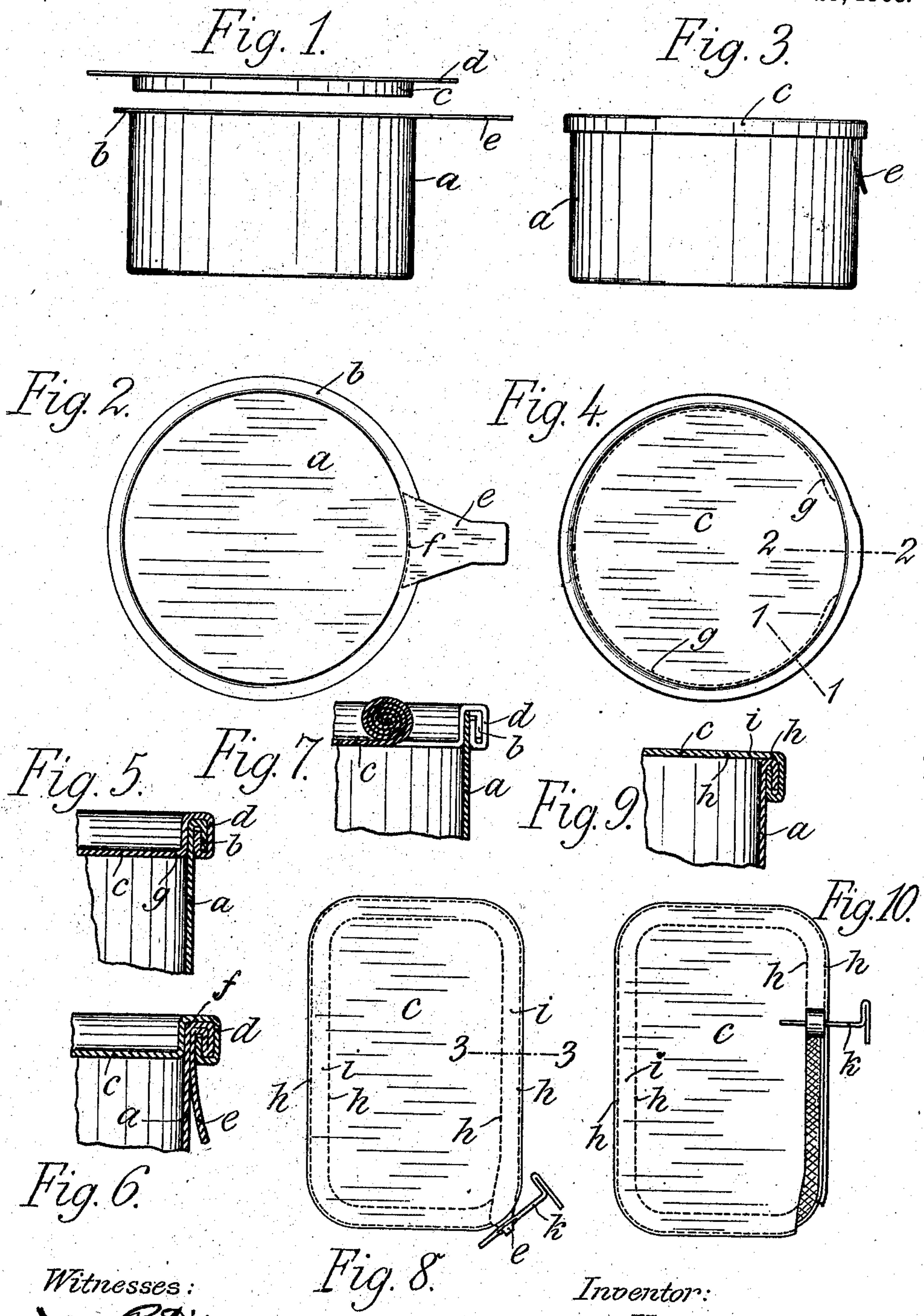


K. LYE.  
 OPENING DEVICE FOR CANS.  
 APPLICATION FILED JUNE 12, 1907.

907,828.

Patented Dec. 29, 1908.



Witnesses:  
*W. P. Burke*

Inventor:  
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# UNITED STATES PATENT OFFICE.

