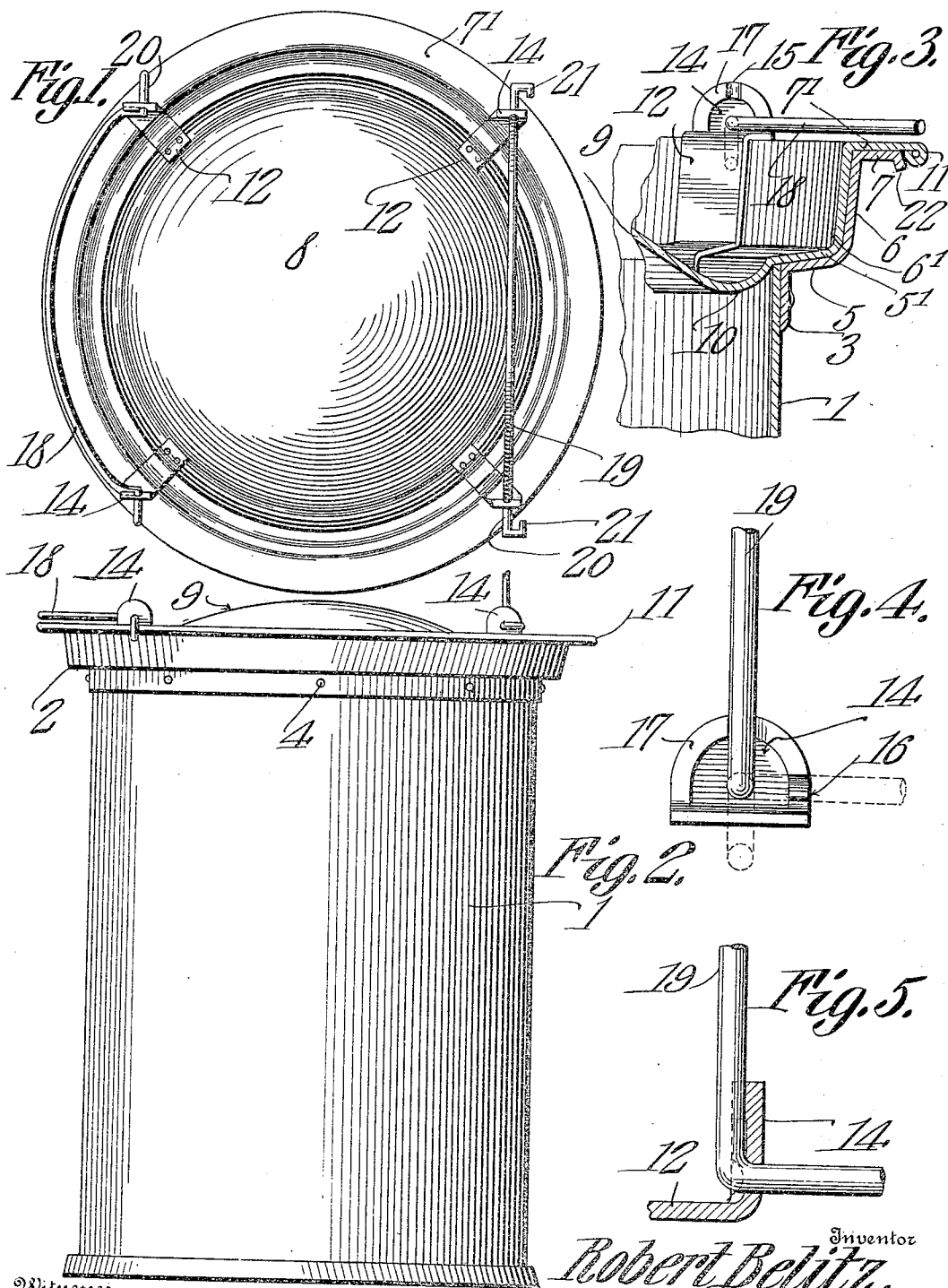


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MILK CAN, TOP RIM, COVER, AND LOCK.
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UNITED STATES PATENT OFFICE.

