July 5, 1932. J. R. FOLEY 1,866,457

BUCKET OR CAN SILENCER

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Fig. 1.

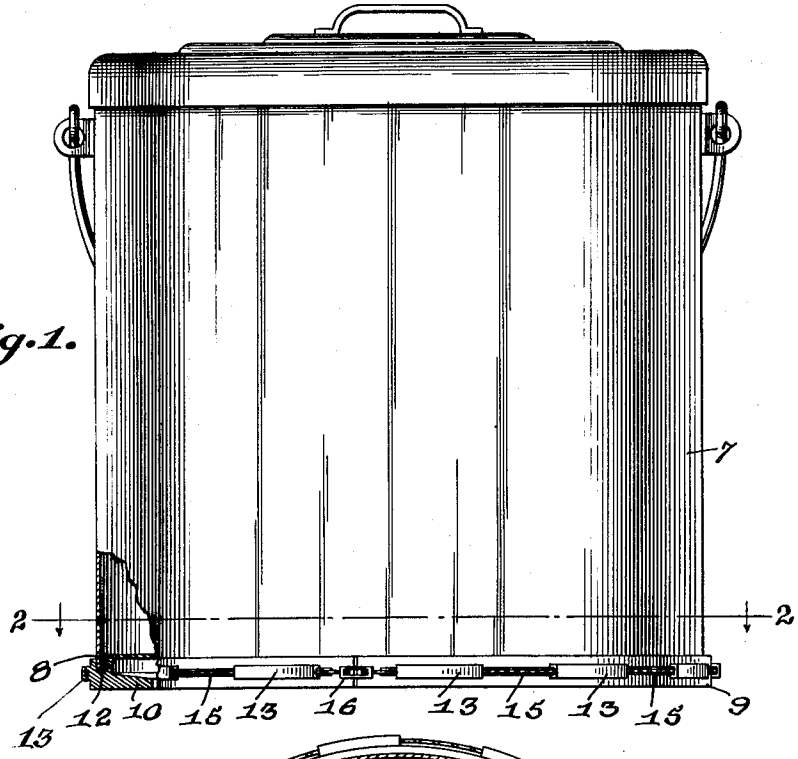
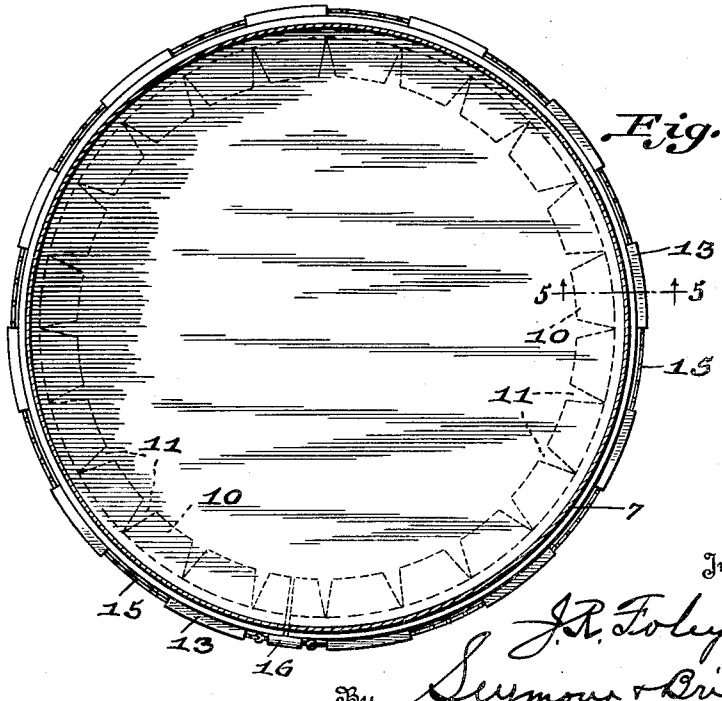


Fig. 2.



