(No Model.)

W. D. CARTER.

CAN FOR IVORY BLACK, &c.

No. 252,076. Patented Jan. 10, 1882.

Fig: 3.

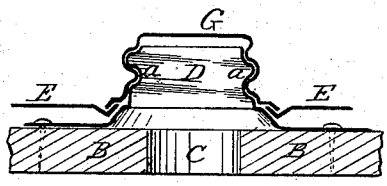


Fig: 1.

Fig: 2

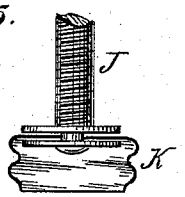
Fig: 4.

Witnesses:

Chas. Nida.

H. L. Mattenberg

Fig: 5.



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CAN FOR IVORY-BLACK, &c.

SPECIFICATION forming part of Letters Patent No. 252,076, dated January 10, 1882.

Application filed May 9, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM D. CARTER, of the city of Brooklyn, county of Kings, and State of New York, have invented a new and Improved Can for Ivory-Black, &c.; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making part of this specification.

This invention is in the nature of an improvement in cans for ivory-black and other thick, pasty, or semi-fluid substances, or for paints and colors; and the invention consists in a can for ivory-black and other substances, constructed with an outlet faucet or gate and an interior and vertically-adjustable diaphragm or plunger, through the center of which diaphragm is fixed a filling-nozzle provided with screw-threads, which nozzle, when the can is filled, projects through the center of the head of the can.

In the accompanying sheet of drawings, Figure 1 represents a side view, partly in section, of my can with press applied thereto; Fig. 2, a vertical section of can with press removed; Fig. 3, an enlarged detail section of plunger when in its highest position; Fig. 4, an enlarged detail section of gate or faucet, and Fig. 5 an enlarged section of lower end of screw-shaft and cap thereon.

Similar letters of reference indicate like parts in the several figures.

This invention applies more particularly to cans designed to hold ivory-black or other thick semi-fluid substances or colors; but it is applicable for use with other substances. In cans for holding ivory-black, for instance, which is too thick to flow freely from an outlet, it is common to remove the head from the can, and by so doing expose it to the action of the air, which will soon harden and render it unfit for use. To construct a can that will admit of a ready delivery of its contents in quantities to suit the user, and without exposing the substance within the can to the air, I construct my can A of any desirable size or form, but preferably in the form of a cylinder, and within this can is fitted a diaphragm or plunger, B, turned so as to accurately fit within the can, and yet move freely up and down therein. Through the center of this diaphragm B is formed an opening, C, and surrounding this opening, and secured to the diaphragm in any desirable manner, is an inlet-nozzle, D, with a screw-thread, *a*, formed around its outer surface, this nozzle being of sufficient length to project through an opening, *b*, made in the center of the cover E when the diaphragm is in its upper or highest position under said cover. In the side of the can A, and near its bottom, is fixed a faucet or gate, F, of any desirable kind.

Now, my can, constructed substantially as above described, is operated in this wise: The substance with which the can is to be filled is introduced into the can through the nozzle D, the diaphragm then being in its highest position under the cover of the can. When the can is filled a screw-cap, G, is screwed onto the nozzle D, rendering the can substantially air-tight. Now, to remove the contents of the can a press, H, provided with a clamp, I, whereby it may be fixed to a table or counter, and with a screw-shaft, J, with a suitable handle, J′, at one end and a loosely-fitting screw-cap, K, at the other, is employed. This press being secured to the table or counter by means of the clamp before described, the screw-cap G is removed from the nozzle D and the loosely-fitting screw-cap K screwed onto the nozzle D. The gate or faucet F is next opened, and the screw-shaft J, by means of the handle J′, is turned, and as the screw descends in this way the diaphragm or plunger B is pressed down within the can A, and as it descends it forces the contents of the can below it out through the gate or faucet F to any extent required, and this operation is continued from time to time, as the contents of the can is wanted, until the can is emptied.

By the operation hereinbefore described the contents of the can may be removed, as has been seen, with facility and without exposing the remaining contents to the air, and the can may be refilled and used an indefinite time.

Having thus described my invention, what

I claim as new, and desire to secure by Letters Patent, is—

1. A can for ivory-black and other substances, provided with an internal and vertically-adjustable diaphragm, with an aperture through its center surrounded by a projecting nozzle, with screw-threads on its exterior, through which the can may be filled, and by which the diaphragm may be vertically adjusted by means of a screw-press, substantially as and for the purpose described.

2. In a can for containing ivory-black, &c., an interior and vertically-adjustable diaphragm provided with a threaded nozzle projecting through the head of the can, in combination with a screw-cap, G, substantially as and for the purpose described.

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Witnesses:
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