ROBERT BELITZ, OF CLEVELAND, WISCONSIN.

MILK-CAN, TOP-RIM, COVER, AND LOCK.

956,511.

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To all whom it may concern:

Be it known that I, ROBERT BELITZ, a citizen of the United States, residing at Cleveland, in the county of Manitowoc and State of Wisconsin, have invented a new and useful Milk-Can, Top-Rim, Cover, and Lock, of which the following is a specification.

It is the object of this invention to provide a rim adapted to be mounted upon a can, and a cover adapted to rest upon the rim, the rim and the cover being so constructed that leakage from the can will be prevented, the cover and the rim cooperating in such a manner, to effect the closure of the can, that the attrition and consequent wear upon the cover and the rim will be reduced to a minimum.

Another object of the invention is so to fashion the cover that leakage from the can will be prevented when the contents of the can wash about within the can.

Another object is to provide a novel means for locking the cover upon the can.

With these and other objects in view, the invention consists in the novel construction and arrangement of parts hereinafter described, delineated in the accompanying drawings, and specifically claimed, it being understood, that, since the drawings show but one form of the invention, changes, properly falling within the scope of what is claimed, may be made, without departing from the spirit of the invention.

Similar numerals of reference are employed to denote corresponding parts throughout the several figures of the drawings, wherein:

Figure 1 shows my invention in top plan; Fig. 2 is a side elevation thereof; Fig. 3 is a fragmental transverse section; Fig. 4 is a side elevation of one of the lugs, a portion of one of the bails being shown in elevation; and Fig. 5 is a transverse section of one of the lugs, the bail being shown, partially, in elevation.

In carrying out the invention, there is provided a can 1, which may be of any desired form. Mounted upon the can 1 at its upper edge, is a rim, denoted generally by the numeral 2. This rim 2 comprises an annular portion 3 which is adapted to be assembled with the side-walls of the can in any suitable manner; in the present instance, rivets 4 are shown. The annular portion 3 of the rim 2 is outwardly bent, and upwardly inclined to a slight degree, to form

a shoulder 5, which, at its periphery, is upwardly bent and outwardly inclined, to form a flange 6, the periphery of the flange 6 being outwardly bent as denoted by the numeral 7, to form a bead upon the top of the can, this bead being disposed substantially at right angles to the annular portion 3 and being downwardly bent at its periphery, to form a lip 22.

A cover 8 is provided, adapted to effect a closure of the can, this cover 8 being upwardly bulged, centrally as denoted by the numeral 9, the upwardly bulged portion 9 being surrounded by an annular trough 10 adapted to depend below the shoulder 5 of the rim, the cover 8, beyond the trough 10, flexing successively, into parts 5', 6' and 7', corresponding in shape to the parts 5, 6 and 7 of the rim, and adapted to fit closely thereagainst, the portion 7' of the cover 8 being arranged to extend over the portion 7 of the rim, and terminating in a bead 11.

Before proceeding with a description of the specific means whereby the cover is locked upon the can, it may be stated that owing to the peculiar formation of the parts 5, 6 and 7 of the rim, and of the corresponding parts 5', 6' and 7' of the cover, and owing to the manner in which the cover fits within the rim, a tight closure of the can may be effected, without causing undue friction between the rim 2 and the cover 8, such friction tending to wear away the tin, and to leave the parts, ultimately, in a rusted and unsanitary condition. Moreover, owing to the fact that the central portion of the cover is upwardly bulged, as shown at 9, and surrounded by the trough 10, which trough 10 is adapted to depend below the shoulder 5 of the rim, when the contents of the can 1 wash about, as the can is moved, the contents of the can will be deflected by the trough 10, away from the joint between the cover 8 and the rim 2, thereby reducing the possibility of leakage from the can.