KRISTIAN LYE, OF STAVANGER, NORWAY.

## OPENING DEVICE FOR CANS.

No. 907,828.

Specification of Letters Patent.

Patented Dec. 29, 1908.

Application filed June 12, 1907. Serial No. 378,550.

*To all whom it may concern:*

Be it known that I, KRISTIAN LYE, sergeant, a citizen of Norway, residing at Opheimsgaden 69, Stavanger, Norway, have invented new and useful Improvements in Opening Devices for Cans, of which the following is a specification.

My present invention relates to improvements in opening devices for cans or boxes adapted to contain preserved fruit, snuff, tobacco, etc. The opening device forming the object of this invention is equally applicable to round, rectangular, oval or otherwise formed cans. Further my opening device is of such a kind, that soldering can be thoroughly-dispensed with.

The accompanying drawing illustrates by way of example some forms of the present opening device.

Figure 1 is a side view of box body and cover before the parts have been folded together. Fig. 2 is a plan view of the box body shown in Fig. 1. Figs. 3 and 4 are side view and plan view of the box in a ready state. Fig. 5 is a section on the line 1—1, Fig. 4. Fig. 6 is a section on the line 2—2, Fig. 4. Fig. 7 is a section corresponding to Fig. 6 showing the parts after the opening has begun. Fig. 8 is a plan view showing a modified arrangement of the opening lines. Fig. 9 is a section on the line 3—3, Fig. 8, and Fig. 10 is a plan view corresponding to Fig. 8 and showing the parts after the opening has begun.

The box body —a— is pressed out with an upper flange —b— turned outwards (Fig. 1), and corresponding thereto the cover —c— has a seam flange —d—. At a suitable place of the flange —b— is arranged an extension or opening lip —e— integral with the flange —b—, and preferably around the root of said lip weakening lines —f— are provided in the sheet material.

The body —a— and cover —c— are folded together in the manner illustrated in Fig. 5. During this folding the inner part of the lip —e— also is folded into the seam as illustrated in Fig. 6, while the outer part of the lip projects out from the seam, see Fig. 6.

When the box shall be opened the lip —e— is caught in usual manner by the opening key and rolled around the same. Hereby the inner end of the lip is pulled out from the seam and the flange material —d— of the cover is at the same time torn out at

the part, into which the lip is located. Said part of the material —d— is thus coiled together with the lip around the opening key. When now the lip is quite separated from the box body along the lines —f— the materials —e— and —d— have been coiled so firmly together, that the further opening (see Fig. 7) will take place, as if the coiled parts —e— and —d— were integral, the material of the cover being separated along the weakening lines —g— (Fig. 4).

In order that the contents of the box may be laid completely open, the device may be arranged as illustrated in Figs. 8–10, in which the lip —e— is arranged in a corner of a rectangular box, the cover of which is provided with two parallel weakening lines —h—, whereby not the whole cover, but only the strip —i— located between the lines —h— is coiled around the opening key —k— as illustrated in Fig. 10. When this strip —i— has been torn out all around the cover, the box can be easily emptied by turning it over.

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

1. The combination with a box body having an upper seaming flange, and a lip forming at a suitable place an extension of said flange, of weakening lines arranged around the root of the lip, a cover provided with a corresponding seaming flange folded together with the flange of the box body in order to hermetically seal the box, weakening lines arranged in the cover beginning at the inner end of the lip and passing near the seam all around the box, the inner part of said lip being folded into the seam, while the outer part of the lip projects from the seam so as to be adapted to be caught by a usual opening key and coiled around the same for opening the box.

2. The combination with a box body having an upper seaming flange and a lip forming at a suitable place an extension of said flange, of weakening lines arranged around the root of the lip, a cover provided with a corresponding seaming flange folded together with the flange of the box body in order to hermetically seal the box, two parallel weakening lines arranged in the cover beginning at the inner end of the lip and following round the box the outer of said parallel weakening lines being located above the

seam and said lines forming between them a narrow strip to be torn away, the inner part of said lip being folded into the seam, while the outer part of the lip projects from the  
5 seam so as to be adapted to be caught by a usual opening key and coiled around the same for opening the box.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

KRISTIAN LYE.

Witnesses:

ANNA BARUM,  
GEORGE HANSON NORMAN.