Oct. 9, 1945. J. A. WYNN 2,386,284

CANTEEN CUP

Filed June 13, 1944 2 Sheets-Sheet 1

Fig. 1

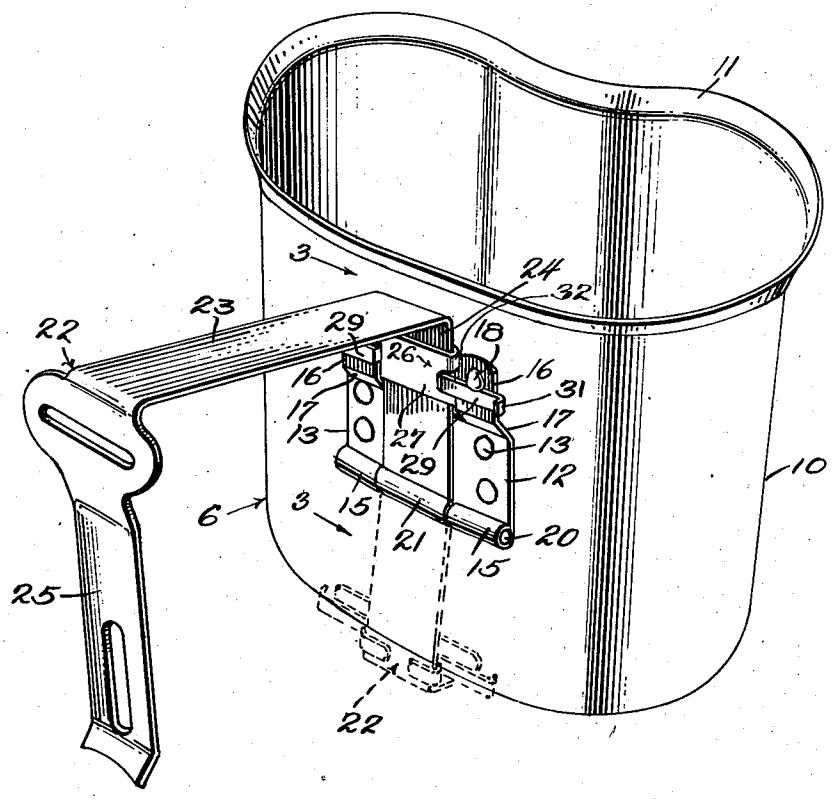
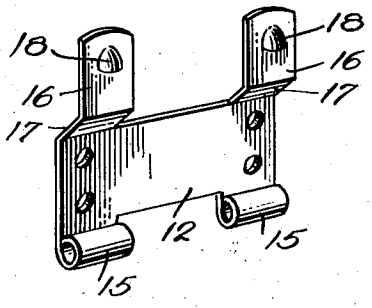


