(No Model.)

J. W. & A. KENT.

PAINT PRESS.

No. 367,816. Patented Aug. 9, 1887.

Fig. 1.

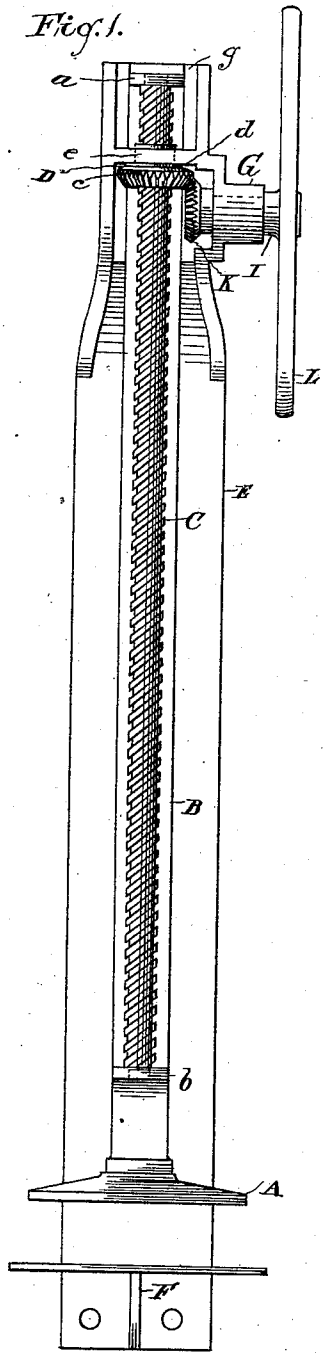
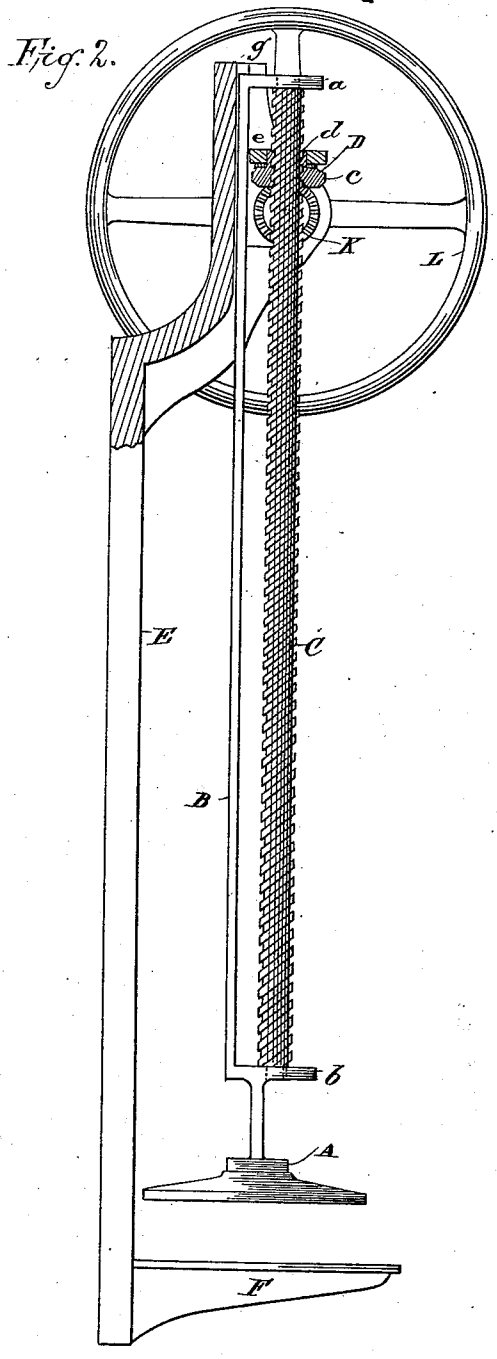


Fig. 2.



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JAMES W. KENT AND ARCHIBALD KENT, OF BROOKLYN, NEW YORK.

PAINT-PRESS.

SPECIFICATION forming part of Letters Patent No. 367,816, dated August 9, 1887.

Application filed December 11, 1886. Serial No. 221,257. (No model.)

