

B. B. HOGABOOM.  
 AUTOMATIC CUT-OFF FOR PACKAGE FILLING MACHINES.  
 APPLICATION FILED DEC. 1, 1910.

1,058,305.

Patented Apr. 8, 1913.

2 SHEETS-SHEET 1.

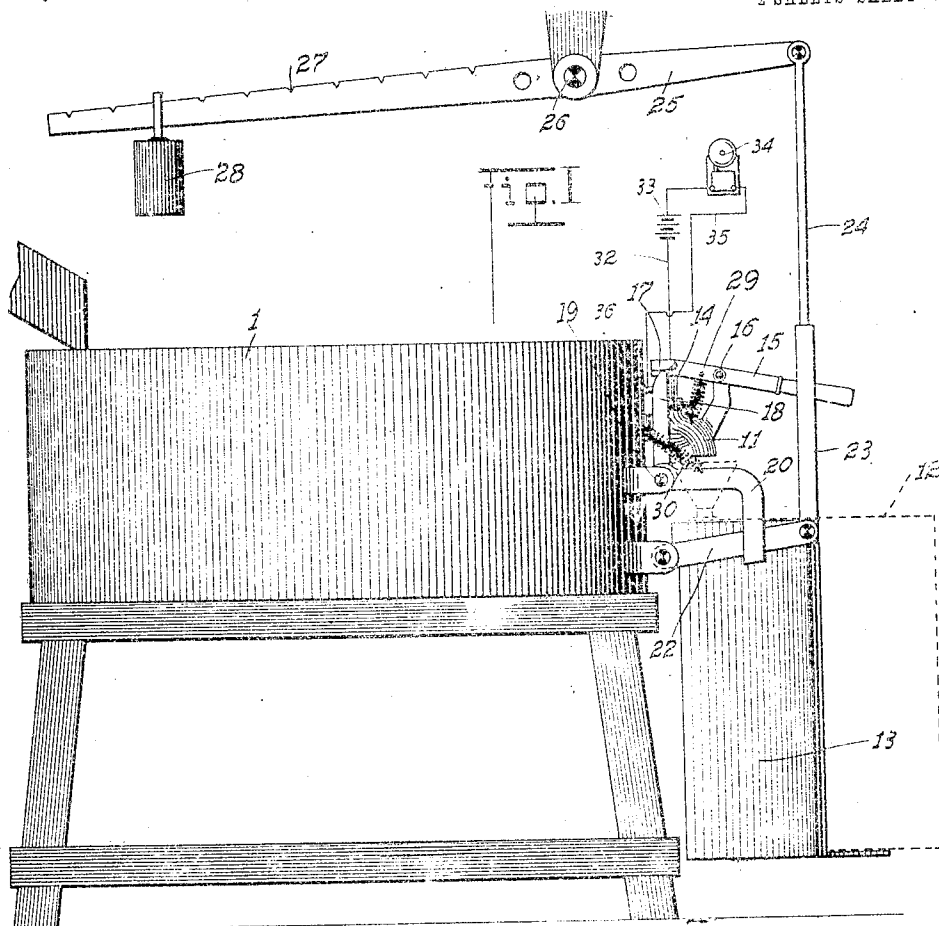
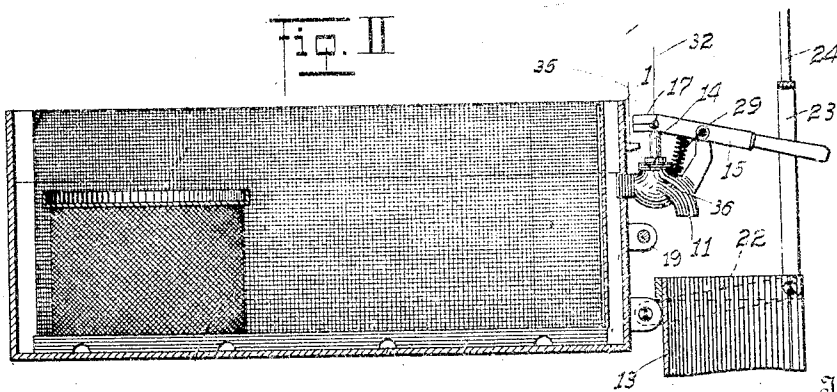