Fig. 2

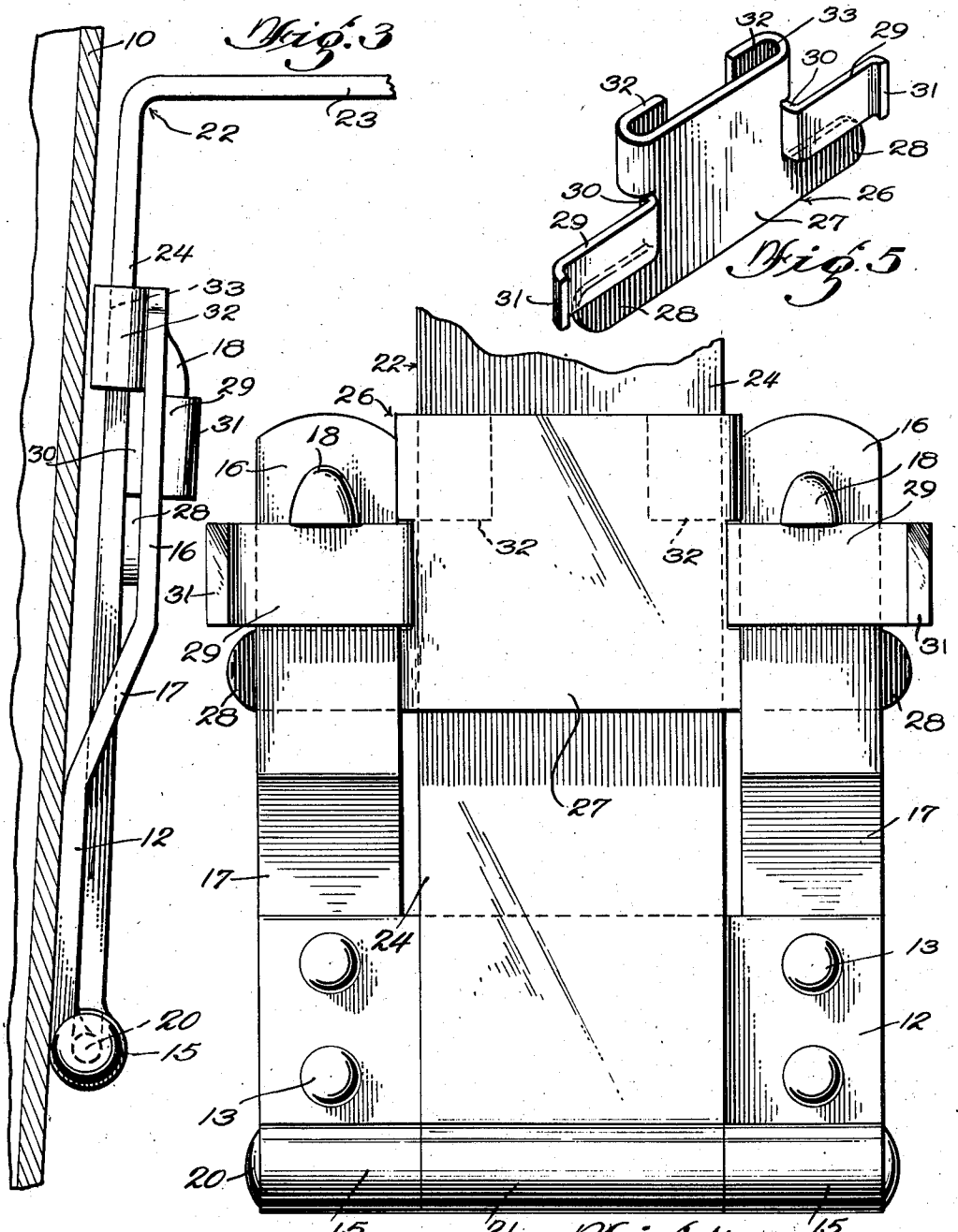


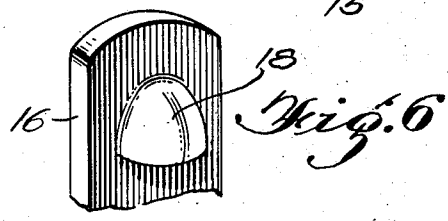
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CANTEEN CUP

Filed June 13, 1944 2 Sheets-Sheet 2





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UNITED STATES PATENT OFFICE

2,386,284

CANTEEN CUP

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13 Claims. (Cl. 16—126)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

The invention described herein, if patented, may be manufactured and used by or for the Government for governmental purposes, without the payment to me of any royalty thereon.

This invention relates to canteen cups or containers having hinged handles, and more particularly to an improved lock for securing the cup handle in rigid supporting relation to the cup.

The conventional canteen cup or container has a U-shaped handle which is hingedly secured to the cup, and when the handle is not in use as such it is moved to close nested relation about the cup, with the components of the handle disposed substantially parallel with the bottom and sides of the cup. When the handle is extended for use, it is locked in its extended or handle-forming position by a locking member which is slidably mounted on the handle and adapted to cooperatively engage a locking member carried by the cup to thereby lock the extended handle rigidly to the cup. The locking components are adapted to be held in their locking relation by frictional engagement of these components. After use over a period of time, the components become worn or bent, and then they loosely engage each other so that they move from locking engagement and permit the handle to move relative to the cup, thus defeating the intended purposes of the device.

It is an object of this invention to provide an improved canteen cup or container handle locking device in which the locking components are positively held in locking relation.

Another object of this invention is to provide an improved lock for rigidly locking a canteen cup handle to the cup, the locking components being constructed and arranged so that one component bodily engages another component in locking relation to thereby interlock the components against unlocking movement.

A specific object of this invention is to provide an improved lock for rigidly locking a canteen cup handle to the cup with the handle in its extended or handle-forming position, certain of the components of the lock being movable relative to other components and having detents to lockingly engage the other components to thereby positively retain the locking components in locking relation.

It is also an object of this invention to provide a canteen cup handle lock of generally improved construction, whereby the device will be simple, durable and inexpensive in construction, as well as convenient, practical, serviceable and efficient in its use.

With the foregoing and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and details of construction hereinafter described and claimed, it being understood that various changes in form, proportion and minor details of construction may be made within the scope of the claims without departing from the spirit or sacrificing any advantages of the invention.

