

C. HARBIN.
ATTACHMENT FOR ICE CREAM CANS.
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919,348.

Patented Apr. 27, 1909.

Fig. 1.

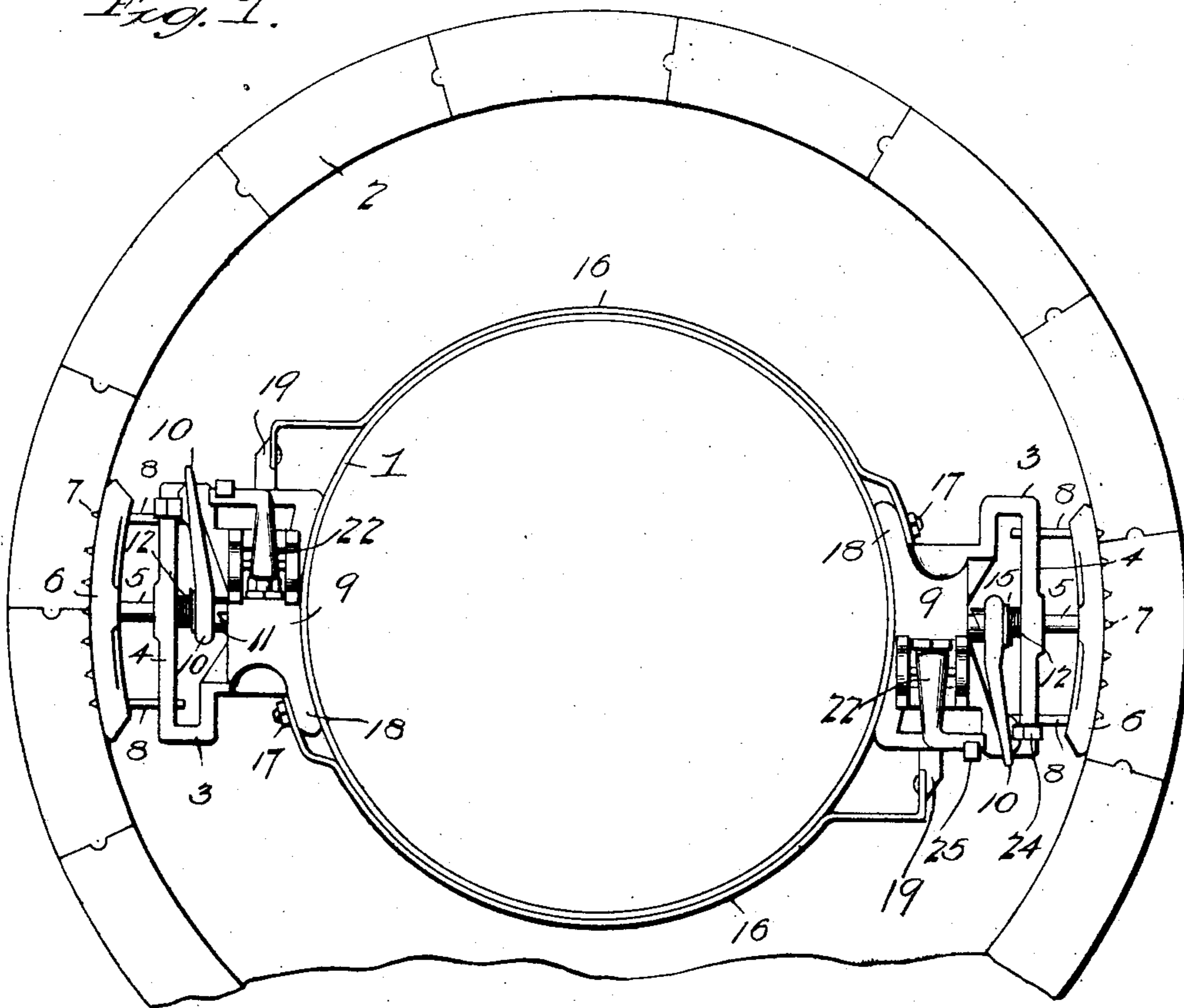


Fig. 2.