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Fig. 3.

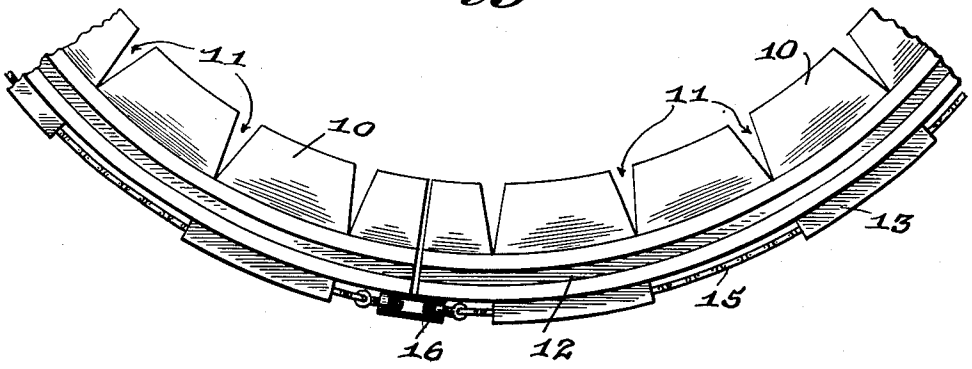


Fig. 4.

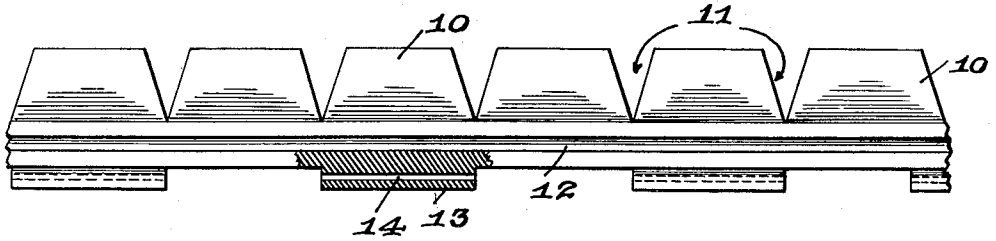


Fig. 5.

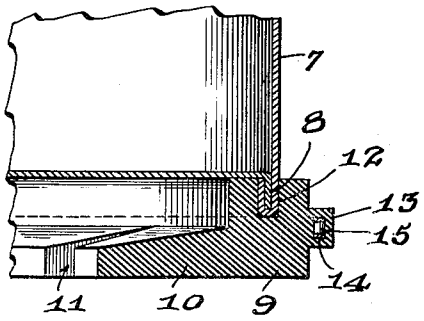
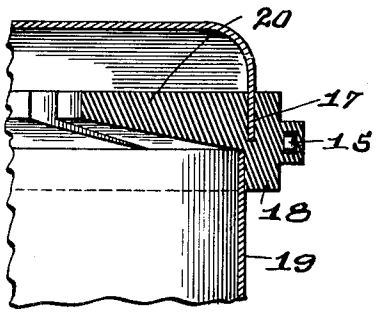


Fig. 6.



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UNITED STATES PATENT OFFICE

JOHN RUSSELL FOLEY, OF NEW YORK, N. Y.

BUCKET OR CAN SILENCER

Application filed May 12, 1931. Serial No. 536,900.

This invention relates to improvements in silencers for buckets or cans.

One of the salient objects of the invention is to make up silencer strips in standard lengths which may be severed to accommodate buckets or cans of various diameters, and which is held in place by a chain or the like which extends through passageways formed in the rubber strip.

Another object is to provide a silencer of this character, which may also be used as a silencer for a can or bucket cover.

Such devices, by eliminating noise, are especially useful with cans or buckets employed in and about hospitals and similar institutions.

With the foregoing objects outlined and with other objects in view which will appear as the description proceeds, the invention consists in the novel features hereinafter described in detail, illustrated in the accompanying drawings, and more particularly pointed out in the appended claims.

