March 26, 1957 C. M. CAMPBELL 2,786,707

DETACHABLE HANDLES FOR CONTAINERS

Filed Sept. 30, 1954

Fig 1

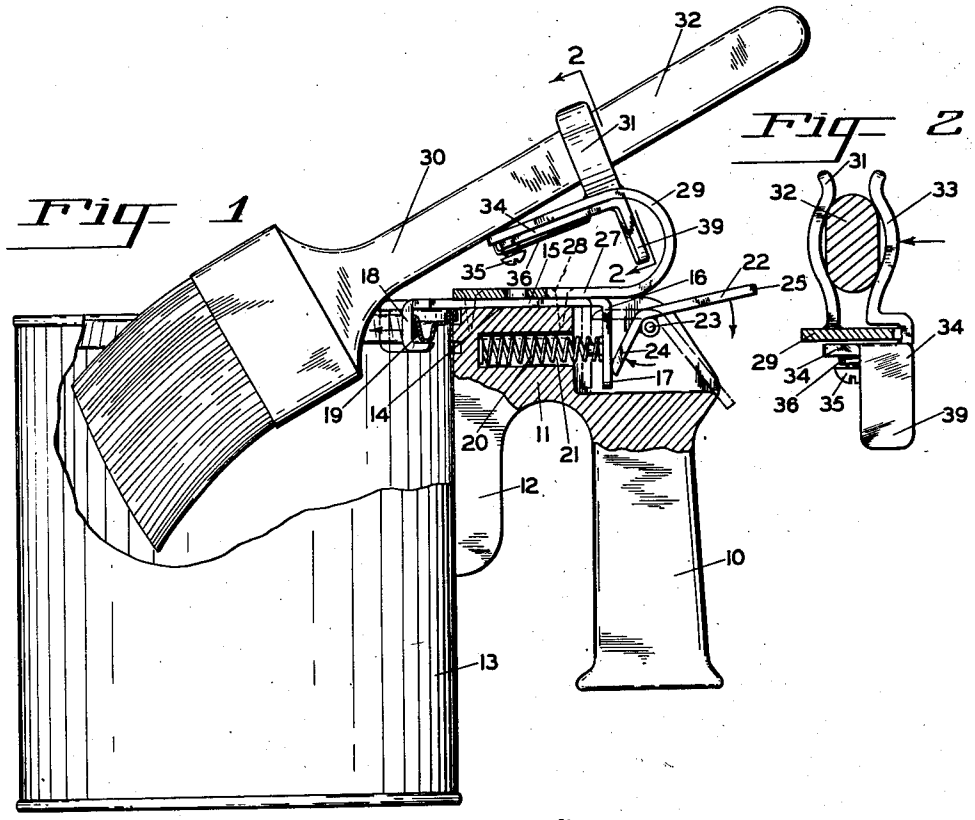


Fig 2

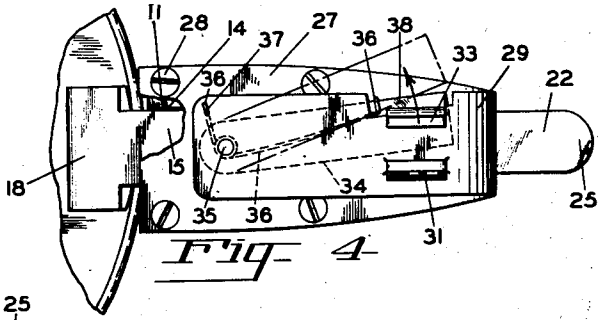


Fig 4

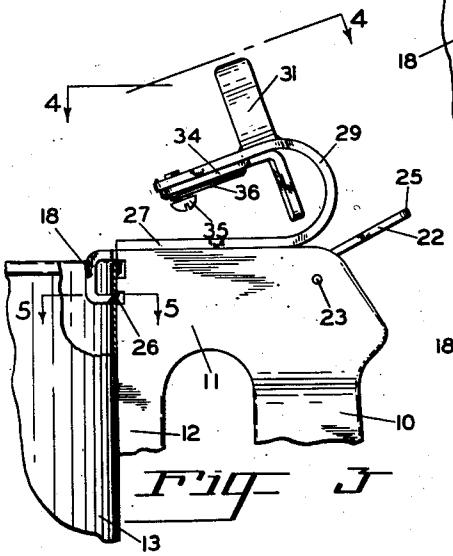


Fig 3

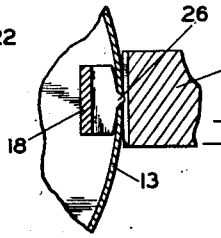


Fig 5

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United States Patent Office

2,786,707

Patented Mar. 26, 1957

2,786,707

DETACHABLE HANDLES FOR CONTAINERS

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Application September 30, 1954, Serial No. 459,298

6 Claims. (Cl. 294—34)

This invention relates to detachable handles for containers, and is particularly related to the handling of paint pails and the like.

