No. 885,332. PATENTED APR. 21, 1908.

H. L. FORHAN.

REVOLVER FOR PROCESSING CANNED GOODS.

APPLICATION FILED FEB. 13, 1907.

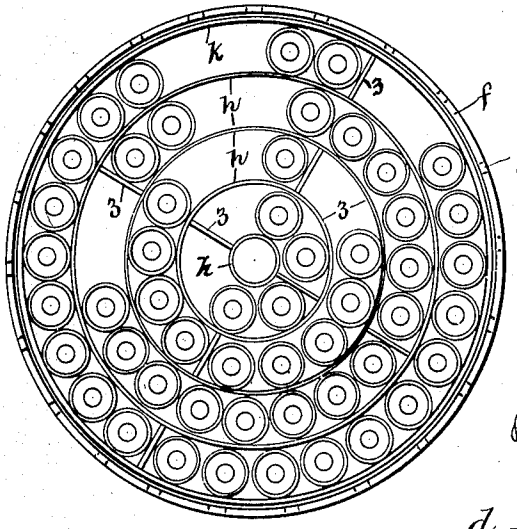


Fig. 1

Fig. 2.

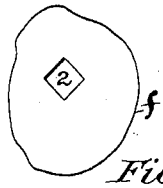


Fig. 3.

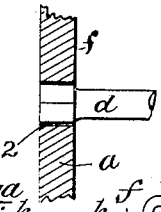
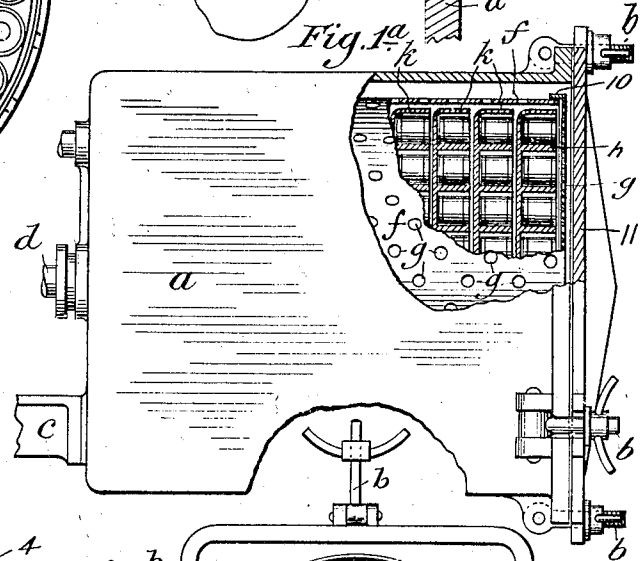


Fig. 1a.



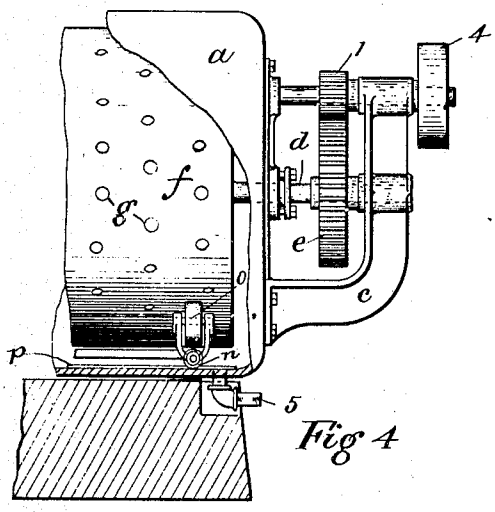


Fig 4

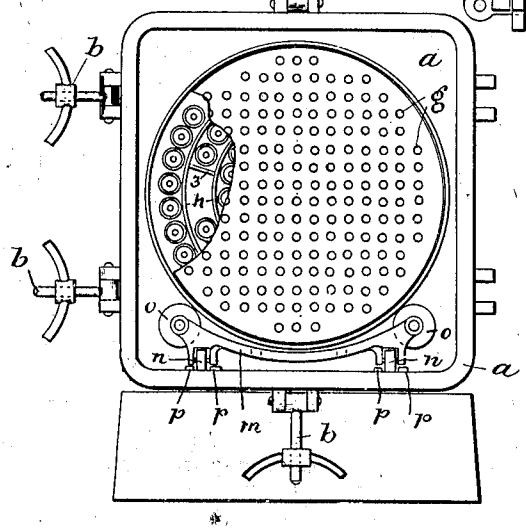


Fig. 5

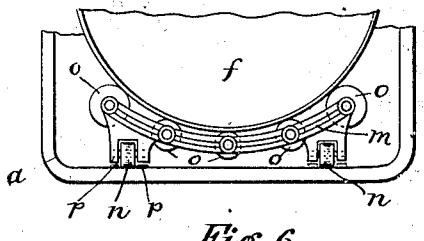


Fig. 6

Witnesses:
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Atty.

UNITED STATES PATENT OFFICE.

HENRY L. FORHAN, OF PORTLAND, MAINE.

REVOLVER FOR PROCESSING CANNED GOODS.