To all whom it may concern:

Be it known that we, JAMES W. KENT and ARCHIBALD KENT, both of Brooklyn, in the county of Kings and State of New York, have invented certain Improvements in Paint-Presses, of which the following is a specification.

This invention relates to that class of apparatuses which are used for expelling paint from paint-cans in any desired quantities or proportions through an orifice at or near the bottom or lower end of the cans; and its object is to provide an apparatus of the class specified which will be strong, simple in construction, capable of rapid and convenient operation, and in which the piston or plunger will remain elevated to any requisite height when the apparatus is not in active use or operation.

The invention comprises certain novel combinations of parts whereby said objects are effectually secured.

Figure 1 is a front view, and Fig. 2 is a side view and partial vertical transverse sectional view, illustrating our said invention.

A is the plunger or piston, which, in the operation of the apparatus, is designed to pass into the open top or upper end of the can in the usual manner, and B is the piston-rod, to the lower end of which is attached the said piston or plunger A. The said piston-rod B is provided with shoulders or offsets *a b*, one at or near its top and the other at or near its lower end, and to and between these offsets *a b* is secured the worm or screw C, which is fast or fixed in its relation with the rod B. The worm or screw C passes through a nut, *c*, formed at the center of a beveled wheel, D, the hub *d* of which works in a suitable bearing in a fixed seat, *e*, which latter forms part of the frame E of the apparatus.

At the upper part of the frame E is a guide, *g*, in which works the upper part of the piston-rod B, the latter being preferably flat in form and rectangular in cross-section. To the lower part of the frame E is affixed the shelf F, to receive the can the contents of which are to be operated upon, and to hold the said can in due relation with the piston or plunger A.

The frame E is provided with a suitable bearing, G, for the shaft I of a beveled pinion, K, which gears into the beveled wheel D. The shaft I is provided with a hand-wheel, L, or, in lieu thereof, with a crank or other suitable device for actuating the said shaft I.

In the operation of the apparatus the shaft I is turned by means as aforesaid to rotate the beveled pinion K and beveled wheel D, thereby causing the nut *c* to act upon the worm or screw C to give a longitudinal movement thereto. By turning the shaft I in one direction the worm or screw C, and consequently the piston-rod B and piston or plunger A, are brought away from the shelf F to an extent sufficient to permit the can to be placed upon the latter, which done the movement of the shaft I is reversed, and the piston A, being moved inward, passes within the can and presses upon the contents thereof to eject said contents through a suitable outlet at or near the bottom of the can.

It is obvious that although the apparatus can be conveniently used in the position represented in the drawings its structure and operation are substantially the same if placed horizontally for operation, or even if inclined or inverted.

What we claim as our invention is—

1. In a paint-press, the combination of the following elements, to wit: a piston, A, piston-rod B, worm or screw C, a frame, E, constructed with a seat, *e*, and guide *g*, a beveled wheel, D, constructed with an external nut, *c*, a shaft, I, and beveled pinion K, all substantially as and for the purpose herein set forth.

2. In a paint-press, the combination of the following elements, to wit: a piston, A, a piston-rod, B, constructed with shoulders or offsets *a b*, worm or screw C, secured between the said shoulders or offsets, a frame, E, constructed with a seat, *e*, and guide *g*, a beveled wheel, D, provided with hub *d*, shaft I, and beveled pinion K, all substantially as and for the purpose herein set forth.

3. In a paint-press, the combination of the following elements, to wit: a piston, A, piston-rod B, worm or screw C, a frame, E, constructed with a seat, *e*, guide *g*, and shelf F, a beveled wheel, D, constructed with an external nut, *c*, a shaft, I, and beveled pinion K,

all substantially as and for the purpose herein set forth.

4. In a paint-press, the combination of the following elements, to wit: a piston, A, piston-rod B, constructed with shoulders or offsets *a b*, worm or screw C, secured between the said shoulders or offsets, a frame, E, constructed with a seat, *e*, guide *g*, and shelf F, a beveled wheel, D, provided with hub *d*, shaft I, and beveled pinion K, all substantially as and for the purpose herein set forth.

JAMES W. KENT.
ARCHIBALD KENT.

Witnesses:
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