The primary object of the invention is to design a detachable handle that can be attached to paint pails, and that will hold the brush over the pail while not in use.

Means are associated with the handle for gripping the upper rim of the pail tightly, holding the same until the operator disconnects the same from the pail by releasing the locking or holding mechanism.

These and other incidental objects will be apparent in the drawings, specification and claims.

Referring to the drawings:

Figure 1 is a side view of a paint pail, having my new and improved detachable handle mounted thereon, parts broken away for convenience of illustration.

Figure 2 is a sectional detail view of the paint brush holder, taken on line 2—2 of Figure 1.

Figure 3 is a fragmentary view, illustrating the handle being secured to the upper edge of a pail, having no inner lid receiving shoulder forming part thereof.

Figure 4 is an enlarged plan detail view, taken on line 4—4 of Figure 3.

Figure 5 is a sectional fragmentary view, taken on line 5—5 of Figure 3.

Referring more specifically to the drawings:

My new and improved detachable handle consists of a handle 10, forming part of the body portion 11. Forming part of the body member 11 is a foot 12. This foot is adapted to engage the outside of the pail 13, as best illustrated in Figure 1, extending approximately parallel to the handle 10.

Slidably mounted within a groove 14 on the upper side of the body member 11, is a bar or bolt 15. This bar or bolt is bent down at right angles to itself at 16, forming a perpendicular arm 17 to the said bolt at its one end, and is formed into a goose-neck 18 at its opposite end. The goose-neck 18 is adapted to embrace the pail lid receiving rim 19 of the pail, as best illustrated in Figure 1.

A spring 20 is nested in the well 21 formed within the body member 11 of the handle, its outer end engaging the arm 17 of the bolt 15. This spring pushes the goose-neck 18 tightly against the rim 19 of the pail, pulling the foot 12 of the handle tightly against the outer surface of the pail.

A bell crank shaped lever 22 is pivotally mounted within the body portion of the handle at 23. One end of the lever 24 engages the arm 17 of the bolt 15, and is adapted to force the same to the broken line position in Figure 1 when the thumb of the operator pulls down on the end 25 of the lever 22. The end 24 of the lever passes slightly beyond center as indicated by broken lines, holding the goose-neck 18 away from the rim 19 of the pail, while removing the handle from the same or placing the handle on to the pail.

In order to engage the goose-neck tightly to the rim,

the operator pushes up on the end 25 of the lever, permitting the end 24 of the lever to pass center and allowing the spring 20 to engage the goose-neck with the rim of the pail.

Referring to Figures 3 and 5, when the handle is used on a pail having no inner rim, but having a smooth side wall, the sharp point 26 forming part of the goose-neck 18 will engage the inside of the pail punching its way therethrough and holding the handle to the pail tightly by this form of connection between the goose-neck and the side of the pail.

The bar or bolt 15 is held within its working groove 14 by the cover plate 27, which is held to the body of the handle 11 by the screws 28. This cover plate has a goose-neck shaped member 29 forming part thereof and is adapted to support the paint brush 30 in the following manner.

A finger 31 extends upwardly from the goose-neck portion 29 and forms part thereof. This finger is adapted to embrace the handle 32 of the brush 30. A second finger 33 forms part of the lever 34, which is pivotally connected to the goose-neck 29 by the screw 35. The lever 34 is adapted to be held in the position shown in Figures 1, 2, 3 and 4 by the action of the spring 36, which has one end anchored at 37 to the goose-neck member 29, and its opposite end against the edge 38 of the lever 34. The lever 34 extends downwardly at 39 so that the operator's thumb can move the said lever to the broken line position in Figure 4.

I will now describe how my new and improved detachable handle for pails is applied to the paint pail. The lever 25 is pulled down to the broken line position, as illustrated in Figure 1, the goose-neck 18 embraces the lid holding rim 19. The operator then pushes up on the lever 25, which allows the spring 20 to force the arm 17 to the right, as viewed in Figure 1, pulling the goose-neck 18 underneath the rim 19.

In placing the paint brush within its holder, the operator engages the lever 34 by his thumb at 39, forcing the same to the broken line position, as indicated in Figure 4, which moves the finger 33 in the direction of the arrow so that the handle 32 of the brush 30 can be placed against the finger 31, after which the lever 34 is released allowing the spring 36 to force the finger 33 against the opposite side of the handle 32, gripping the same between the fingers 31 and 33.

