

(No Model.)

J. P. SHEPPARD.

CAN FILLER.

No. 274,039.

Patented Mar. 13, 1883.

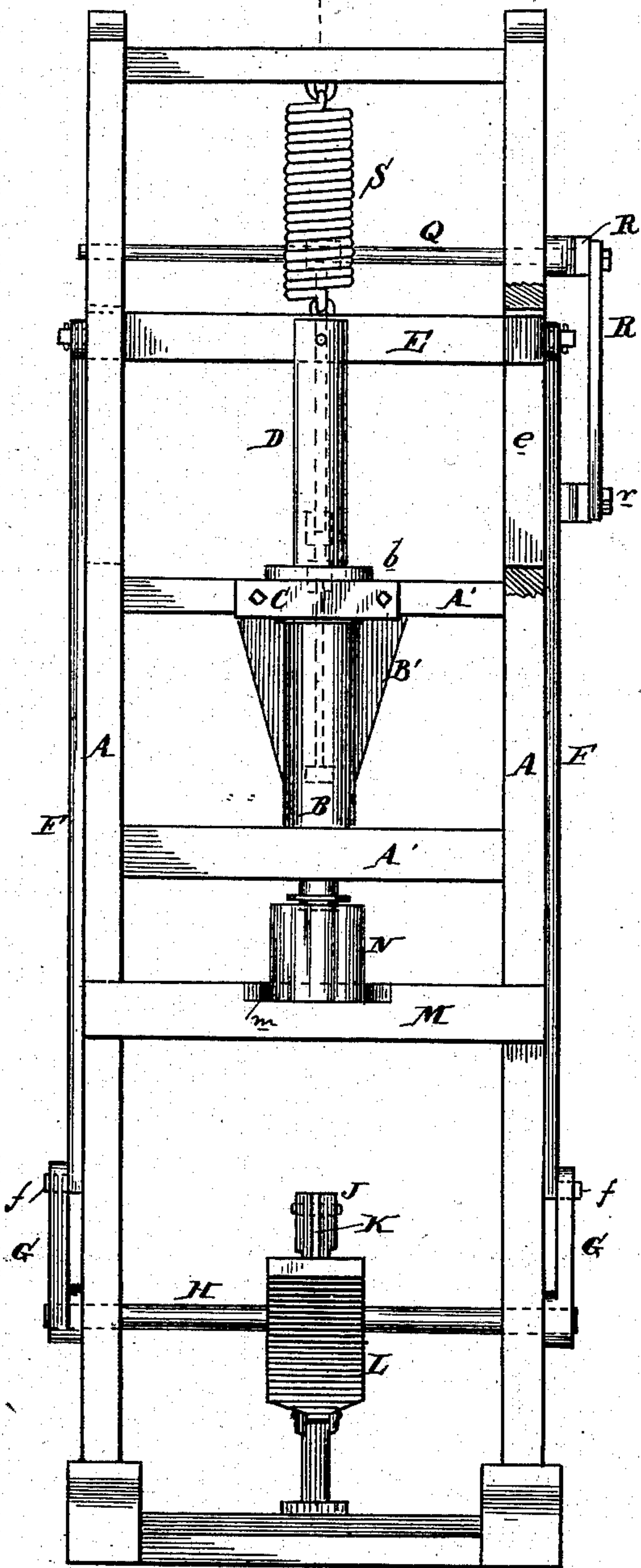


Fig. 1

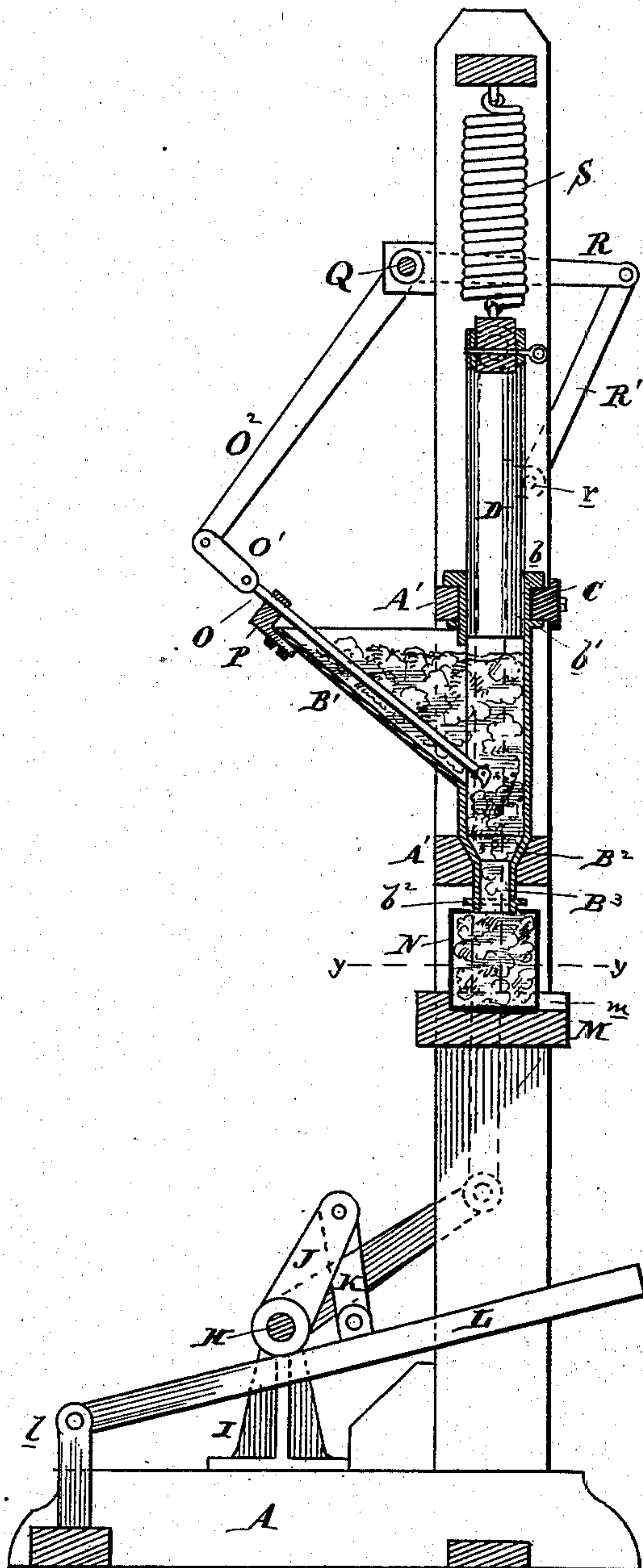


Fig. 2

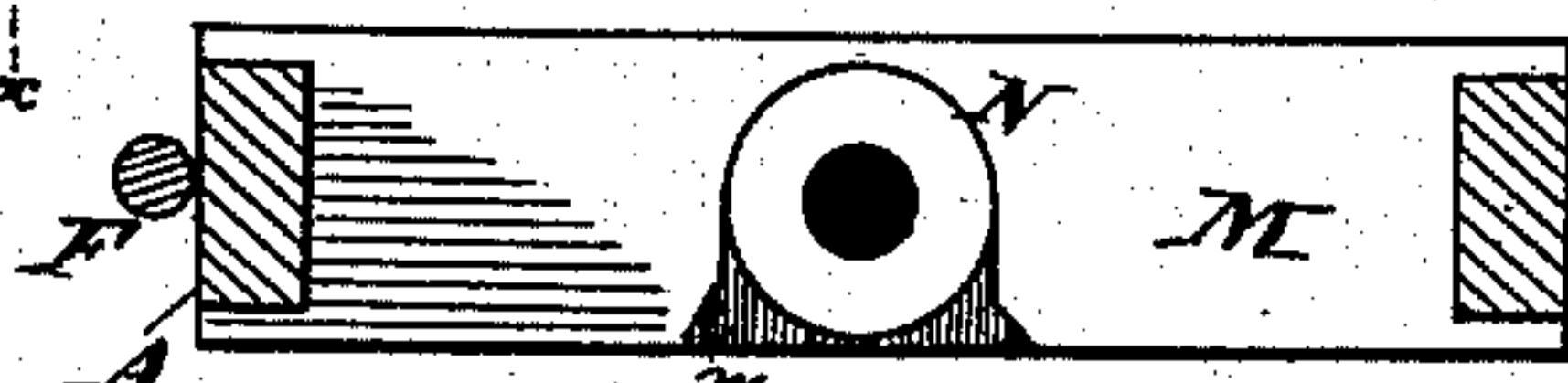


Fig. 3

Inventor

John P. Sheppard

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Jas H. Donahue

UNITED STATES PATENT OFFICE.

JOHN P. SHEPPARD, OF CANTON, NEW JERSEY.

CAN-FILLER.

SPECIFICATION forming part of Letters Patent No. 274,039, dated March 13, 1883.

