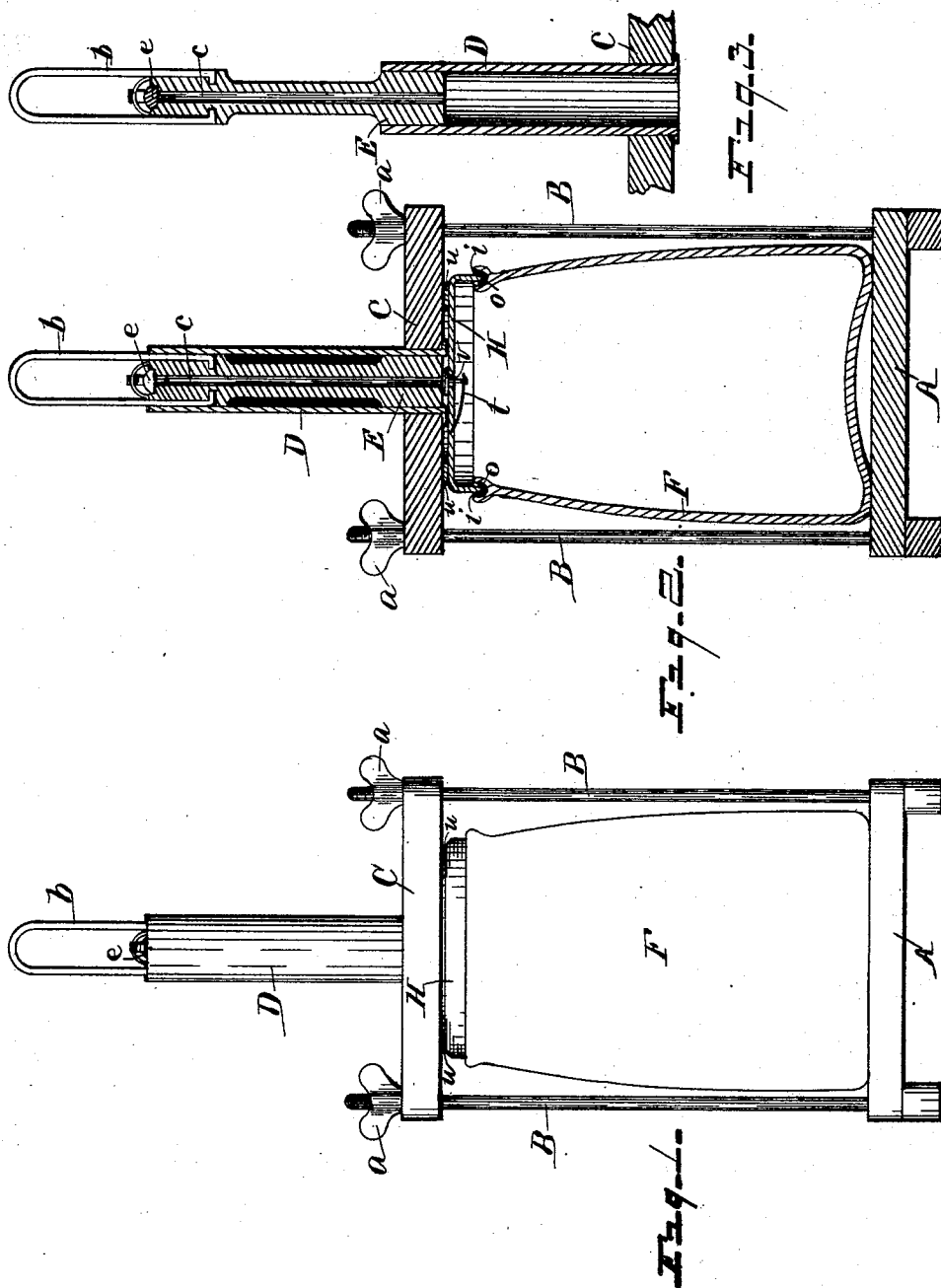


(No Model.)

J. J. ISLER.
FRUIT CANNING DEVICE.

No. 477,805.

Patented June 28, 1892.



ITNESSES.
B. A. Wheeler
E. Wheeler

INVENTOR
J. T. Isler
BY
Ramon B. Wheeler
attly

UNITED STATES PATENT OFFICE.

JOHN J. ISLER, OF ELK RAPIDS, MICHIGAN.

FRUIT-CANNING DEVICE.

SPECIFICATION forming part of Letters Patent No. 477,805, dated June 28, 1892.

