Jan. 6, 1925. 1,521,782

C. MEIER

MILK PAIL SUPPORT

Filed June 10, 1924

Fig. 1

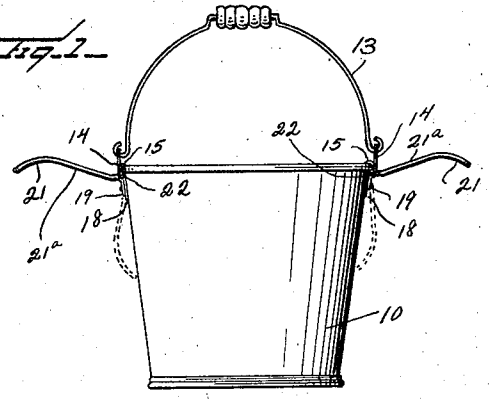



Fig. 5

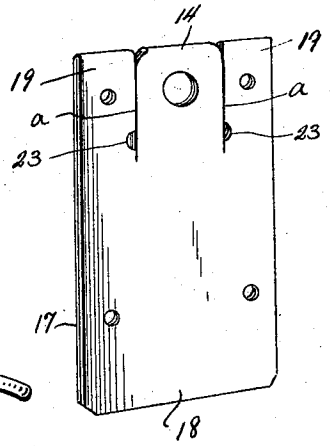



Fig. 3

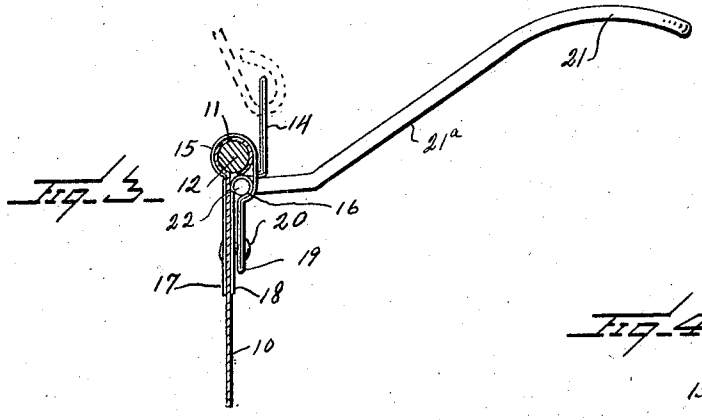



Fig. 4

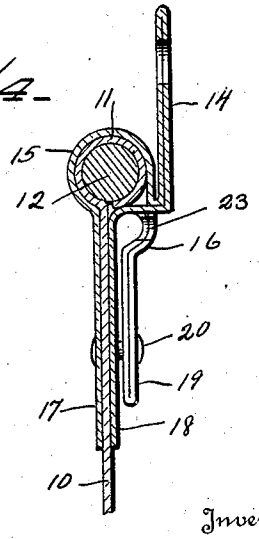
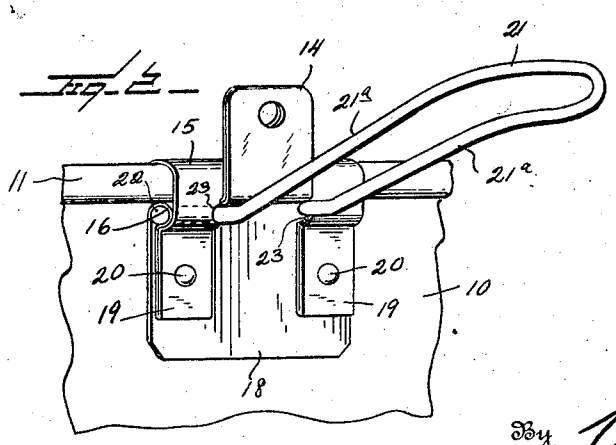



Fig. 2




Inventor

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Patented Jan. 6, 1925. 1,521,782

# UNITED STATES PATENT OFFICE.

CHARLES MEIER, OF HAVERHILL, IOWA.

## MILK-PAIL SUPPORT.

Application filed June 10, 1924. Serial No. 719,181.

*To all whom it may concern:*

Be it known that I, CHARLES MEIER, a citizen of the United States, residing at Haverhill, in the county of Marshall and State of Iowa, have invented certain new and useful Improvements in Milk-Pail Supports, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to milk pail supports such as are used for supporting a milk pail upon the knees of the milker.

The general object of the invention is to provide a support of this character which is very rigidly connected to the pail at the rim bead thereof, which is so constructed that it can be shifted into a vertical, depending position and out of the way when the milk pail is being carried but also may be shifted up to a horizontal or supporting position when desired.

A further object is to provide means whereby the supporting ears may be detachably locked in their horizontal or supporting position.

A still further object is to provide a device of this character in which the body of the support is formed of a single sheet of metal doubled to secure proper strength and to embrace the pail.

My invention is illustrated in the acompanying drawings, wherein:—

Figure 1 is a side elevation of a pail having my improved supports attached thereto;

Figure 2 is a perspective view of a portion of the pail with the support turned up to its horizontal position;

Figure 3 is a vertical sectional view through the upper portion of a pail showing the support turned to an approximately horizontal or supporting position;

Figure 4 is an enlarged sectional view through the pail embracing clip, the support not being shown;

Figure 5 is a perspective view of the folded blank from which the clip is made.

Referring to these drawings, 10 designates the body portion of a milk pail which terminates at its rim in a bead 11 having therein the usual reinforcing wire 12. A bail 13 is, of course, used in connection with the pail, as will be later stated.

