Aug. 3, 1926. 1,594,791

A. A. MILLER

CONTAINER

Filed Jan. 10, 1925

Fig. 1.

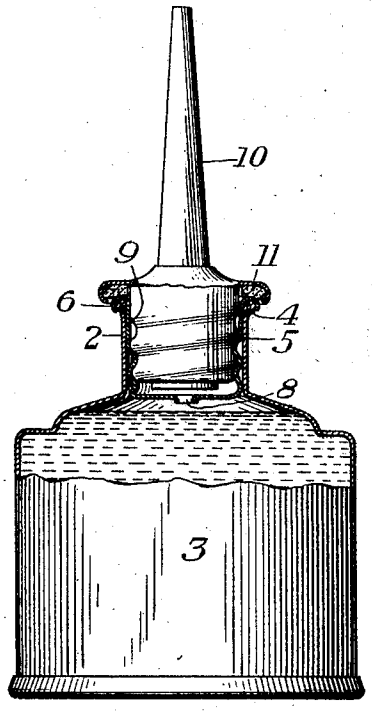


Fig. 2.

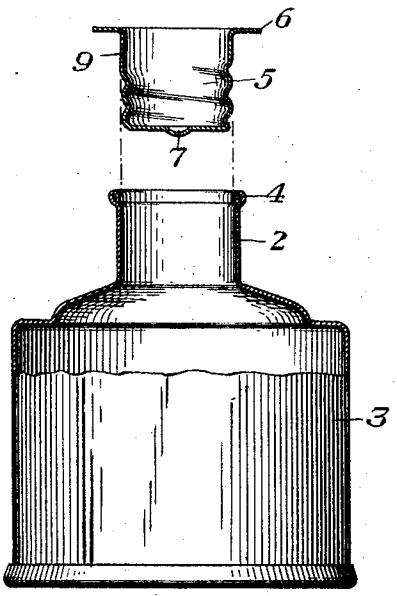


Fig. 3.

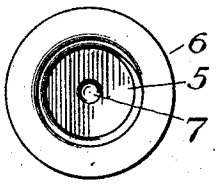


Fig. 4.

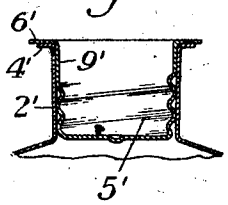
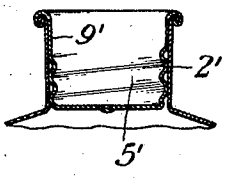


Fig. 5.



INVENTOR

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his Attys

Patented Aug. 3, 1926. 1,594,791

UNITED STATES PATENT OFFICE.

ALBERT A. MILLER, OF WELLSBURG, WEST VIRGINIA, ASSIGNOR TO EAGLE MANUFACTURING COMPANY, OF WELLSBURG, WEST VIRGINIA, A CORPORATION OF WEST VIRGINIA.

CONTAINER.

Application filed January 10, 1925. Serial No. 1,567.

The present invention relates to containers for oil and similar liquids, and more particularly to containers having detachable spouts through which their contents are dispensed.

I provide a leak-proof closure for sealing the outlet neck of a container after the latter is filled which becomes a permanent fixture in the neck of the container and cannot be removed without destroying the neck. The contents of the container can be removed therefrom by puncturing this sealing closure and pouring through the outlet neck or the sealing closure may be provided with threads whereby a detachable spout may be screwed into the neck after the sealing closure has been punctured.

In the accompanying drawings:

Figure 1 is a view partly in elevation and partly in section of a container embodying a preferred form of my invention;

Figure 2 is a view partly in elevation and partly in section of the container body and closure member prior to assembly;

Figure 3 is a plan view of the closure member shown in Figure 2; and

Figures 4 and 5 are detail sectional views showing a modification of the invention.

In carrying out the present invention the neck 2 of the body 3 of the sheet metal container is preferably drawn up smooth and its upper edge portion pressed over inwardly to form a narrow lap seam 4.

Into the neck is inserted a thimble 5 of brass or other suitable material. This member is formed with an outwardly extending flange 6 at its upper edge and preferably has screw threads rolled in its lower portion. The bottom of the thimble is formed imperforate but may have a central depression 7 pressed therein to facilitate punching a hole 8 through the same when it is desired to put the container into use.

After the thimble, formed as illustrated in Figure 2, is inserted in the neck of the container the flange 6 is rolled over the seamed upper edge portion 4 of the neck to form what is commonly referred to as a false double seam, as illustrated in Figure 1. During this operation the smooth upper portion 9 of the thimble is forced outwardly into intimate contact with the corresponding smooth portion of the neck. This, with the rolled over flange 6 of the thimble, forms a double seal which absolutely prevents seepage of oil between the neck and closure member, whatever position the container may occupy.

A separate spout 10 of usual form is provided which screws into the thimble. This spout is provided with a suitable packing 11 for cooperation with the rolled over flange 6 of the thimble. The screw threads are preferably rolled in the thimble before it is inserted in the neck of the container but the neck and thimble can be threaded after the thimble is secured in the neck if desired. In case the container is to be used without a detachable spout, it becomes unnecessary to provide threads in the thimble.

In Figures 4 and 5 I have shown a slight modification whereby the thimble is secured in the neck by what is known in the art as a perfect double seam. In this modified construction the neck 2′ is formed at its upper edge with an outwardly directed flange 4′ upon which the flange 6′ of the thimble 5′ rests when the thimble is inserted in the neck of the container, as illustrated in Figure 4. When the parts are thus assembled, the two flanges are simultaneously rolled over to form the perfect double seam illustrated in Figure 5. In this form of the invention, also, the smooth upper portion 9′ of the thimble is forced out into intimate contact with the corresponding smooth portion of the neck.

This invention provides a closure which insures that the contents of a container provided therewith will not seep out prior to the container being put in service. Furthermore, when containers are provided with closures of this character there is no danger of unscrupulous persons replacing the contents of the containers with an inferior product. The closure is inexpensive as it is adapted to be stamped or pressed out of sheet metal. By forming the neck of the container with its interior surface smooth the thimble is adapted to be dropped into the neck and then to be permanently associated therewith in the manner previously described.

While I have shown and described the preferred embodiment of my invention, it will be understood that the invention is not limited to the exact details of the construc-

tion shown, but that it may be otherwise embodied within the scope of the appended claims.

I claim:

1. The combination with a sheet metal container provided with an outlet neck, of a sheet metal thimble in said neck forming a seal for the same, said outlet neck having the portion thereof below its upper edge smooth, and said thimble having a screw-thread formed therein for the attachment of a spout, substantially as described.

2. The combination with a sheet metal container provided with an outlet neck, of a sheet metal thimble in said neck having a smooth upper portion in intimate contact with the smooth upper portion of said neck to form a seal and having a screw thread formed in its lower portion for the attachment of a spout, substantially as described.

3. The combination with a sheet metal container provided with an outlet neck, of a sheet metal thimble having a smooth upper portion in intimate contact with the smooth upper portion of said neck and having a screw thread formed in its lower portion for the attachment of a spout, said neck and thimble having their upper edge portions rolled over to form a double seam, substantially as described.

4. A container having a neck projecting outside the container proper and terminating in an opening, and a thimble fitting into the neck and adapted to be permanently secured to the container adjacent the opening and so seal the container, the thimble being interiorly threaded to receive and hold a threaded member fitted into the neck, the thimble being made of a material which may be easily perforated to permit egress of material from the container and the neck acting as an exterior protector for those portions of the thimble in which the thread is formed.

In testimony whereof I have hereunto set my hand.

ALBERT A. MILLER.