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F. A. PRAHL ET AL

1,907,364

KEY ATTACHMENT FOR CONTAINERS

Filed Dec. 5, 1930

FIG. 1.

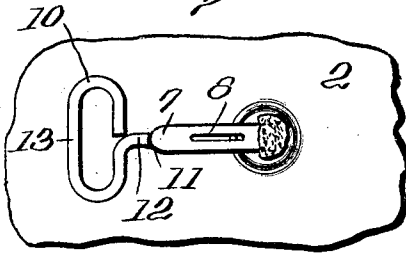
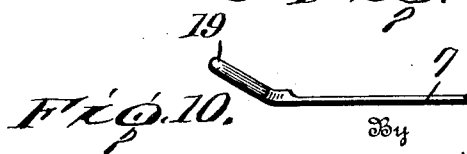
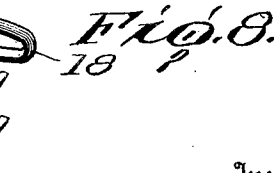
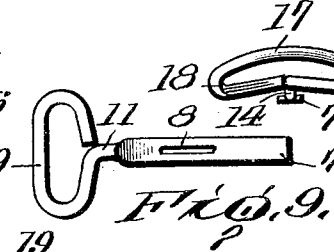
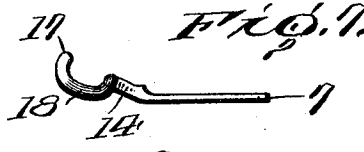
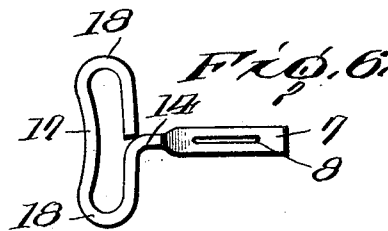
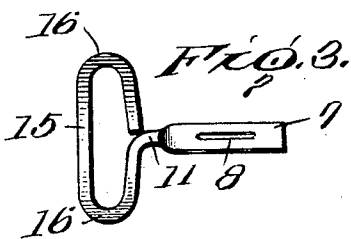
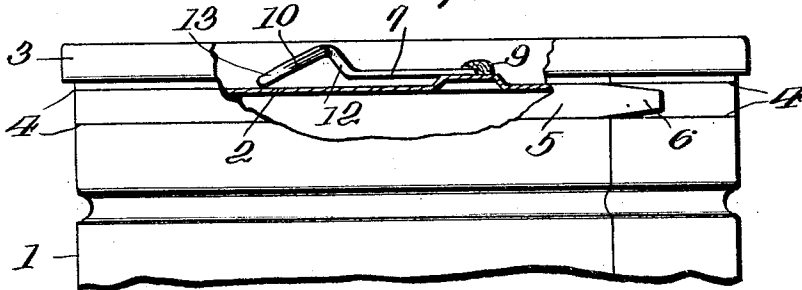


FIG. 2.



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KEY ATTACHMENT FOR CONTAINERS

Application filed December 5, 1930. Serial No. 500,365.

The invention relates to new and useful improvements in easy opening containers, and more particularly to a container of the rip strip type wherein the strip is wound on to a key, and thus the metal severed or releasing the end from the body of the container. In this type of container it is a common expedient to secure the key to the container end by soldering or welding, and when it is desired to use the key it is torn loose from the end either by a rupture of the solder or the rupture of the metal of the key itself.

An object of the invention is to provide a key which is so shaped that when it is attached to the end the shank portion may lie adjacent to and substantially parallel with the end, while parts of the handle portion are spaced away from the end to permit the fingers to be inserted beneath the handle portion for lifting the key to rupture its connection to the end.

In the drawing:—

Figure 1 is a plan view of a key embodying the invention with a section of the end to which it is attached.

Figure 2 is a side view of the key and showing a portion of the end of a rip strip container sectioned to show the key attached thereto.

Figure 3 is a plan view of a key embodying a slightly modified form of construction.

Figure 4 is a side view of the same.

Figure 5 is an end view of the key.

Figure 6 is a plan view of a key embodying a further modified form of shaping the key.

Figure 7 is a side view of the same.

Figure 8 is an end view of a key embodying a still further modified form of shaping;

Figure 9 is a plan view of the same; and

Figure 10 is a side view of the same.

The invention is directed to a key attachment for an easy opening container of the rip strip type. The key is fixedly secured to the container end either by soldering or welding, and when it is desired to use the key for removing, the rip strip is torn loose from the end. When the key is attached to the container end the shank of the key is substantially parallel with the end. If the handle lies in the plane of the shank it is difficult

to insert the fingers beneath the handle for lifting the key, as the key when attached lies close to the end so as to be housed within the depression formed in the end to facilitate double seaming. The present invention is directed to a shaping of the key so that the handle portion or parts thereof may be spaced away from the end while the shank is adjacent to and substantially parallel with the end. This provides a ready means for the insertion of the fingers beneath the handle for lifting the key to rupture its connection to the end.

