H. H. Sims,

Tobacco Press,

No. 111,800. Patented Feb. 14, 1871.

Fig. 3

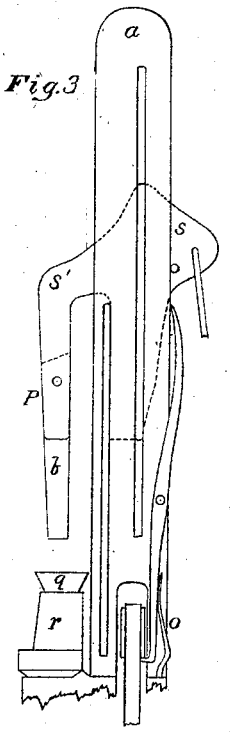


Fig. 1,

Fig. 2,

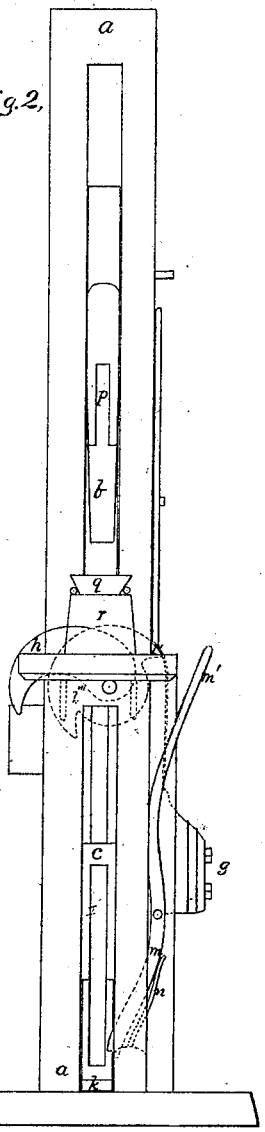
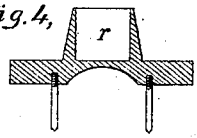


Fig. 4,



Witnesses
E. W. Anderson,
Thos. Harper.

Herman H. Sims.
Inventor.

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HERMAN H. ALMS, OF KANSAS CITY, MISSOURI.

Letters Patent No. 111,800 dated February 14, 1871; antedated February 3, 1871.

IMPROVEMENT IN TOBACCO-PRESSES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, HERMAN H. ALMS, of Kansas city, in the State of Missouri, have invented a new and valuable Improvement in Tobacco-Presses for filling bags or packages of smoking-tobacco; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures marked thereon.

Figure 1 is a side view of my press, showing the machinery by which it is worked.

Figure 2 is a front view.

Figures 3 and 4 are details.

The object of my invention is to provide a ready means for filling packages of smoking-tobacco of the various sizes required by the revenue regulations in so compact a manner as to be conveniently and cheaply transported.

It consists in the combination of parts, and is operated as hereinafter described.

The parts of this press consist of a stout frame, *a*, fig. 1, constructed of wood or iron, or other suitable material.

The rammer *b*, fig. 1, is affixed to a head, *s s'*, with slides working in grooves in the frame, and is connected to the cam *c*, fig. 1, by which it is operated, by a jointed rod, *d d'*.

The amount of pressure to be applied can be regulated by means of the holes *t t' t''* in the cam, through which the jointed rod is passed.

The weight *e*, fig. 1, which can be increased to any amount desired by hooking or bolting on additional pieces of metal, is attached to this cam by a belt or chain passing from its upper point *c* over the roller *f*.

Another belt or chain is also attached to the same point of this cam *c*, whereby the pulleys *i i' i''* are turned, drawing up by the one motion the belt or chain holding the weight *g*, fig. 2, and operating the cam *h*, fig. 2.

This cam lifts the slide to which the funnel-bracket is attached, which slide, like the rammer-head, works in grooves in the frame.

The treadle *k*, fig. 1, is attached to the cam by a strap or chain, as shown at *l*, fig. 1. When this treadle is pressed down, the notched lower end of the lever *m*, fig. 2, by means of the spring *n*, catches and holds it down, thus setting the press for use.

A check-lever and spring, *o*, fig. 3, holds the cam *h* until the rammer has descended.

A pin attached to the rammer-head throws off this check-lever at the proper moment to withdraw the funnel.

The rammer is attached to the head by a tenon-joint and pin, *p*, and can be removed like the mold, when a different sized package is required.

The press is operated by pressing the foot upon the treadle *k* to set it for use. The bag to be filled is then drawn over the funnel *q*, and placed in the mold *r*, and the required quantity of tobacco poured in. By now pressing upon the lever *m'*, the weight *e*, by means of the cam *c* and jointed rod *d*, forces down the rammer *b* and compresses the tobacco, the weight *g* and cam *h* drawing out the funnel immediately. The press being again set by pressing down the treadle, the rammer is removed, and the bag, after being folded over or fastened, taken from the mold.

The machine can be operated by a boy or girl, requiring but little manual strength. It saves the tedious labor now required in the hand-process of filling tobacco-bags, and secures much more compact and neat packages of uniform size. Molds of different sizes are required, according to the size of package to be filled.

What I claim as of my invention, and desire to secure by Letters Patent, is—

1. The cam *c*, constructed as described, with belt and weight *e*, in combination with and operated by the treadle *k*, substantially as and for the purposes set forth.

2. The arrangement of the treadle *k*, lever *m*, and spring *n*, in combination with and operating the two cams *c* and *h*, substantially as described and for the purposes set forth.

3. The arrangement of the cam *h* and pulleys *i i' i''*, in combination with the weight *g* and treadle *k*, substantially as described.

4. The movable rammer *b* and head *s*, in combination with the jointed rod *d* and cam *c*, constructed as described and for the purposes set forth.

5. The combination of check-lever and spring *o* with the cam *h*, pulleys *i i' i''*, weight *g*, and pin on the rammer-head, arranged substantially as described and for the purpose set forth.

6. The automatic sliding funnel-bracket, operated by means of the cam *h* and weight *g*, substantially as shown and set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

HERMAN H. ALMS.

Witnesses:
JOHN B. MOTLEY,
T. H. PARSONS.