Application filed June 4, 1891. Serial No. 395,043. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. ISLER, a citizen of the United States, residing at Elk Rapids, in the county of Antrim and State of Michigan, have invented certain new and useful Improvements in Fruit-Canning Devices; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to an improved device for canning fruit and other perishable products; and it consists in a certain construction and arrangement of parts, as hereinafter fully set forth, the essential features of which being pointed out particularly in the claims.

The object of the invention is to produce a canning device that is simple and inexpensive, by means of which fruit and other articles may be quickly and easily canned and in such manner as to be perfectly preserved. This object is attained by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of my improved device, showing a can in position therein. Fig. 2 is a central vertical section through Fig. 1. Fig. 3 is a vertical central section through the cylinder and plunger, showing the plunger drawn out.

Referring to the letters of reference, A designates a base which is rectangular in form and made, preferably, of wood.

B designates a series of vertical rods, the lower ends of which are secured in the base A. The upper ends of said rods pass loosely through the corners of the rectangular cap C and are threaded to receive the thumb-nuts *a*, which bear upon the upper face of said cap.

D designates a vertical tube or cylinder, the lower end of which extends through the cap C and is secured therein.

E designates a plunger or piston that tightly fills the cylinder D and is adapted to reciprocate therein. Said plunger is provided with the looped handle *b*, secured to its upper end, by means of which it is actuated, and, with the central opening *c*, passing longitudinally

therethrough, which is closed at its upper end by the valve *e*.

F designates the can, which is provided with an annular groove *i* in its upper edge, in which is placed a ring of rubber *o*.

H designates the can-cover, the depending edge of which is adapted to enter the groove *i* in the top of the can and bear upon the rubber *o* therein, as clearly shown in Fig. 2.

In the top of the cover H is a central opening closed by the valve *v*, the stem of which extends through the cover and is attached to one end of the spring *t*, which is secured to the under face of the cover and serves to retain said valve on its seat.

In the operation of canning with this improved device the can is filled with the fruit or article to be canned in the ordinary manner, the cover H is placed thereon and the can placed upon the base A under the cap C, so that the valve *v* in said cover will register with the lower end of the cylinder D, a flat rubber ring *u* being interposed between the cover and the under face of the cap C. Then by turning the thumb-nuts *a* the cap C is depressed, forcing the cover down upon the rubber *o* in the groove *i* in the top of the can and compressing the runner-ring *u* between said cover and the under face of said cap, thereby making it air-tight between the can and cover and between the cover and cap around the lower end of the cylinder D, when by drawing the plunger E upward, as shown in Fig. 3, the air will be entirely extracted from the can, the spring *t* yielding sufficiently to permit the valve *v* to rise to admit of the passage of the air therefrom. The can may then be removed by loosening the thumb-nuts *a*, the exhaustion of the air from said can being so complete that the cover remains held in place and the valve *v* closed by atmospheric pressure. The central opening *c* through the plunger, closed at the top by the valve *e*, permits the escape of the air from the cylinder when the plunger is forced downward therein, and the bottom of said cylinder is closed by the cover of the can when the can is in position, as shown in Figs. 1 and 2.

While I have shown the top of the can provided with a groove with a ring of rubber therein, into which the edge of the cover is forced, it is evident that the cover may be

screwed onto the top of the can in the ordinary manner, if desired.

It will now be apparent that by means of this improved canning device the air may be quickly and entirely exhausted from the can, thereby maintaining the article canned in a perfect state of preservation.

Having thus fully set forth my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the can having an annular recess in its upper edge, a packing-ring in said recess, the cover having a depending flange that enters the recess in the upper edge of the can and bears upon said packing-ring, said cover also having an opening therein, and a valve to close said opening, the stem of which extends downward there-through, the spring attached to the under face of said cover and engaging said valve-stem, substantially as set forth.

2. The combination of a jar or can with an elastic packing-ring thereon, and a cover fitted to the jar or can and ring thereon, adapted

for preserving fruit and other purposes, the said cover having an opening therein for the extraction of air by pumping, and a valve fitted to close the same, and a spring within the cover under the opening arranged to hold the valve on its seat and to permit the valve to open for the escape of air during its extraction and so as to allow the pressure of the external air to hold the valve closed after the operation of canning or sealing is completed.

3. A jar or can having a cover with a hole therein and a valve to close the same, and a spring under the hole arranged to hold the valve on its seat and to permit it to open for the extraction of air and to close it to prevent the re-entry of air when the operation of canning or sealing is completed.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN J. ISLER.

Witnesses.

JAMES P. BRAND,
J. J. McLAUGHLIN.