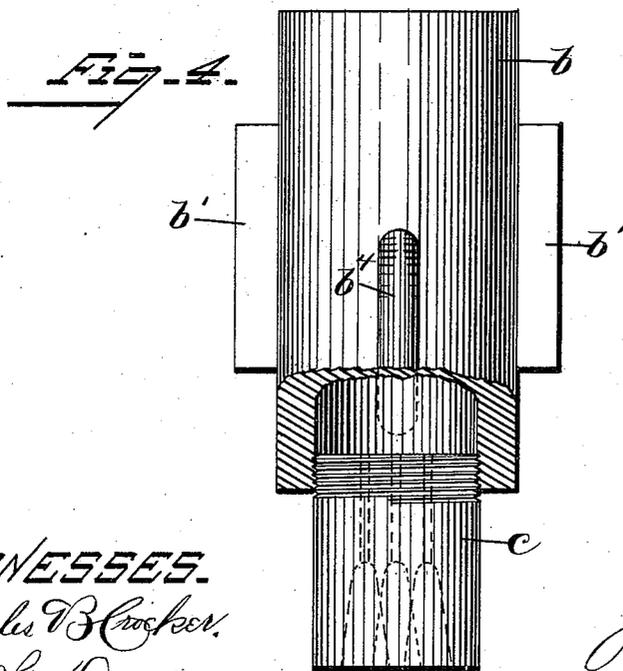
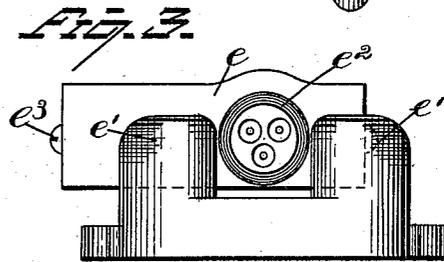
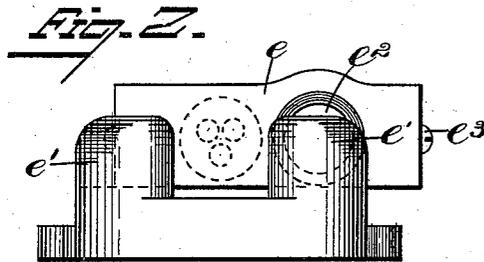
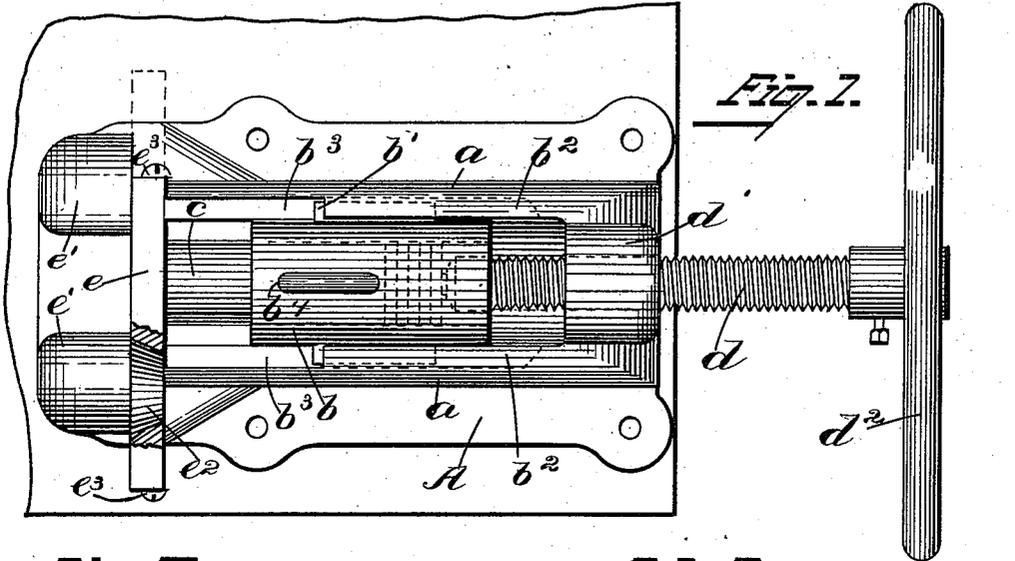


(No Model.)

J. G. BLOUNT.
SUPPOSITORY MACHINE.

No. 569,985.

Patented Oct. 20, 1896.



WITNESSES.
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UNITED STATES PATENT OFFICE.

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SUPPOSITORY-MACHINE.

SPECIFICATION forming part of Letters Patent No. 569,985, dated October 20, 1896.

Application filed July 23, 1895. Serial No. 556,957. (No model.)

