

No. 857,388.

PATENTED JUNE 18, 1907.

E. S. ENO.
METHOD FOR TESTING FILLED AND CLOSED CANS.
APPLICATION FILED JUNE 7, 1906.

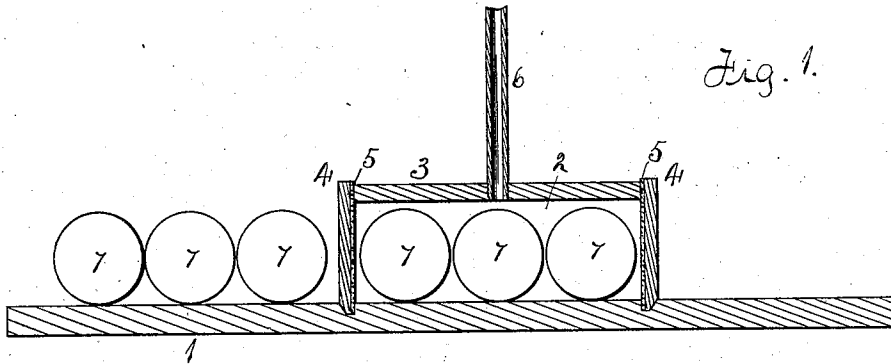


Fig. 3.

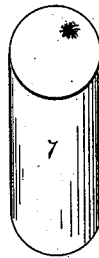
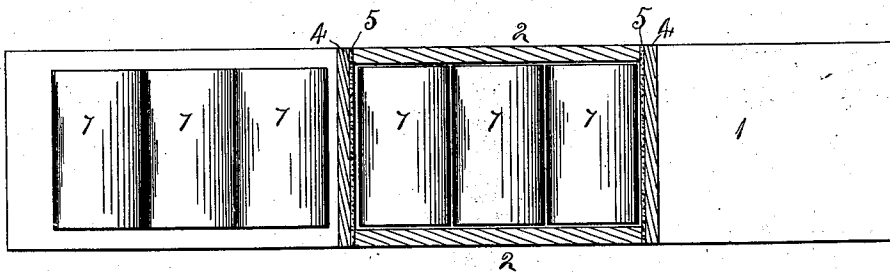


Fig. 2.



Witnesses:
Wm E. Briggs
E. Behel,

Inventor:
Edward S. Eno
By A. O. Behel
attys.

UNITED STATES PATENT OFFICE.

EDWARD S. ENO, OF ELGIN, ILLINOIS.

METHOD FOR TESTING FILLED AND CLOSED CANS.

No. 857,388.

Specification of Letters Patent.

Patented June 18, 1907.

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To all whom it may concern:

Be it known that I, EDWARD S. ENO, a citizen of the United States, residing at Elgin, in the county of Kane and State of Illinois, have invented certain new and useful Improvements in Methods for Testing Filled and Closed Cans, of which the following is a specification.

The object of this invention is to subject tin cans after they have been filled and closed, to the action of a partial vacuum whereby the external pressure is partially removed from around the can, which will permit some of the liquid contents to ooze out through any opening that may be revealed by this method.

In the accompanying drawings, Figure 1 is a vertical section of an apparatus for carrying out my method. Fig. 2 is a horizontal section of the same. Fig. 3 is a perspective view of a can showing the result of my method.

The apparatus for carrying out my method comprises a base 1, and a receptacle formed of the sides 2, and top 3. The ends 4 are removable, and their inner faces provided with packing lining 5. A pipe 6 has a connection with the top of the receptacle to which is to be connected an exhaust fan or pump.

The cans 7 are filled with liquid, in this instance, with condensed milk, and closed in the usual manner. A number of the filled and closed cans are placed in the receptacle,

and the ends 4 placed against the ends of the receptacle. The air is then partly exhausted from within the receptacle. Should any of the cans leak, the air within the leaky cans will escape from the cans carrying some of the liquid contents with it. Air is again permitted to fill the receptacle when the ends can be removed allowing the cans within the receptacle to be taken out and replaced by others. The cans taken out of the receptacle are inspected, and if the liquid contents has oozed out it will show where the leak is.

I am aware that cans have been subjected to air pressure in order that air may enter any leaky cans and bulge them, the pressure is then removed which will leave the cans in their bulged condition, but my invention differs from this method by treating filled cans and detecting any leaky ones by the liquid contents showing on the outside of the cans.

I claim as my invention.

The method herein described of testing closed and filled cans containing liquids, which consists in placing the cans in a receptacle, closing the receptacle hermetically, then exhausting the air from the receptacle to a certain degree and finally allowing the receptacle to fill with air.

EDWARD S. ENO.

Witnesses:

WM. R. TOWNSEND,
HERBERT S. ENO.