H. H. HULL.

CANS FOR PACKING AND SHIPPING PAINTS.

No. 193,408. Patented July 24, 1877.

Fig. 1.

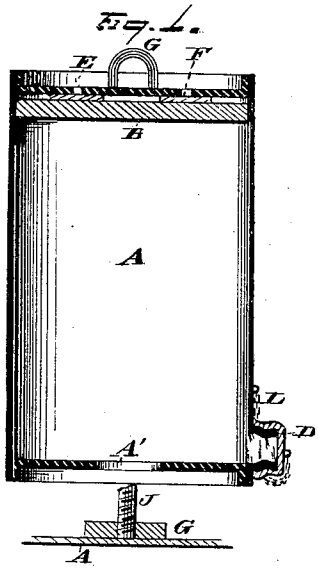


Fig. 2.

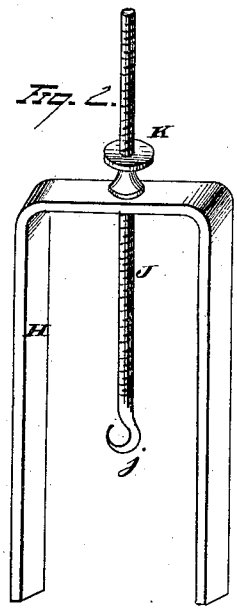
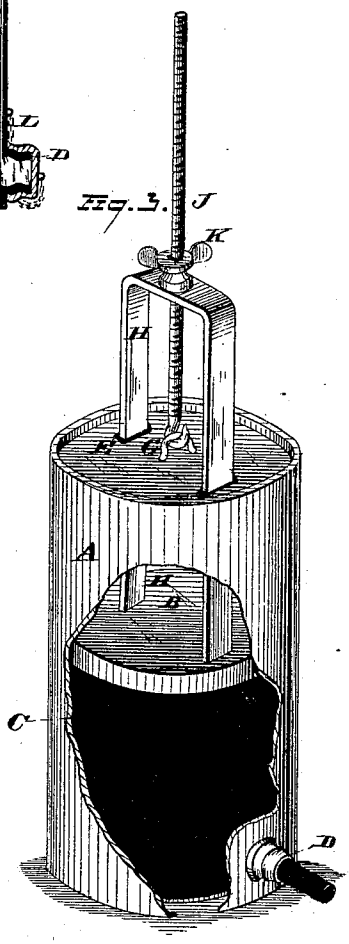


Fig. 3.



WITNESSES

Ed. F. Nottingham

A. M. Bright

INVENTOR

H. H. Hull.

By Leggett and Leggett,

ATTORNEYS

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON D. C.

UNITED STATES PATENT OFFICE.

HERBERT H. HULL, OF CLEVELAND, OHIO.

IMPROVEMENT IN CANS FOR PACKING AND SHIPPING PAINTS.

Specification forming part of Letters Patent No. **193,408**, dated July 24, 1877; application filed June 19, 1877.

To all whom it may concern:

Be it known that I, HERBERT H. HULL, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Cans for Packing and Shipping Paints, Colors, &c.; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in cans for packing and shipping paints, colors, &c.; and consists in the combination of devices and appliances as hereinafter set forth and claimed.

In the drawing, Figure 1 is a longitudinal central section of a can embodying my invention. Fig. 2 is a separate view of the attachment for emptying the can. Fig. 3 is a perspective view exhibiting my can and emptying attachment in use.

A is a can of any suitable construction. It is, before being filled, preferably provided with an opening, A′, in the bottom, through which the can may be filled with paint, though it is not essential that this opening shall be in the bottom, or that there shall be any opening whatever for filling the can, as the can may be filled before the top or bottom is attached to it. B is a piston-head, of wood, metal, or any other suitable material. C is paint, colors, &c. D is an opening, screw-capped or otherwise, from which the paint, &c., may be discharged or emptied as required for use. E are holes made through the top of the can, and may be two or more in number, dependent on the number of prongs or legs in the emptying attachment. F are pieces of paper or bladder, or sheet-lead, or any other suitable material for covering the holes until it is desired to use the device, and may be in or outside of the can. G is a loop, nut, or other suitable similar contrivance, through the resistance of which the emptying attachment operates. H is a frame, formed preferably, as shown in the drawing, of simply one piece, arched at the top, so as to have two legs or uprights corresponding with holes E in the top of the can, though there may be more than two such legs in the frame. J is a screw-shaft, provided with a hook, *j*, or other suitable device at its lower end, whereby it may be attached to the loop or nut G. The shaft J passes loosely through the upper portion of the frame H, and is provided with a milled nut, K, or any other suitable nut which can be readily turned with the fingers.

The operation of the device is briefly as follows: Presuming the can to be filled through the opening A′ at its base, there is placed upon the outside or inside of the can the paper F, or other substance that is to stop up the holes E. The piston-head B is then placed within the can, down against the perforated head. The can is then filled with paint through the opening A′, and when filled the opening is soldered up or otherwise sealed.

When it is desired to use the paint, the person possessing one of the emptying devices hooks the shaft J into the loop G. He then slips the legs or prongs of the frame H through the openings E, the sheet or covering F giving away readily to pressure. He then removes the stopper or screw-cap, and, by turning the nut K with the thumb and finger, forces any desired amount of paint from the discharge-orifice, which is effected by the forcing downward of the piston-head by the frame H.

It is obvious that the same attachment can be used for any number of cans, and can be readily removed from one can to another, as desired.

I am aware that it is not new to employ a piston-head upon the inside of a can, which head is forced down by means of an external shaft passing through the center of the top of the can; but the device here shown is a very ready and economical arrangement, and the attachment is small and portable. Moreover, the bearing of the legs or prongs of the frame upon two or more points of the piston-head prevents all liability of the piston-head to turn as it is forced down.

Another great advantage is the readiness with which the emptying attachment may be packed with or between the cans, occupying very little space.

L is a chain that attaches the screw-cap to the body of the can.

What I claim is—

1. A can whose head is formed with the engaging loop and openings, in combination with the paint emptying attachment, made independent thereof, substantially as described.

2. In a paint-package, the head provided with a central loop and openings extending through the cover on each side of said loop, in combination with a piston, a movable frame extending through the head, a screw-shaft, and tightening-nut, substantially as described.

3. The combination, in a paint-can, of a discharge-orifice, D, loop G, perforations E, temporary sealing F, and piston-head B, substantially as and for the purposes described.

4. The combination, with a paint-package provided with a piston, of an independent frame, constructed to be inserted through the head of the package, a screw-shaft adapted to be removably secured to the head, and a tightening-rod, substantially as described.

5. As an article of manufacture, a device made independent of a paint-can, and adapted to detachably engage therewith in the process of emptying it of its contents, the same consisting of the arch or bow shaped frame, the longitudinal screw-shaft, and the nut or other analogous mechanism for operating the said shaft, substantially as described.

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

HERBERT H. HULL.

Witnesses:

FRANCIS TOUMEY,

W. E. DONNELLY.