For a complete disclosure of the invention, a detailed description thereof will now be given in connection with the accompanying drawings forming part of the specification, wherein:

Figure 1 is a perspective view of a conventional canteen cup, showing my improved handle lock applied thereto;

Figure 2 is a perspective view of the improved hinge plate or keeper;

Figure 3 is an enlarged fragmentary vertical sectional view taken on the line 3—3 of Figure 1;

Figure 4 is an enlarged fragmentary elevational view of the improved handle lock and cooperating components, the view being seen in the direction indicated by the arrow 6 in Figure 1;

Figure 5 is a perspective view of the improved slidable lock; and

Figure 6 is a fragmentary perspective view depicting one of the detent protuberances.

Referring to the drawings, in which corresponding parts are indicated by similar reference characters, there is depicted a conventional canteen cup or container 10 having an open top, surrounded by a beaded flange 11, and the usual closed bottom. A locking member or component is provided, and this member comprises a hinge plate or keeper 12 which is secured to the convex side of the cup 10 by means of rivets 13, or other suitable securing devices. The hinge plate 12 has spaced eyes 15 formed at its lower terminal, and the upper portion of the hinge plate has spaced ears 16 extending upwardly therefrom. The ears 16 are offset, as indicated at 17, in order to space them from the side wall of the cup 10 and to dispose the ears in parellel relation to the cup surface. A detent or protuberance 18 extends outwardly from the outer face of each ear 16, and each protuberance 18 is preferably formed by stamping or pressing a small portion of the ear outwardly, as indicated.

A hinged-pin or pintle 20 is received within the aligned eyes 15 and also within an eye 21 formed at the lower inner terminal of a U-shaped canteen cup handle 22 of conventional construction. The handle 22 has an intermediate portion

23, an inner leg 24 and an outer leg 25, the legs 24 and 25 being disposed in substantially perpendicular relation to the intermediate portion 23.

A sliding locking member or component 26 is provided, and this member includes a body plate 27 which has fingers 28 extending outwardly from its opposed terminals. Tongues 29 extend outwardly from the body plate 27, and these tongues are preferably flexible and are located immediately adjacent the fingers 28 but are offset outwardly therefrom, as indicated at 30, so that they are disposed in a plane which is spaced with relation to the body plate 27. The outer terminal of each tongue 29 is outwardly turned, as indicated at 31, to provide a manipulating terminal, for reasons to be explained hereinafter. Flanges 32 extend inwardly towards each other from the upper terminal of the body plate 27, and these flanges are disposed in parallel relation to the body plate and spaced therefrom a distance substantially equal to the thickness of the handle leg 24.

The inner leg 24 of the handle 22 is slidably received within a recess 33 defined between a face of the plate 27 and the inner faces of the flanges 32, so that the locking member 26 is mounted for sliding movement longitudinally along the leg 24.

When the cup 10 is not in use, the U-shaped handle 22 is nested around the bottom and sides of the cup in order to occupy a minimum space. When it is desired to use the cup 10 for drinking purposes or as a food container, the handle 22 is moved about its hinge pin 20 until its inner leg 24 is disposed in substantially parallel relation to the convex side of the cup 10. In this position, the slidable lock 26 is slid outwardly along the leg 24 until the inner edges of the fingers 28 clear the upper terminal of the ears 16. Now the sliding lock 26 is slid downwardly along the handle leg 24 until the outer faces of the fingers 28 engage the inner faces of the ears 16, and the inner faces of the tongues 29 engage the outer faces of the ears 16. This downward sliding movement of the locking member 26 along the leg 24 is continued until the upper edges of the yieldable tongues 29 snap beneath the lower terminals of the protuberances or detents 18. In this position, the handle 22 is locked in rigid relationship to the cup 10, and it is retained in this relationship by the detents 18 engaging the tongues 29 of the sliding lock 26.

When it is desired to unlock the handle 22 so that it can swing freely above its hinge pin 20, the manipulating terminals 31 of the tongues 29 are grasped and moved outwardly until the upper edges of the yieldable tongues 29 clear the shouldered lower terminals of the protuberances 18. Then the sliding lock 26 is slid outwardly along the leg 24 until the tongues 29 and locking fingers 28 disengage the locking ear 16. After the locking components clear the ears 16, the handle 22 may be swung about its hinge pin 20 to its nested position around the bottom portion of the can 10, as indicated in dotted lines in Figure 1.

From the foregoing it is manifest that applicant has provided a positive, simple and convenient device for retaining the handle-locking components in locking relationship, to thus insure that the cup handle remain securely locked to the cup.

Having thus described my invention, what I claim as new and useful is:

1. In combination, a container, a handle hingedly secured to the container, a locking component fixed to the container, a locking member slidably secured to the handle and adapted to cooperatively engage the locking component to lock the handle in fixed relation to the container, and positive means for retaining the locking member in locking engagement with the locking component.