Referring more in detail to the drawing, in Figure 2 a portion of a container is shown which consists of the body 1 to which an end 2 is attached by means of a double seam 3. This body portion is scored along the lines 4, 4 to form a rip strip 5, and the rip strip is provided with a projecting tongue 6 onto which a key is slipped so that the strip may be wound onto the key, and thus forcibly torn from the body of the container. The invention is directed to the shaping of the key. As shown in Figures 1 and 2 the key includes a shank portion 7 which is provided with a slot 8 extending lengthwise of the shank portion, and the tongue 6 is inserted in this slot when the key is used for winding the rip strip thereon. The key as shown is attached to the end by soldering the same at 9 to a raised portion on the end. Instead of soldering the key to the end it may be welded thereto or secured in any way so that it is fixedly attached to the end and becomes a part of the container unit when shipped. The attaching means or the key itself adjacent the attaching means is so constructed that it may be ruptured when the key is forcibly lifted at the outer end thereof and moved away from the container. This has been accomplished by using a solder bond which can be ruptured, and it has also been accomplished by scoring the key at a point adjacent the welding so that the shank of the key itself may be ruptured. Other ways may be utilized for fixedly attaching the key so that when it is lifted it may be torn loose from the end. The key is bent into a loop shaped handle 10 as shown in the drawing.

The portion of the shank beginning at the point 11 is bent upwardly at 12. This upwardly inclined portion of the shank is substantially beneath the plane of the outer edge of the double seam so that the key is practically housed within the recess made in the end to facilitate double seaming. The handle portion 10 is bent downwardly so that the outer bar 13 makes contact with the face of the can end. This aids in the positioning of the key for the initial securing of the same to the cover and it also prevents pressure applied to the key handle from straining the solder bond and breaking the same. By this construction of key the fingers may be readily inserted beneath the raised portion of the handle and the shank, and thus a firm grip obtained on the key for lifting the same away from the end and thus rupturing the solder bond or the key adjacent the bond. In Figures 3, 4 and 5 the shank 7 of the key is constructed precisely as in Figures 1 and 2, and the key is attached to the end in the same way. In this form of the key the shank all the way to the handle lies in a single plane. The handle indicated at 15 is made in loop form and the ends 16, 16 are raised, and this is accomplished by curving the bars of the handle upwardly from the center portion thereof toward the outer ends as shown in Figure 5. The fingers may be readily inserted beneath these ends of the handle for a firm grip on the key for lifting the same.

In Figures 6, 7, and 8 the shank 7 of the key is constructed in the same manner as in Figures 1 and 2. The shank 14 inclines upwardly as in Figure 2, and the handle portion lies substantially in an inclined plane containing this inclined shank 14. The handle portion 17 is made in loop form and the ends 18, 18 are placed closer to the end than the central portion of the handle. This is done by arching the outer bar of the handle member as shown in Figure 8. By this arrangement the finger may be readily inserted beneath the arched portion of the handle and a firm grip obtained on the handle for raising the key. In Figures 9 and 10 the shank 7 is constructed precisely as in Figures 1 and 2. The handle is made in loop form as indicated at 19, and the bars of the handle lie in the same plane as the inclined shank portion 11. This enables the finger to be readily inserted beneath the handle for lifting the same.

From the above it will be apparent that we have provided a construction of key whereby it may be attached to a can end by soldering or welding so that the shank of the key is adjacent and substantially parallel with the end. The key handle, however, has parts thereof shaped so that they are spaced from the end to permit the insertion of the fingers for lifting the key to rupture its attachment to the end. In the attaching of the key to

the end no particular position of the key relative to the end is necessary, except that the end of the shank which is to be secured to the end must be placed at the desired point for attachment. No construction of the end is necessary other than the usual depression formed in the end for facilitating double seaming. The key lies in this depression and is substantially housed therein and thus protected, and at the same time it may be readily grasped and lifted, and the attaching means ruptured so that the key may be used for opening the container.

Having thus described the invention, what we claim as new and desire to secure by Letters Patent, is:—

The combination of a hermetically sealed container having a rip strip whereby the container may be opened and a container end hermetically secured to the container adjacent said rip strip, and a key for said rip strip fixedly secured by a solder bond to the container end, said end in the region of the free end of the key being free from depressions, said key having the shank portion thereof disposed adjacent to and substantially parallel with said container end and having parts thereof adjacent the free end of the key bent away from the container end and spaced therefrom so that the fingers may be inserted beneath said bent portions for lifting the key to rupture its connections to the end.

In testimony whereof, we affix our signatures.

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FRANK J. O'BRIEN.