Application filed December 27, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN P. SHEPPARD, of Canton, Salem county, and State of New Jersey, have invented an Improvement in Can-Fillers, set forth in the following specification.

My invention has reference to machines for filling cans with preserves or other materials in a semi-fluid condition; and it consists in a stationary cylinder having a contracted mouth at bottom and a reciprocating plunger actuated by foot or auxiliary power, and in many details of construction, all of which are set forth in the following specification and shown in the accompanying drawings, which form part thereof.

The object of my invention is to provide suitable mechanism to fill cans with preserved vegetables, fruits, &c., to the end that one operator shall be enabled to do as much as three times the work heretofore possible, thus cheapening the cost of canning and insuring more perfect and uniform filling.

In the drawings, Figure 1 is a front elevation of my improved can-filling machine. Fig. 2 is a sectional elevation of same on line *xx*, and Fig. 3 is a cross-section of same on line *yy*.

A is the frame, and supports in cross-pieces A' the cylinder B, the bottom of which, B², is contracted, ending in a mouth-piece, B³, having a ring, b². The upper end of the cylinder B has rings or flanges b b', which fit above and below the cross-piece A' and keep the cylinder in place by cap C.

B' is a hopper, which opens into the cylinder B.

M is a cross-piece having receiving-notch *m*, in which the can N is placed immediately below the mouth-piece B³, so that the opening in the can admits the said mouth-piece below the flange or ring b².

D is a plunger or piston, which works in the cylinder B, being reciprocated by a cross-head, E, guided by slots *e* in the frame A, and reciprocated vertically by connecting-rods F, arms G, shaft H, supported in bearings I, arm J, link K, and treadle L, pivoted at *l*. The rods F rest against the frame at their bottoms and have outwardly-extending pins *f*, which work in holes in the ends of arms G and are kept therein by said frame A. The cross-head

and plunger are raised by spring S, or other equivalent device, as weights.

O is a feed-rod working in the hopper B' and guided by guide-piece P, and is reciprocated by link O', arm O², rod Q, arm R, and link R', connected to rod F or other moving part of the machine.

I do not limit myself to the particular construction shown, as it may be modified in various ways without departing from my invention—as, for instance, the machine may be operated by steam or water power, the feed-rod O may be dispensed with, &c.

In operating, the preserves are thrown in hopper B, and when the plunger D descends the preserves are forced into the can N, just filling it. As the plunger rises the arm O descends, pressing down more of preserves from the hopper into the cylinder, insuring its being filled. Every time the plunger rises the cans N are changed.

I am aware of the patents to Barker, No. 266,077, of 1882, and No. 245,270, of 1881, and claim nothing therein shown or described.

Having now described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a can-filler, the cylinder B, having contracted mouth, and hopper B', opening into the side of said cylinder and at a distance above the bottom to allow sufficient space in said cylinder to hold enough preserves to fill a can, in combination with support M, plunger D of uniform diameter with the cylinder, and adapted to close it at the top, and means to reciprocate said plunger, substantially as and for the purpose specified.

2. In a can-filler, the cylinder B, having contracted mouth B³, and hopper B', arranged on the side of the cylinder, in combination with support M, having a guide recess or notch, *m*, to receive the can, can N, plunger D, of uniform diameter with the cylinder, and adapted to close it at the top, and means to reciprocate said plunger.

3. In a can-filler, the cylinder B, having contracted mouth B³, and hopper B', in combination with support M, plunger D, of uniform diameter with the cylinder, and adapted to close it at the top, means to reciprocate said

plunger, and means to feed the preserves from the hopper into the cylinder.

4. In a can-filler, the cylinder B, having contracted mouth B³, and hopper B', in combination with support M, plunger D, cross-head E, means to raise said cross-head, rods F, arms G, shaft H, arm J, link K, and foot-lever L.

5. In a can-filler, the cylinder B, having contracted mouth B³ and hopper B', in combination with support M, plunger D, cross-head E, spring S, rods F, arms G, shaft H, arm J, link K, and foot-lever L.

6. In a can-filler, the cylinder B, having contracted mouth B³, and hopper B', in combination with support M, plunger D, cross-head E, spring S, rods F, arms G, shaft H, arm J, link K, and foot-lever L, rod O, link O', arm O², shaft Q, arm R, and link R'. 15

In testimony of which invention I hereunto set my hand.

JOHN P. SHEPPARD.

Witnesses:

R. M. HUNTER,

J. ALFRED SMITH.