To all whom it may concern:

Be it known that I, JOHN G. BLOUNT, of Everett, county of Middlesex, and State of Massachusetts, have invented an Improvement in Suppository-Machines, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention has for its object to improve the construction of suppository-machines; and it consists in certain details of construction to be hereinafter pointed out and claimed.

Figure 1 shows in plan view a suppository-machine embodying my invention; Fig. 2, a left-hand end view of the machine shown in Fig. 1, the bottom plate being in position for forming the suppositories; Fig. 3, a similar end view showing the bottom plate in position for the discharge of the suppositories; and Fig. 4, a front elevation and partial section of the cylinder removed for the purpose of filling, it also showing the mold.

The base A, of suitable shape to support the working parts, has central upwardly-extending portions *a*, arranged to receive between them the cylinder *b*. The cylinder *b* is formed with side lugs *b'* and is interiorly screw-threaded at one end to receive the mold *c*. The parts *a* of the frame which support the cylinder are formed with guideways *b²*, (see dotted lines, Fig. 1,) which receive the lugs *b'* on said cylinder, said lugs entering the guideways through the entrance-slots *b³*.

The cylinder *b* has a finger-piece *b⁴*, by means of which the cylinder may be removed from its supporting-frame whenever desired.

A plunger on the end of a screw *d* enters the cylinder *b* at that end opposite the mold *c*, said screw having its bearings in a projection *d'* on the frame and provided at its outer end with a hand-wheel or other means for turning it.

As the cylinder *b* rests loosely in its supporting-frame means must be provided for resisting the thrust of the plunger to prevent the cylinder from moving longitudinally in the frame, and as a simple and convenient way of carrying out this part of my invention I have provided a bottom plate *e*, which is placed in a suitable transverse guideway

formed in the framework next to the end of the mold *c* and bearing against projections *e'*, formed on said framework.

The bottom plate *e* is made as a slide adapted to move back and forth endwise in the transverse guideway provided for it, and it has an imperforate portion at one end and a perforate portion at the other end, that is to say, it has a hole *e²*, and when the suppositories are being molded the slide *e* is moved along into the position shown in Fig. 2, wherein the imperforate portion covers the mold, and when in such position it resists the thrust of the plunger.

When it is desired to discharge the suppositories, the slide *e* is moved along toward the left into the position shown in Fig. 3, in which position the hole *e²* is brought in front of the mold *c*. The hole *e²* is made less in diameter than the diameter of the mold *c*, so that the plate *e* may still resist the pressure or thrust of the plunger when the hole *e²* is before the mold.

I have provided the slide *e* at each end with a limiting-stop *e³* to limit the movement of the plate in both directions.

When it is desired to refill the cylinder *b*, the plate *e* is removed and the cylinder *b* drawn along the frame, its lugs *b'* following in the guideways *b²* until said lugs *b'* arrive at the entrance-slots *b³*, when the cylinder may be removed, the lugs *b'* passing out through said entrance-slots. It will be observed that the cylinder rests loosely in its supporting-frame and that the thrust of the plunger is solely resisted by the bottom plate.

I claim—

1. In a suppository-machine, the combination of a cylinder having a mold removably connected therewith at one end, and a plunger adapted to enter its opposite end, and means for advancing said plunger to force the material into the mold, a frame which supports said cylinder against lateral displacement but permits free longitudinal movement thereof, said frame having a transverse guideway at the end, and a sliding bottom plate in said guideway against which the mold abuts, and which solely resists the longitudinal thrust of the cylinder, substantially as described.

2. In a suppository-machine, the cylinder *b* having a mold *c* at one end and having laterally-projecting lugs *b'* at opposite sides thereof, combined with the open-sided frame *A* adapted to receive said cylinder, having guideways *b*² which receive said lugs *b'*, and having entrances *b*³ to said guideways for the passage of said lugs, and the bottom plate *e* supported by the frame *A* at the end of the mold *c* and abutments formed on the frame *A* against which said bottom plate is forced as it resists the longitudinal thrust of the cylinder, substantially as described.

3. In a suppository-machine, a cylinder having a mold at the end, a supporting-frame therefor, combined with the bottom plate *e*, a transverse guideway in said supporting-frame in which it is free to slide longitudinally, said bottom plate having an imperfo-

rate and a perforate portion, the perforate portion being of less diameter than the diameter of the mold, substantially as described.

4. In a suppository-machine, a cylinder having a mold at the end, a supporting-frame therefor, combined with the bottom plate *e*, a transverse guideway in said supporting-frame in which it is free to slide longitudinally, said bottom plate having an imperforate and a perforate portion, and also having stops *e*³ at its ends, substantially as described.

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

JOHN G. BLOUNT.

Witnesses:

F. H. DAVIS,
B. J. NOYES.