No. 885,332. Specification of Letters Patent. Patented April 21, 1908.

Application filed February 13, 1907. Serial No. 357,178.

To all whom it may concern:

Be it known that I, HENRY L. FORHAN, a citizen of the United States, residing at Portland, in the county of Cumberland and State of Maine, have invented an Improved Revolver for Processing Canned Goods; and I hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

It is the purpose of my invention to provide a container or revolver for holding hermetically sealed cans while they are being processed in the retort, the said container being so constructed and operated as to cause each can to revolve during the process and at some point during such revolution of the can to receive a sudden check by which the revolution of the can is suspended thus agitating the contents.

In the drawing: Figure 1 is an end view of the container or revolver; Fig. 1ª illustrates a side elevation of my device with parts broken away; Fig. 2 is a detail showing the recess in the rear end of the revolver for the admission of the shaft; Fig. 3 is a detail showing the rear wall of the revolver in cross section and a portion of the shaft therein; Fig. 4 is a side elevation showing the rear end of the retort and revolver; Fig. 5 is an end view of the ordinary retort with the door removed and the revolver therein; Fig. 6 is a detail showing the rollers disposed from side to side of the track.

The retort *a* is of the ordinary construction, see Figs. 4 and 5. It is provided at the side of the front end with the ordinary swinging clamps *b*, *b*, by which the door is clamped in position. At the rear end, the retort is also provided with a bracket *c* which supports in a proper journal the shaft *d* which enters the rear end of the retort through a suitable air tight packing and terminates in a square or rectangular head. This shaft *d* may be provided, as shown in Fig. 4, with a gear *e*, intermatching the gear 1 upon a shaft having a pulley 4 which may be belted to the main or other shaft or various other means for imparting power to the shaft *d* may be used. The bottom of the retort should be provided at either side with the tracks or guides *p*, *p*. *f*, see Fig. 1, is a hollow cylinder of metal, the ends and sides of which I prefer to perforate with small holes *g*, *g*. The rear end of the cylinder is centrally provided with a square or rectangular opening 2 for the reception of the square end of the shaft *d*. The front of this cylinder has a removable cap 10 which may be secured, when desired, to the cylinder by clamps, locks or other fastening devices. For the reception and holding of the cans, I provide pans *k*, *k*, the diameters of which are slightly less than the diameter of the cylinder *f*. Each pan *k* is provided with concentric circular partition walls *h*, *h*. Between each pair of circular partitions is a partition 3 bisecting the space within such pair placed diametrically and alternately if preferred.

The operation of the device is as follows: The pan *k* is placed upon its side and nearly, but never quite, filled with cans as shown in Fig. 1, a space being left in each of the compartments formed by means of the circular partitions *h*, *h*, and the transverse partitions 3, 3. When the pans have been thus provided with cans, they are placed within the cylinder *f* until it is filled with pans. The cap of the cylinder is now placed in position and secured and the cylinder placed upon a specially constructed truck *m*, see Fig. 5. This truck is provided with wheels *n*, *n*, at each corner adapted to run in the tracks *p*, *p*, and is also provided with two rollers *o*, *o*, one on each side, see Fig. 5, the axes of these rollers being at right angles to the axes of the wheels *n*, *n*. I do not, however, confine myself to a single roller at each side of the truck, as their number may be increased so that the cylinder rests upon a succession of rollers extending from side to side of the truck diminishing gradually in diameter towards the center. The truck is now rolled into the retort, as shown in Fig. 5, upon the tracks *p*, *p*, and when the cylinder *f* is completely within the retort the aperture 2 in the rear of the cylinder receives the square end of the shaft *d*. The door 11 is now closed in the ordinary manner and clamped and steam admitted to the retort through the pipe 5, see Fig. 4. Power is applied to the shaft *d* by means of the pulley 4, see Fig. 4, which causes the cylinder *f* to revolve, the cans being rotated continuously and receiving from time to time as they meet the partitions 3, 3, such arrest of revolution as causes the agitation of the contents.

The cooling of the cans may be effected before removal from the retort, cold water being admitted through the pipe 5, and the cylinder operated in the same manner as while the

cans are being processed or, if preferred, the cylinder *f* may be removed from the retort after the processing is accomplished and placed in a like retort to which cold water may be admitted and the cylinder *f* then revolved as during the processing of the cans.

What I claim is:

1. The combination of a retort, a cylinder adapted to revolve therein, means for revolving said cylinder, a series of pans provided with circular partitions which in turn are provided with a transverse partition, all substantially as described.

2. In an apparatus for processing canned goods, a cylinder or container a retort, a truck adapted to be received therein and having rollers on each side of said truck adapted to receive and support said cylinder or container, a series of pans within said cylinder adapted to receive the cans and means whereby said cylinder may be rotated within said retort, substantially as described.

In testimony, that I claim the foregoing as my invention I have hereunto set my hand this eleventh day of February, A. D. 1907.

HENRY L. FORHAN.

Signed in presence of—
A. G. McPherson,
Geo. E. Bird.