2. In combination, a container, a handle hingedly secured to the container, a locking component fixed to the container, a locking member slidably secured to the handle and adapted to cooperatively engage the locking component to lock the handle in fixed relation to the container, and positive means including a yieldable member for retaining the locking member in locking engagement with the locking component.

3. In combination, a container, a handle hingedly secured to the container, a locking component fixed to the container, a locking component slidably secured to the handle and adapted to cooperatively engage the said fixed component to lock the handle in fixed relation to the container, a detent on one of the locking components, and a member carried by the other component and adapted to engage the detent to retain the locking components in locking engagement.

4. In combination, a container, a handle hingedly secured to the container, a locking component fixed to the container, a locking component slidably secured to the handle and adapted to cooperatively engage the said fixed locking component to lock the handle in fixed relation to the container, a protuberance on one of the locking components, and a yieldable member carried by the other locking component and adapted to engage the protuberance to retain the locking components in locking engagement.

5. In combination, a container, a handle hingedly secured to the container, a locking component fixed to the container, a detent on the said fixed locking component, a locking component slidably secured to the handle, a finger carried by the said slidable locking component and adapted to cooperatively engage the fixed locking component to lock the handle in fixed relation to the container, and a tongue carried by the slidably locking component and adapted to engage the detent to retain the locking components in locking engagement.

6. In combination, a container, a handle hingedly secured to the container, a locking component fixed to the container, a protuberance on said fixed locking component, a locking component slidably secured to the handle, a finger carried by the said slidable locking component and adapted to cooperatively engage the fixed locking component to lock the handle in fixed relation to the container, and a yieldable tongue carried by the slidable locking component and adapted to engage the protuberances to retain the locking components in locking relation.

7. In combination, a container a handle hingedly secured to the container, a locking component fixed to the container, a protuberance on the said fixed locking component, a locking component slidably secured to the handle, a finger carried by the said slidable locking component and adapted to cooperatively engage the fixed locking component to lock the handle in fixed relation to the container, a yieldable tongue carried by the slidable locking component and adapted to engage the protuberance to retain the locking components in locking relation, and a manipulat-

ing portion formed at the outer terminal of the finger.

8. In combination, a container, a handle hingedly secured to the container, a locking component fixed to the container, an ear carried by the said fixed locking component and disposed in spaced relation to the container, a protuberance on the ear, a locking component slidably secured to the handle, a finger carried by the said slidable locking component and adapted to cooperatively engage a face of the ear to lock the handle in fixed relation to the container, and a yieldable tongue carried by the slidable locking component and adapted to engage the opposed face of the ear and the protuberances to retain the finger in locking engagement with the ear.

9. In combination, a container, a handle hingedly secured to the container, a locking component fixed to the container, an ear carried by the said fixed locking component and disposed in spaced relation to the container, a protuberance on the ear, a locking component slidably secured to the handle, a finger carried by the said slidable locking component and adapted to cooperatively engage a face of the ear to lock the handle in fixed relation to the container, a yieldable tongue carried by the said slidable locking component and adapted to engage the opposed face of the ear and the protuberance to retain the finger in locking engagement with the ear, and a manipulating portion formed at the outer terminal of the finger.

10. In combination, a container, a keeper fixed to the container, a handle hingedly secured to the keeper, spaced ears extending from the keeper and disposed in spaced relation to the container, a detent on each ear, a locking component slidably secured to the handle, fingers extending from the locking component and adapted to cooperatively engage the ears to lock the handle in fixed relation to the container, and tongues extending from the said locking component and adapted to engage the detents to retain the tongues in locking engagement with the ears.

11. In combination, a container, a keeper fixed to the container, a handle hingedly secured to the keeper, spaced ears extending from the keeper and disposed in spaced relation to the container, a protuberance on each ear, a locking component slidably secured to the handle, fingers extending from the locking component and adapted to cooperatively engage the ears to lock the handle in fixed relation to the container, and yieldable tongues extending from the locking component and adapted to engage the protuberances to retain the tongues in locking engagement with the ears.

12. In combination, a container, a handle permanently hinged to the container and adapted to be swung to operative and inoperative positions, realtively movable locking components on the handle and container for releasably securing the handle in operative position, and positive means for releasably retaining the locking components in their operative relation.

13. In combination, a container, a handle permanently hinged to the container and adapted to be swung to operative and inoperative positions, relatively movable locking components on the handle and container for releasably securing the handle in operative position, and a cooperating tongue and detent on the locking components for releasably retaining said components in their operative relation.

JOHN A. WYNN.