

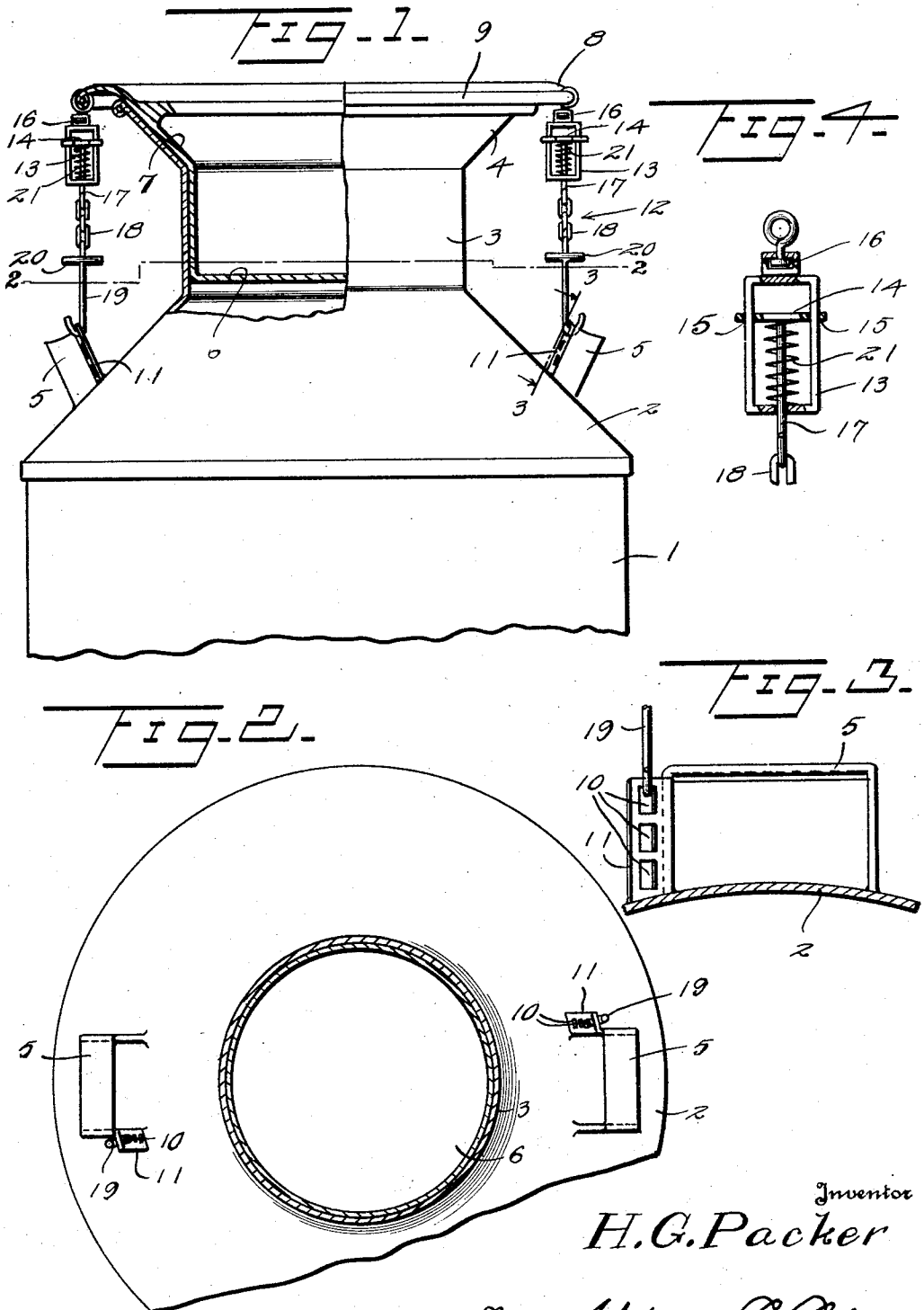
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DEVICE FOR SECURING MILK CAN COVERS

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DEVICE FOR SECURING MILK CAN COVERS

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This invention relates to holding devices for receptacle covers and pertains particularly to a device for securing the lid of a milk can in position on the can.

5 The primary object of the present invention is to provide a securing device for milk can covers by means of which the cover may be firmly held against accidental displacement in the event that the can becomes over-

10 turned for any reason.

Another object of the invention is to provide a cover holding device which will form a permanent part of the can cover and which may be easily and quickly actuated for secur-

15 ing the cover in position or for releasing it from securing position.

The invention will be best understood from a consideration of the following detailed description taken in connection with the accom-

20panying drawing forming part of this specification, with the understanding, however, that the invention is not confined to any strict conformity with the showing of the drawing but may be changed or modified so

25 long as such changes or modifications mark no material departure from the salient features of the invention as expressed in the appended claims.