Fig. II



Witnesses

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 Attorney

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Fig. III

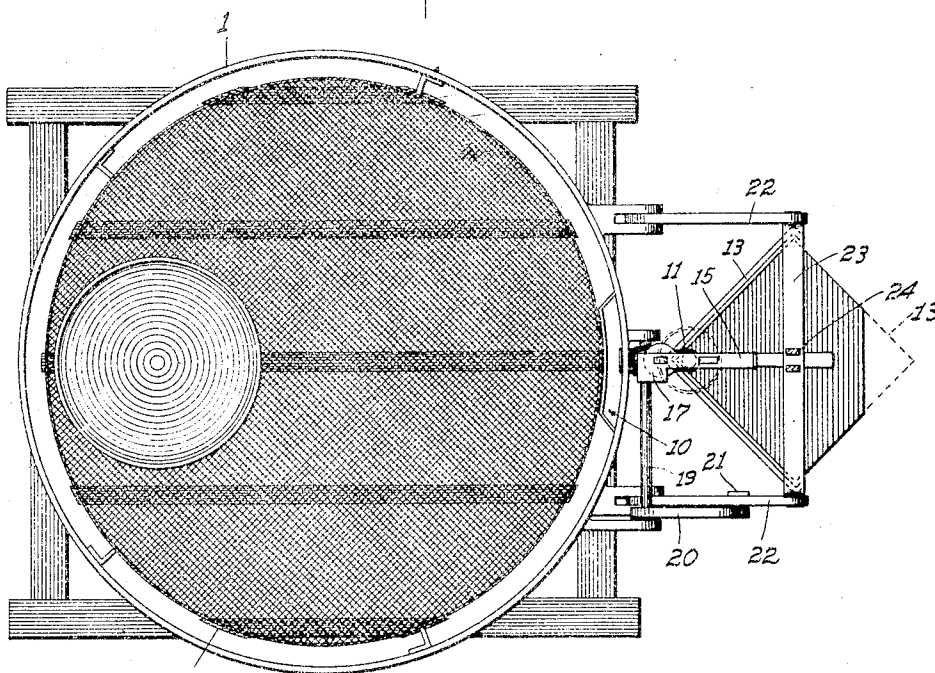
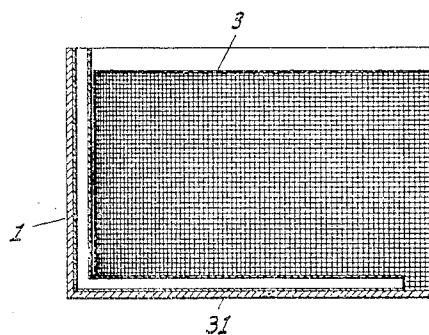


Fig. IV



Witnesses  
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# UNITED STATES PATENT OFFICE.

BENJAMIN B. HOGABOOM, OF ELK GROVE, CALIFORNIA.

AUTOMATIC CUT-OFF FOR PACKAGE-FILLING MACHINES.

1,058,305.

Specification of Letters Patent.

Patented Apr. 8, 1913.

Application filed December 1, 1910. Serial No. 595,149.

*To all whom it may concern:*

Be it known that I, BENJAMIN B. HOGABOOM, a citizen of the United States, residing at Elk Grove, in the county of Sacramento, State of California, have invented certain new and useful Improvements in Automatic Cut-Offs for Package-Filling Machines; and I do declare the following to be a full, clear, and exact description of the same, 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 characters of reference marked thereon, which form a part of this application.

This invention relates to improvements in honey weighing devices, the object of the invention being to produce a filling means for filling cans with honey, having a weighing means whereby when the can is full, the supply will be automatically shut off.

A further object of the invention is to produce a simple and inexpensive device and yet one which will be exceedingly effective for the purposes for which it is designed.

These objects I accomplish by means of such structure and relative arrangement of parts as will fully appear by a perusal of the following specification and claims.

In the drawings similar characters of reference indicate corresponding parts in the several views.

Figure I is a side elevation of the complete device. Fig. II is a vertical cross section of the same. Fig. III is a top plan view of the complete device. Fig. IV is a fragmentary view showing a modified form of strainer.