Disposed at opposite points on the rim of the pail are the ears whereby the bail may be connected to the pail and, as shown in Figure 5, the body portion of this bail connecting device consists of a single sheet of metal which is folded upon itself so as to form a blank. This blank is slotted, as at *a*, (see Figure 5) and from the slotted blank thus formed that portion between the slots *a* is turned upward to form the ear 14 which is perforated for engagement with hooks of the handle or bail 13. This ear 14, it will be seen, is formed of two thicknesses of metal. One of the two thicknesses of metal is curved to form a relatively large bead 15 and the other thickness is curved to form a relatively small bead 16, the large bead being adapted to engage the rim bead 11 of the pail. One thickness of metal extends down on the inside of the pail, as at 17, and the other thickness of metal extends downward from the bead 16, as at 18, upon the outside face of the pail so that the metal of the pail is embraced between these two thicknesses of metal. The ears 19 which are formed by the slots *a* and which are of two thicknesses of metal extend downward upon the exterior face of the thickness 18, and rivets 20 pass through the ears 19, through the plate or thickness of metal 18, through the pail, and through the inner ply or thickness 17.

The bead 16, forms a bearing for the two angularly bent ends of the supporting members 21. These members are formed of a length of heavy wire bent in an approximate U-shape, the extremities of the wire being angularly bent, as at 22, to extend through the bead 16. This wire is somewhat resilient and these supporting members 21 are preferably concavely curved upon their under faces and may be of any desired length. It will be seen that the members are pivotally supported so that they may be shifted into an approximately vertical position against the side of the pail or into a horizontal position, and that when in a horizontal position the arms will bear against the middle of the bead 15 and against the lower margin, as it may be termed, of the bail ear 14.

It will be seen that the slots *a* at their upper ends, which slots define the inner margins of the beads 16, are notched at 23 and that the two arms of the U-shaped support 21 spring into these recesses 23 or notches, as shown in Figure 2, when the supports 21 are raised to their horizontal positions and that considerable force must

be exerted to move the supports 21 downward and that this can only be accomplished by pressing inward on the two arms, which are resiliently urged outward because of the resilience of the material so as to carry these two arms 21[a] out of their engagement with the notches. Then the supports may be turned downward. Thus when the arms are up, the supports are locked in their raised position. This construction also permits these supports 21 to be removed entirely whenever desired or if desired.

It will be seen that these notches act to hold the supports 21 in their horizontal position and take the strain placed upon the supports, and that this is also accomplished by the engagement of the supports with the inturned lower portion of the ear 14. It will be further noted that the strain on the members 21 is borne by a clip formed of practically three thicknesses of metal which embraces the side of the pail.

The construction which I have described is very simple, can be cheaply made, is very strong when applied, and is extremely convenient. Inasmuch as the supporting members 21 are detachable, it is obvious that the pail may be used without the supporting members and that the supporting members are applied whenever it is desired to do so or the supporting members may be turned into a vertical position and then turned into a horizontal position when it is desired to use it.

I claim:—

1. A supporting device for pails comprising a clip adapted to embrace the edge of a pail, said clip being formed of a plurality of thicknesses of sheet metal having an upwardly extending, medially disposed ear adapted to engage with the bail of the pail, and a pair of laterally disposed, downwardly extending ears, having beads above said ears, and a supporting member consisting of a stiff wire, approximately U-shaped to provide approximately parallel arms, the extremities of the arms being angularly extending and pivotally engaged in said beads, the clip being so formed as to permit the arms to be turned from a vertical to a horizontal position but preventing further upward movement of the arms.

2. A supporting device for pails comprising a clip adapted to embrace the side of the pail and formed of a plurality of thicknesses of metal, the face of the clip being longitudinally slotted to define an ear, the ear being extended upward and adapted to receive the hook of a supporting bail, the clip at its upper end having an upper bead embracing the rim of the pail and a pair of beads below the first named bead, and a supporting member consisting of a strip of wire U-shaped to provide approximately parallel arms, the extremities of the arms being angularly extended laterally outward and engaged with said last named beads, said last named beads on their inner edges having notches within which the arms of the supporting member are adapted to engage when the supporting member is turned into a horizontal position, the resilience of the supporting member causing the arms to spring laterally outward and into said notches.

3. A supporting device for pails including a strip of metal, the strip having a pair of longitudinally extending slots at one end to provide a medially disposed, upwardly extending ear perforated for engagement with a pail bail, the slots also defining a pair of downwardly extending ears, said ears and the body of the clip having at their upper ends an upper bead and a pair of laterally spaced lower beads, the upper bead being larger than the lower bead and embracing the rim of the pail, the body of the clip and said downwardly extending ears being perforated for the passage of rivets, and a supporting member consisting of a strip of resilient metal U-shaped to provide two approximately parallel arms, the resilience of the arms urging them laterally outward, the extremities of the arms being extended laterally and inserted in said lower beads, the inner margins of the lower beads having notches in which the arms are adapted to spring when the arms are turned to a horizontal position, thus limiting the upward movement of the arms and locking them from downward movement.

4. The combination with a pail having a bail and a rim, of supporting means for the pail consisting of clips applied to opposite points of the margin of the pail and engaging beneath the rim thereof, each of said clips having upwardly extending, medially disposed ears, a bail having hooks engaging said ears, the clip having laterally spaced beads, and a supporting member having two approximately parallel arms, the extremities of the arms arranged to extend into said said beads and the arms being resiliently urged away from each other, the inner margins of the beads having notches in which said arms will engage and lock when the supporting members are turned to a horizontal position, the base of each medially disposed ear acting as a stop limiting the upward movement of the supporting members.

In testimony whereof I hereunto affix my signature.

CHARLES MEIER.