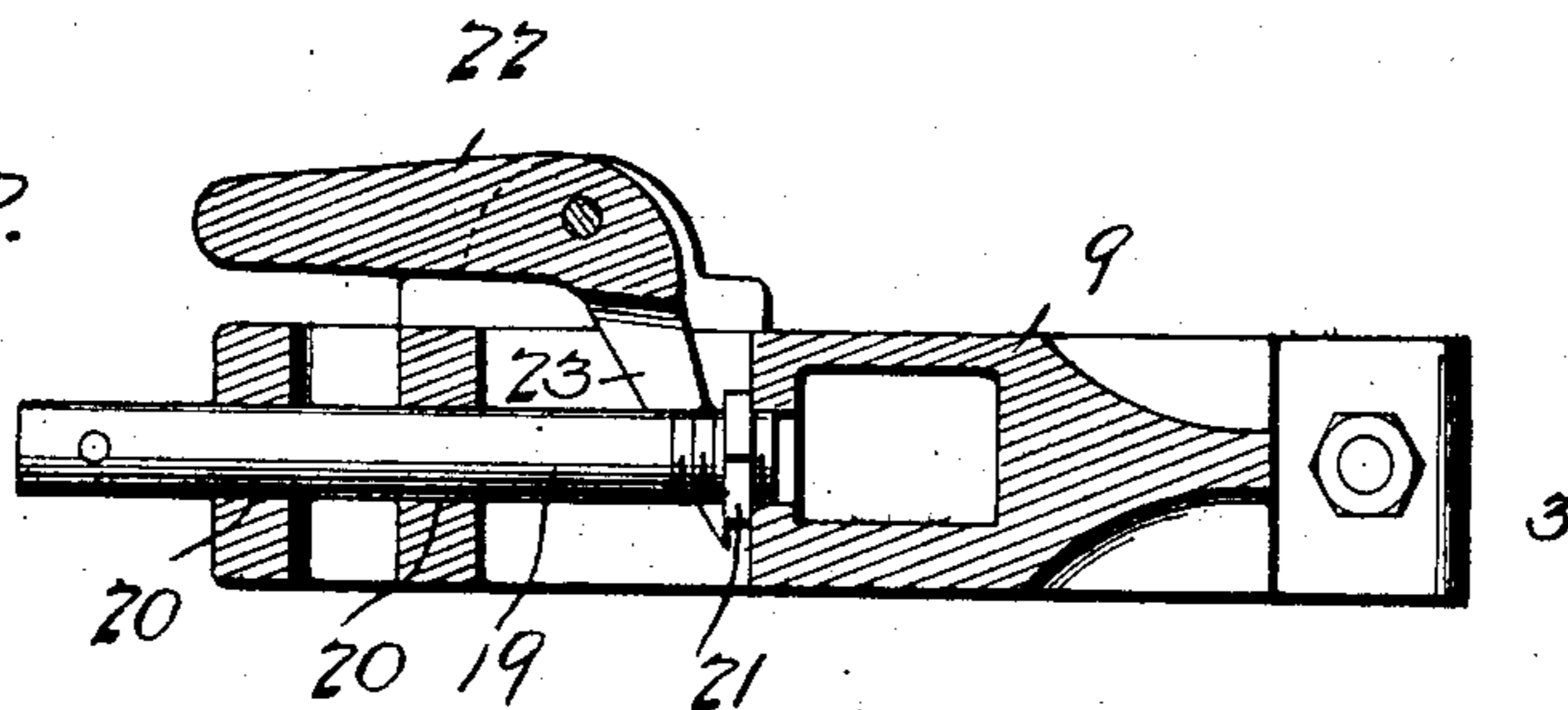
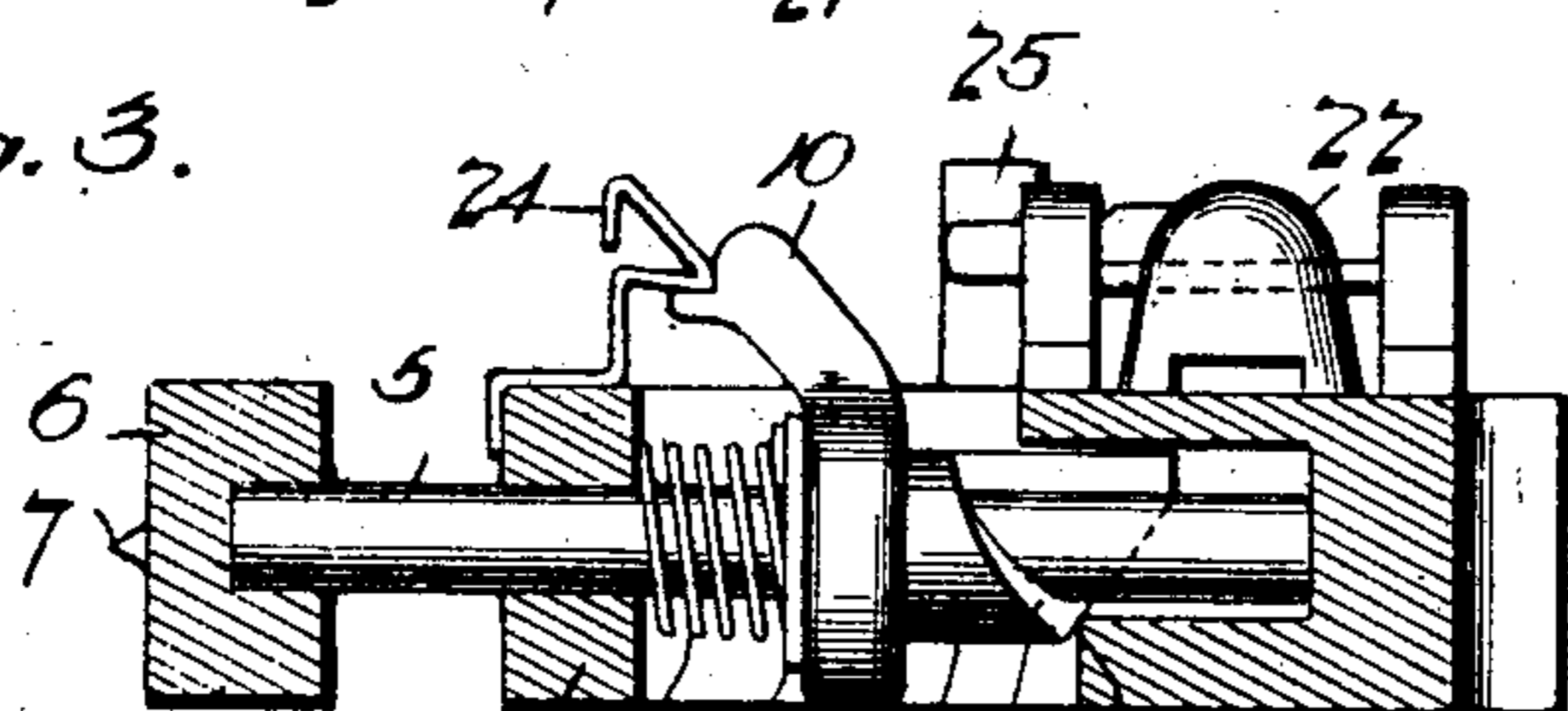