Referring now more particularly to the characters of reference on the drawings, 1 designates the strainer tub having a discharge comprising a valve 11 adapted to discharge into the packing receptacle 12 held in a support 13. The stem 14 of such valve 11 is provided with a lever 15 fulcrumed at 16 and having on its inner end a projecting lug 17 against which an arm 18 normally rests when the valve is open and which holds such valve in its open position, such arm being fulcrumed at 19 and having an elbow 20, such elbow having on its lower end an inwardly projecting shoulder 21.

The frame 13 is suspended in arms 22 having a cross member 23 provided with an upwardly projecting rod 24 connected with

a lever 25 fulcrumed at 26 and provided with notches 27 adapted to receive and hold a weight 28. One of the arms 22 is in direct alinement with the shoulder 21.

When a can of honey is being filled which weighs approximately sixty-two pounds, the weight 28 is set at such a point on the lever 25 by means of the notches 27 as to permit the support 13 to move downward when the can is full, and as such support 13 moves downward it causes the arm 22 to strike the shoulder 21 which operates the elbow 20 to move the arm 18 on its pivotal point 19 and disengages it from the lug 17, whereupon a spring 29 pulling on the lever 15 closes the valve 11, thus automatically shutting off the supply of honey. Then when a new can is placed and ready to be filled the valve 11 is opened by means of a lever 15 and set in such open position by means of the arm 18 being inserted under the lug 17 and thereupon the above described operation is repeated.

A spring 30 holds the elbow 11 and its corresponding parts in their normal operative position.

Of course, any size or weight of can 12 can be used by adjusting the weight 28 as aforesaid.

In order to give an alarm to the operator that the can is filled and the valve closed, I provide an electric wire 32 connected with the lever 15 and having a source of electrical energy 33 and connected also with a bell 34, there being another wire 35 connected from said bell back to a contact point 36 normally spaced from the lever 15 when the valve is open, as shown in Fig. 1. Now, when the arm 18 is disengaged from the lug 17, and the spring 29 pulls the lever 15 to close the valve, it also brings such lever 15 into contact with the point 36, thereby closing the circuit through the described wires and electrical energy to the bell 34 causing said bell to sound an alarm to notify the operator that the can is filled and the valve closed, and thus give him an opportunity to at once replace the filled can with an empty can and to open the valve for further operation.

From the foregoing description it will readily appear that I have produced an automatic shut off which will substantially fulfil the objects of the invention as set forth herein.

While this specification sets forth in de-

tail the present and preferred construction of the device, still in practice, such deviations from such detail may be resorted to as do not form a departure from the spirit  
5 of the invention.

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

1. A device of the character described  
10 comprising the combination of a receptacle, a valve connecting with said receptacle and having a stem, a lever fulcrumed independently of said stem and being connected therewith, a spring pressed arm normally  
15 engaging said lever to hold said valve open, a receiving receptacle into which said valve discharges and means interposed between said receiving receptacle and said arm to cause said arm to disengage said lever when  
20 said receiving receptacle is filled to a certain predetermined weight as described.

2. A device of the character described comprising a receptacle, a discharge valve leading from said receptacle, a stem on said  
25 valve, a spring pressed lever fulcrumed at a point independent of said stem and being flexibly connected with said stem, a projecting lug on said lever, a pin, an arm mount-

ed upon said pin and adapted to engage said lug, an elbow on said pin, a pair of arms  
30 mounted in hinged relation to said receptacle, a scale beam, a frame suspended from said scale beam, said arms being flexibly connected with said beam, one of said arms being adapted to engage said elbow.  
35

3. A device of the character described comprising a receptacle, a valve leading from said receptacle, a stem on said valve, a spring pulled lever fulcrumed independently of said stem and being connected,  
40 therewith, an arm normally engaging said lever to hold said valve open, such arm being fulcrumed at an independent point with respect to such lever, an elbow on said arm, arms pivotally mounted independently of  
45 the said elbow and adapted to carry a receptacle, such arms being adapted to engage said elbow when said last named receptacle is filled to a pre-determined weight,  
50 as described.

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

BENJAMIN B. HOGABOOM.

Witnesses:

JOSHUA B. WEBSTER,  
FRANK H. CARTER.