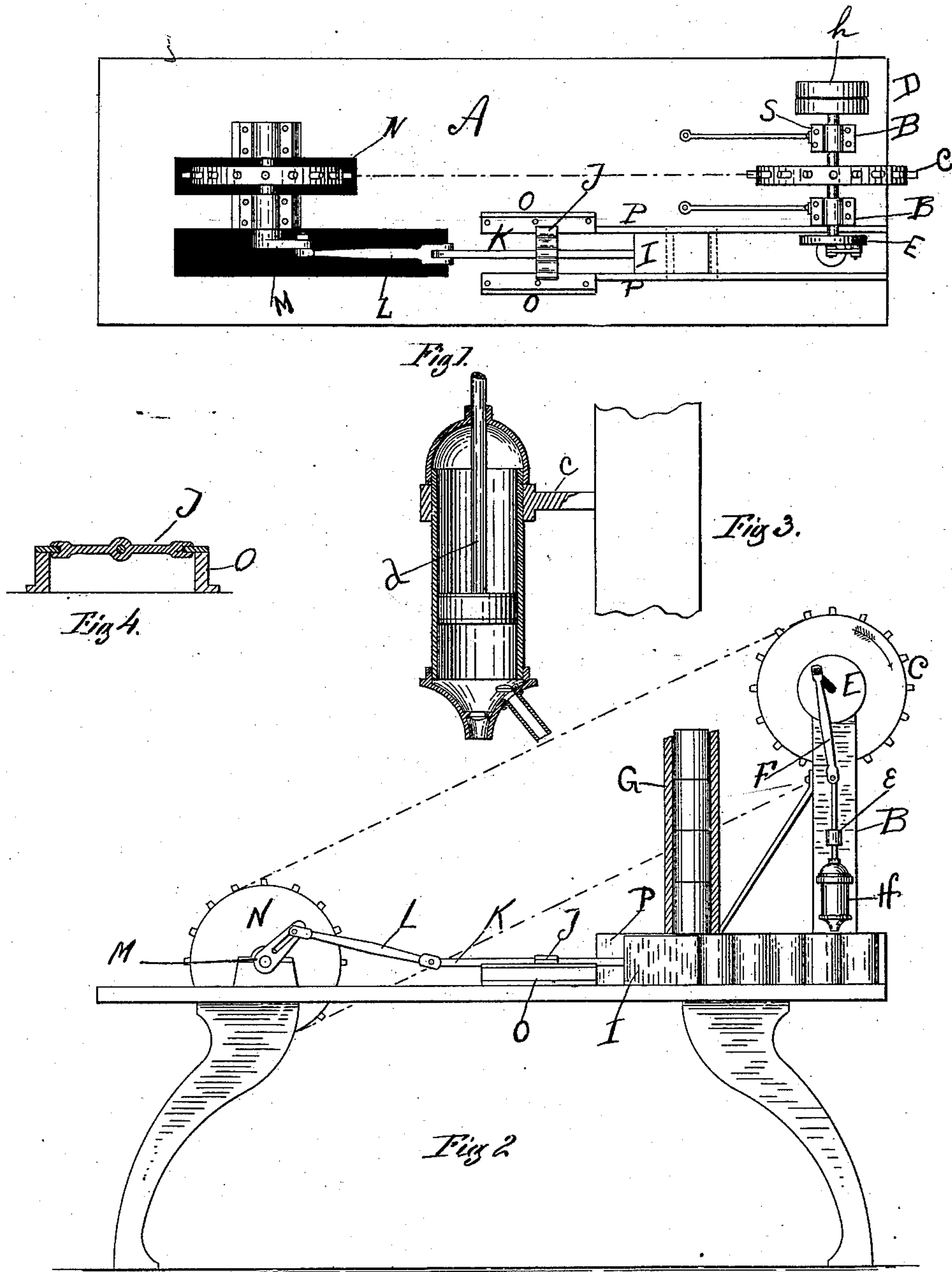


(No Model.)

A. R. MERRELL.  
CAN WATERING MACHINE.

No. 312,648.

Patented Feb. 24, 1885.



Witnesses  
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# UNITED STATES PATENT OFFICE.

ALBERT R. MERRELL, OF MARSHALLTOWN, IOWA.

## CAN-WATERING MACHINE.

SPECIFICATION forming part of Letters Patent No. 312,648, dated February 24, 1885.

Application filed October 7, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, ALBERT R. MERRELL, a citizen of the United States, and a resident of Marshalltown, in the county of Marshall and State of Iowa, have invented a new and useful Can-Watering Machine, of which the following is a specification.

My invention relates to improvements in canning fruits and vegetables.

Heretofore it has been customary to place by hand a certain amount of water in the can, to be used before introducing the fruit or vegetables to be preserved. My object is to provide a machine which shall accomplish this result.

My invention consists in the construction and combination of a table, upright standards, a force-pump, a plunger, a feed-pipe, and suitable shafting and other devices to communicate motion. It is fully illustrated by the accompanying drawings, in which the same letters refer to the same parts throughout.

Figure 1 is a top view of my machine. Fig. 2 is a side view illustrating its practical operation. Fig. 3 is a sectional view of the force-pump, and Fig. 4 is a sectional view of the cross-head.

A is a table. Braced upon it at one end are standards B B, supporting a shaft, *h*, which carries at its end the pulley-wheels D, between the standards B B, the sprocket-wheels C, and at its other end the face-wheel E. The face-wheel E is connected by the pitman F to the plunger *d* of the force-pump H.

In the table A are openings to admit the revolution of a sprocket-wheel, N, and a crank, M, supported by a shaft, T, revolving in bearings attached to the table. Through a slot in the crank M it is jointed to the pitman L, which in turn is jointed to the rod K. The rod K is fastened to the cross-head J, moving between the guides O.

At the end of the rod K is attached a plunger, I, moving on the table A and between the guides P P.

Over the trough formed by the guides P P and the table A is the feed-pipe G. (Indicated by the dotted lines in Fig. 1.)

The pump H is fixed to the standard B by a brace, *c*, and the plunger *d* is guided by a brace, *e*.

In the practical operation of my invention cans are placed in the feed-pipe G. Motion is applied through the pulleys D to the shaft *h* and communicated to the wheels C and E. The wheel N is moved by a drive-chain from C. The wheel E gives motion to the plunger *d* through the pitman F. The wheel N communicates motion through the crank M, the pitman L, and the rod K to the plunger I, moving it backward and forward along the table A in the trough formed by the table and the guides P P under the feed-pipe G. Each backward stroke allows a can to rest on the table, and each forward stroke moves the cans forward between the guides P P. Thus they pass successively through the feed-pipe G upon the table and under the pump H at the time of its downstroke, receiving the contents of the cylinder.

I claim as my invention—

1. In a can-watering machine, the combination of the plunger I, the feed-pipe G, the guides P P, and the pump H, substantially as and for the purposes shown and described.

2. The combination of the table A, the wheel N, the crank M, the pitman L, the rod K, the cross-head J, the plunger I, the feed-pipe G, and the pump H, for the purposes shown.

3. The combination of the table A, the wheel N, the crank M, the pitman L, the cross-head J, the plunger I, the feed-pipe G, the wheels D, C, and E, the shaft *h*, the standards B B, the pitman F, and the pump H, substantially as and for the purposes shown and described.

ALBERT R. MERRELL.

Witnesses:

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