having thus described the invention, what is claimed is—

1. The combination with an oil can, of a pump cylinder secured therein, a hollow plunger mounted to reciprocate in the cylinder, means for normally keeping the plunger projected, means for locking the plunger in inoperative position, and a spout carried by the plunger.

2. In a device of the class described, the combination with an oil can, of a pump cylinder secured therein, a check valve in the pump cylinder, a plunger mounted in the pump cylinder, a check valve in the plunger, means to normally keep the plunger projected, a spout carried by the plunger, means carried by the spout whereby the plunger may be reciprocated in the cylinder and means for locking the plunger in inoperative position.

3. In a device of the class described, the combination with an oil can, of a valved pump cylinder threaded therein, a valved hollow plunger reciprocating in said cylinder, means to limit the movement of said plunger, said cylinder and plunger having apertures which are out of register when the plunger is in operative position, and means to bring the apertures into register and to render said plunger inoperative.

4. In a device of the class described, the combination with an oil can, of a valved pump cylinder mounted therein, said cylinder having a longitudinal slot and a lateral slot communicating therewith, a hollow pump plunger mounted to reciprocate in the cylinder, a pin adapted to extend outwardly from the plunger to enter the slots and limit the movement of the plunger, said cylinder and plunger having apertures therein which are adapted to register when the pin is in the lateral slot and to be out of register when it is in the longitudinal slot, a spout carried by the plunger, and means carried by the spout for operating the plunger.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES T. SMALLWOOD.

Witnesses:

J. B. ARNOLD,

E. A. WOMOCK.

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