Fig. 3.



Witnesses

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ATTACHMENT FOR ICE-CREAM CANS.

No. 919,348.

Specification of Letters Patent.

Patented April 27, 1909.

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To all whom it may concern:

Be it known that I, CLYDE HARBIN, a citizen of the United States, residing at Monroe City, in the county of Knox and State of Indiana, have invented a certain new and useful Attachment for Ice-Cream Cans, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to attachments for ice cream cans, the object in view being to provide convenient and practical clamping means for centering and securely holding a cylindrical can within a tub or packing case and permitting the can to be readily unclamped or loosened and removed when necessary.

Ice cream and similar preparations are now principally made at large factories in large freezers and after the cream is frozen it is removed from the original freezer and packed in cans and shipped to different points. In shipping these cans they are placed in tubs or receptacles and arranged centrally therein and packed around with ice.

The object of the invention is to provide means for quickly and securely centering and clamping the can in the tub while admitting of the ready removal thereof when empty.

The device is also useful at soda fountains, keeping the can in the center of the tub while the contents thereof are removed periodically, and also preventing the can from falling to one side as the ice melts.

With the above and other objects in view, the nature of which will more fully appear as the description proceeds, the invention consists in the novel construction, combination and arrangement of parts as herein fully described, illustrated and claimed.

In the accompanying drawings:—Figure 1 is a plan view of the can clamp of this invention, showing its relation to a can and packing case or tub. Fig. 2 is a vertical longitudinal section through a portion of the clamp, showing the band tightening means. Fig. 3 is a section taken at right angles to Fig. 2, showing the means for operating the movable jaw of the clamp.