In the drawing:—

30 Figure 1 is a view of the upper portion of a milk can, a part of the same being broken away, showing the device embodying the present invention in operative position;

35 Figure 2 is a sectional view taken substantially upon the line 2—2 of Figure 1;

Figure 3 is a sectional view taken on the line 3—3 of Figure 1; and

40 Figure 4 is a detailed view of one of the elements of the holding device, portions thereof being in section.

Referring now more particularly to the drawing wherein like numerals of reference indicate corresponding parts throughout the several views, the numeral 1 indicates generally the upper portion of a milk can of the type having an inclined shoulder 2 and the neck 3 terminating in the relatively broad surrounding lip 4 and upon the shoulders of which are mounted at opposite sides of the

45 can, the handle loops 5. The lid for cans of

this character ordinarily comprises a plug-like portion which is indicated generally by the numeral 6, which has an upper outwardly flared portion 7, which when the plug 6 is in place in the neck 3 of the can lies over the

55 top surface of the can lip 4 and extends beyond the top edge thereof terminating in the downwardly curved portion 8 and the rolled edge 9.

In carrying out the present invention each of the handles 5 is provided or formed at one side with a series of eyes 10 which may be provided in any suitable manner but preferably by the securing to the side of the handle of a plate 11 in which the apertures or

60 eyes 10 are formed longitudinally. As the eyes 10 are disposed along one side of the handle they, therefore, extend nearly in a vertical line.

Connected to the down-curved flange portion 8 of the can cover, at diametrically opposite points, are the units 12. Each of these units consists of an open frame 13, the sides of which are connected by the shiftable bar 14 by passing loosely through the eyes 15

65 formed at the ends thereof. At one end the frame 13 has connected therewith a link swivel 16 which is attached to the rolled edge 9 of the can cover in the manner shown.

Connected at one end to the central portion of the sliding bar 14 is a pin 17 which passes longitudinally of the frame 13 and through the end bar opposite that to which the swivel link 16 is connected. The other end of this pin has connected thereto the chain

70 links 18 which serve to connect to the pin the hook member 19, the end of the shank of which opposite the bill portion, has the laterally directed arms 20 which facilitate the grasping thereof.

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In practice it will be seen that when the lid 6 is placed in position in a can neck the coupling units 12 will hang downwardly from the edge thereof and by pulling down upon the hooks so as to compress the spring 21

80 which is mounted in the frame between the lower bar thereof and the sliding bar 14 and through which the pin 17 passes, the bell portion of the hook may be engaged in one of the eyes 10 which is carried by the under-

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lying handle. Thus it will be seen that the cover of the can will be firmly secured in position and should the can become accidentally overturned as frequently happens, the cover will not come off and allow the contents of the can to be lost as frequently happens, also where cans are employed without means for securing the lids thereof in place. Since the connection between the lid of the can and the handle is so readily made by means of the coupling units 12 it will be apparent also that the freeing of the lids may be easily and quickly accomplished also.

It will be readily apparent that when the hook members 19 are not in use they may be connected together across the top of the can lid so as to be out of the way. If necessary, the link connections between the hooks and the members 17 may be shortened up so that the ends of the hooks may be joined together or with the structure as shown, the bill of one hook may be connected with the link of the chain 18 which is joined to the other hook.

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

1. In a milk can having handles and a cover, holding means for said cover comprising an element adapted to be connected with the edge of the cover, a spring carried by said element, a hook connected to said spring, said spring being placed under tension upon drawing the hook away from the said element, and means for coupling said hook with a handle of the can at a selected one of a number of points on a line extending approximately lengthwise of the can.

2. A device for securing a receptacle lid in place in the mouth of a receptacle, comprising a frame-like element, means for swivelly connecting one end of said element with the lid, a spring disposed in said frame, a sliding member extending transversely of the frame and engaging one end of said spring, the other end of the spring being positioned against an end cross member of the frame, a pin connected with said sliding member and extending through said end cross member, a hook element connected at one end with said pin, and means for facilitating the adjustable attachment of said hook with the body of the receptacle.

3. In a milk can having a handle and a cover, means for securing the cover in position comprising a frame element, means for swivelly connecting one end of the element with the cover, a bar extending transversely of the frame and connected at its ends with the sides of the frame for sliding movement therein, an expansion spring disposed between said bar and an adjacent end of the frame, a pin connected at one end with the bar and extending through said spring and the said adjacent end of the frame, a hook element loosely connected at one end with said pin, and an apertured plate connected

with the can handle for engagement by said hook.

4. In a milk can having a handle and a cover, means for securing the cover in position comprising a frame element, means for swivelly connecting one end of the element with the cover, a bar extending transversely of the frame and connected at its ends with the sides of the frame for sliding movement therein, an expansion spring disposed between said bar and an adjacent end of the frame, a pin connected at one end with the bar and extending through said spring and the said adjacent end of the frame, a hook element loosely connected at one end with said pin, an apertured plate connected with the can handle for engagement by said hook, and laterally extending arms forming a part of said hook for facilitating the grasping thereof.

5. A holding device for a receptacle cover, comprising a spring element, a hook connected with one end of said spring element, means for coupling the other end of the spring element with the cover, and a member secured to the body of the receptacle and extending approximately longitudinally thereof and having a plurality of apertures in which said hook may be selectively engaged for placing said spring under a desired tension in securing the receptacle cover in place.

In testimony whereof I hereunto affix my signature.

HARTLEY G. PACKER.