Mounted radially upon the cover 8, are a plurality of strips 12, preferably 4 in number, and terminating, at their outer ends, in upstanding lugs 14. These lugs 14 are provided, as shown most clearly in Figs. 3, 4 and 5 of the drawings, with inwardly extending ribs 17. These ribs are provided with upright notches 15, and with other notches 16, located at right angles to the

Mounted transversely in the lugs 14, and

disposed transversely of the cover 8, are a pair of resilient bails 18 and 19. These bails are adapted to bear, normally against the adjacent faces of the ribs 17, and each of said bails terminates in portions 20, having a common axis, the portions 20, in their turn, being bent to form inwardly extending fingers 21, adapted, when the bails are tilted, to interlock beneath the portion 7 of the rim 2, to hold the cover 8 in position. These fingers 21 are so constructed, that when the bail turns at right angles to the plane of the cover, the fingers 21 will be out of engagement with the portion 7, the bail denoted by the numeral 19 being thus positioned. When, however, the bail is tilted, to lie substantially parallel with the cover 8, the fingers 21 will lock beneath the portion 7 of the rim, firmly holding the cover in position, the bail denoted by the numeral 18, serving to illustrate this feature. When the bail turns at right angles to the plane of the cover, the bail will seat in the notches 15, and will there be held. When, however, the bail is downturned into a position substantially parallel with the cover, the bail will seat in the notches 16 thus holding the fingers 21 in engagement with the portion 7 of the cover. The several fingers 21 are located in a common circular arc, and the cover 8 may therefore be clamped to the can without rotating the cover 8 after it has once been placed in position.

Having thus described the invention, what is claimed is:—

1. A device of the class described comprising a can provided with an outstanding bead; a cover for the can; and a bail disposed transversely of the cover and pivoted thereto, the bail being terminally provided with inwardly extended fingers arranged to engage the bead when the bail is tilted.

2. A device of the class described comprising a can provided with an outstanding bead; a cover for the can; and a bail disposed transversely of the cover and pivoted thereto, the bail being terminally provided with inwardly extended fingers arranged to engage the bead when the bail is tilted into approximate parallelism with the cover.

3. A device of the class described comprising a can provided with an outstanding bead; a cover for the can; lugs rising from the cover and provided upon their adjacent faces with outstanding ribs; a resilient bail disposed transversely of the cover and pivotally mounted in the lugs, the bail being arranged to bear normally against the ribs; and being terminally provided with in-

wardly extended fingers arranged to engage the bead when the bail is tilted; the bail and the ribs being provided with interlocking elements arranged to hold the fingers in engagement with the bead.

4. A device of the class described comprising a can provided with an outstanding bead; a cover for the can; lugs rising from the cover and provided upon their adjacent faces with outstanding ribs having notches therein; a resilient bail disposed transversely of the cover and pivotally mounted in the lugs, the bail being arranged to bear normally against the ribs, and being terminally provided with inwardly extended fingers arranged to engage the bead when the bail is tilted into approximate parallelism with the cover, the notches being engageable by the bail when the bail is thus tilted.

5. A device of the class described comprising a can provided with an outstanding bead; a cover for the can; lugs rising from the cover and provided upon their adjacent faces with outstanding ribs having rectangularly disposed notches therein, a resilient bail disposed transversely of the cover and pivotally mounted in the lugs, the bail being arranged to bear normally against the ribs, and being terminally provided with inwardly extended fingers arranged to engage the bead when the bail is tilted into approximate parallelism with the cover, one set of the notches being engageable by the bail when the fingers thereof are in engagement with the bead and the rectangularly disposed set thereof being engageable by the bail when the fingers thereof are out of engagement with the bead.

6. A device of the class described comprising an annular member arranged to be assembled with the side wall of a can, and outwardly bent and upwardly inclined to form a shoulder, the shoulder at its periphery being upwardly bent and outwardly inclined to form a rim, the periphery of the rim being outwardly bent and disposed substantially normal to the annular member; and a cover to fit closely against the shoulder and the rim and to extend above the outwardly bent portion of the rim, there being an annular trough in the cover adjacent the shoulder and depressed below the shoulder, the cover being upwardly bulged from the trough to the center of the cover.

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