In the case of the form of pail shown in Figure 3, the point 18 would enter the side of the pail, forming a hole therein and holding the handle to the said pail by the action of the spring 20 pushing the goose-neck 18 against the inner surface of the pail.

I claim:

1. In a detachable handle for containers, a handle member, a container abutting foot formed integrally with and laterally spaced from said handle, said handle and said foot having a longitudinally extending continuous channel formed in one of their respective adjacent ends, a slide mounted for reciprocation in said channel, a substantially C-shaped clamping jaw at one end of said slide, an arm at the other end of said slide, said arm being perpendicular to the longitudinal axis of said slide and extending over said handle, and spring means mounted on said handle and engaging the perpendicular portion thereof to constantly bias said slide for movement towards said handle member.

2. In a detachable handle for containers, a handle member, a container abutting foot formed integrally with said handle, said handle being provided with a channel in the top thereof, a slide having a pair of opposed ends, a perpendicular arm formed integrally on one of said ends of said slide, the other of said ends being reverted to form a substantially C-shaped clamping jaw, said slide

being disposed in said channel with said clamping jaw being disposed in confronting relation to and adjacent said container abutting foot portion, and spring means constantly biasing said slide for movement of said clamping jaw toward said foot abutting portion.

3. In a detachable handle for containers, a handle member, a container abutting foot formed integrally with said handle, said handle being provided with a channel in the top thereof, a slide having a pair of opposed ends, a perpendicular arm formed integrally on one of said ends of said slide, the other of said ends being reverted to form a substantially C-shaped clamping jaw, said slide being disposed in said channel with said clamping jaw being disposed in confronting relation to and adjacent said container abutting foot portion, spring means constantly biasing said slide for movement of said clamping jaw toward said foot abutting portion, and a latch member pivotally mounted on said handle, said latch member engaging said perpendicular arm of said slide to effect movement of said clamping jaw relative to said container abutting foot.

4. In a detachable handle for containers, a handle member, a container abutting foot formed integrally with said handle, said handle being provided with a channel in the top thereof, a slide having a pair of opposed ends, a perpendicular arm formed integrally on one of said ends of said slide, the other of said ends being reverted to form a substantially C-shaped clamping jaw, said slide being disposed in said channel with said clamping jaw being disposed in confronting relation to and adjacent said container abutting foot portion, spring means constantly biasing said slide for movement of said clamping jaw toward said foot abutting portion, a latch member pivotally mounted on said handle, said latch member engaging said perpendicular arm of said slide to effect movement of said clamping jaw relative to said container abutting foot, and a cover plate fixedly secured to said handle and covering said channel, said cover plate holding said slide in said channel.

5. In a detachable handle for containers, a handle member, a container abutting foot formed integrally with said handle, said handle being provided with a channel in the top thereof, a slide having a pair of opposed ends, a perpendicular arm formed integrally on one of said ends of said slide, the other of said ends being reverted to form a substantially C-shaped clamping jaw, said slide being disposed in said channel with said clamping jaw being disposed in confronting relation to and adjacent said container abutting foot portion, spring means constantly biasing said slide for movement of said clamping jaw toward said foot abutting portion,

a latch member pivotally mounted on said handle, said latch member engaging said perpendicular arm of said slide to effect movement of said clamping jaw relative to said container abutting foot, a cover plate fixedly secured to said handle and covering said channel, said cover plate holding said slide in said channel, and said cover plate having an upwardly extending support bracket formed integrally therewith, and a pair of brush engaging clips carried by said support bracket, one of said clips being pivotally mounted for movement relative to the other of said clips to effect clamping or releasing of a brush between said clips.

6. In a detachable handle for containers, a handle member, a container abutting foot formed integrally with said handle, said handle being provided with a channel in the top thereof, a slide having a pair of opposed ends, a perpendicular arm formed integrally on one of said ends of said slide, the other of said ends being reverted to form a substantially C-shaped clamping jaw, said slide being disposed in said channel with said clamping jaw being disposed in confronting relation to and adjacent said container abutting foot portion, spring means constantly biasing said slide for movement of said clamping jaw toward said foot abutting portion, a latch member pivotally mounted on said handle, said latch member engaging said perpendicular arm of said slide to effect movement of said clamping jaw relative to said container abutting foot, a cover plate fixedly secured to said handle and covering said channel, said cover plate holding said slide in said channel, said cover plate having an upwardly extending support bracket formed integrally therewith, a pair of brush engaging clips carried by said support bracket, one of said clips being pivotally mounted for movement relative to the other of said clips to effect clamping or releasing of a brush between said clips, and spring means mounted on said handle, said spring means tending to constantly bias said one clip for movement toward said other clip.

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