In connection with a single can, I preferably employ a pair of oppositely arranged clamp frames as shown in Fig. 1, in which 1 designates the can for holding the cream and 2 the tub or receptacle in which the can

1 is to be centrally clamped. Each of the clamp frames comprises a body 3 the outer bar 4 of which is provided with a central opening through which slides the stem 5 of the outer movable jaw 6 of the clamp. The jaw 6 is of arcuate form to conform to the inner curvature of the tub and is provided on its outer face with a plurality of teeth or barbs 7 to form a positive engagement between said jaw and the inner wall of the tub thereby preventing slippage of the clamp. The jaw 6 is also provided at or near its opposite ends with guide pins 8 which work through openings in the bar 4. The inner fixed jaw or abutment 9 is formed by a solid portion of the frame which is preferably of metal and the working face of said jaw is curved to conform to the outer surface of the can 1 as clearly shown in Fig. 1.

In order to provide for moving the jaw 6, I provide a jaw-operating lever 10 having a hub portion which embraces the stem 5 of said jaw and is urged toward the inner jaw or abutment 9 by means of a coil spring 12 disposed around the stem 5 between the bar 4 and the lever 10. The inner portion of the hub 11 is cam-shaped or provided with a cam face 13 as best shown in Fig. 3 which co-operates with the inclined shoulder 14 in the abutment 9. As the lever 10 is swung around the stem 5, it acts on a pin 15 which is inserted through the stem 5, thus forcing the stem 5 and the jaw 6 outward into clamping engagement with the tub as seen in Fig. 1. In the reverse movement of the lever 10, the spring 12 acts to force the stem 5 inward and retract the jaw 6 from engagement with the tub.

16 designates a pair of oppositely arranged straps or bands preferably of metal as indicated in Fig. 1, each of said bands being secured at one end as shown at 17 to an attaching lug 18 on one of the clamps while the opposite end thereof is secured to a plunger 19 movable through openings 20 in guides on the frame of the clamp, said plunger having its inner end threaded and provided with an adjusting nut 21 as best shown in Fig. 2. In connection with the plunger 19, I employ a band-tightening lever 22 of elbow form which is bifurcated or forked as shown at 23 to straddle the plunger 19 and bear against the nut 21 so that as the lever 22 is forced downward, it draws inward on the plunger 19 and causes the strap or band 16 to bind

tightly around the can. As two of such band sections 16 are employed and two operating levers therefor, it will thus be seen that the can is securely held until released
5 by loosening the clamps.

24 designates a catch for holding the jaw-operating lever in clamping position while 25 designates a similar catch for holding the band-tightening lever in its operative position.
10 tion.

By adjusting the nut 21 along the plunger 19, the tension of the band sections 16 may be increased or diminished to suit the size of the can and other conditions.

15 I claim:—

1. A device for securing a can centrally within a tub or receptacle embodying oppositely arranged clamp frames adapted to be interposed at diametrically opposite points
20 between the can and tub, semi-circular and band sections each having one end fastened to one clamp frame, and a clamp lever connected to the opposite clamp frame and adapted to draw the band sections around
25 the can.

2. A device for fastening a can centrally within a tub or receptacle, comprising oppositely arranged clamp frames, and oppositely arranged band sections extending

from frame to frame, each clamp frame embodying a tub engaging-jaw, a can-engaging jaw, and a band tightening member.

3. A device for fastening a can centrally within a tub or like receptacle, comprising oppositely arranged clamp frames, and oppositely arranged band sections connected
35 at their opposite ends with the clamp frames, each clamp frame embodying a tub-engaging jaw, means for operating said jaw, a band-tightening plunger, means for operating said
40 plunger, and means for adjusting the throw of said plunger.

4. A device for securing a can centrally within a tub or like receptacle, embodying oppositely arranged clamp frames, and oppositely arranged band sections having their
45 opposite ends connected with the clamp frames, each clamp frame comprising a fixed jaw and a movable jaw, a jaw-operating lever, a spring for retracting said jaw, a plunger
50 connected with one of the band sections, and a lever for operating said plunger.

In testimony whereof I affix my signature in presence of two witnesses.

CLYDE HARBIN.

Witnesses:

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