Referring to the drawings,

Fig. 1 is an elevation partly broken away of a garbage can provided with one of my improved silencers.

Fig. 2 is a transverse sectional view of the same on the line 2—2 of Fig. 1.

Fig. 3 is an enlarged top plan view of a portion of one of the silencers.

Fig. 4 is a similar view with the chain detached and illustrating in section one of the passageways through which the chain may extend.

Fig. 5 is an enlarged sectional view of a detail on the line 5—5 of Fig. 2.

Fig. 6 is a view similar to Fig. 5, but showing a modification of the silencer for use with a can top.

In the embodiment of the invention illustrated in Figs. 1 to 5 inclusive, 7 designates a can provided at its bottom with the conventional depending skirt or flange 8. My improved silencer is shown at 9, and in accordance with the invention, this silencer is made of some suitable resilient material such as rubber, and said material is molded either to form a straight strip or a substantially circular strip. In either event, it has a horizontal flange 10 which is notched at 11 to facilitate contracting the strip to accommodate cans of various diameters. The main portion of the strip is provided in its top with a continuous channel or groove 12 to fit the flange 8, and the outer wall of the strip is provided at spaced points with projections 13 having passageways 14 extending lengthwise thereof through which a chain 15 extends, the ends of the chain being connected by any suitable means such as a turnbuckle 16.

Standard length strips will be sold to the consumer with the chains 15, and then the consumer can cut off a portion of the strip so as to make the circle which it forms of about the same diameter as that of the can with which the silencer is to be used. Then the chain is cut to the proper length and afterwards, the turnbuckle is tightened so as to cause the silencer to securely adhere to the can bottom.

The notching of the flange 10 converts the latter into inwardly extending feet which not alone tend to prevent the can from upsetting, but act to prevent the same from shifting along a floor or the like.

The same construction may be slightly modified in order to accommodate a can top. As shown in Fig. 6, the silencer is provided with a groove 17 for the reception of the edge of the can top, and the silencer has a depending wall 18 to snugly engage the upper edge 19 of the can. The feet 20 in this instance rest upon the upper edge of the can.

While I have disclosed what I now consider to be preferred embodiments of the invention in such manner that the same may be readily understood by those skilled in the art, it is manifest that changes may be made in the details disclosed, without departing from the spirit of the invention, as expressed in the claims.

What is claimed and desired to be secured by Letters Patent is:

1. A can silencer comprising a substantially circular split ring of resilient material, integral feet projecting from one side of said ring, projections extending from the other side of the ring and provided with passageways, and a flexible endless fastening extend-

ing through said passageways for securely holding the ring on an annular edge of a can.

2. A can silencer comprising a substantially circular split ring of resilient material, integral feet projecting from one side of said ring, projections extending from the other side of the ring and provided with passageways, and a flexible endless fastening extending through said passageways for securely holding the ring on an annular edge of a can, the feet being spaced apart by notches.

3. A can silencer comprising a substantially circular split ring of resilient material, integral feet projecting from one side of said ring, projections extending from the other side of the ring and provided with passageways, and a flexible endless fastening extending through said passageways for securely holding the ring on an annular edge of a can, said ring being provided with a substantially circular groove for the reception of the edge of the can.

4. A can silencer comprising a substantially circular split ring of resilient material, integral feet projecting from one side of said ring, projections extending from the other side of the ring and provided with passageways, and a flexible endless fastening extending through said passageways for securely holding the ring on an annular edge of a can, the fastening having means interposed therein for contracting the same.

5. A silencer for cans or can tops, comprising a rubber ring having a substantially circular groove for the reception of an annular flange of a can member, integral feet projecting from one side of said ring and spaced from one another, and a flexible fastener at the opposite side of the ring for contracting the latter and holding the same in engagement with said flange.

6. A silencer of the kind described, comprising a rubber ring having a substantially circular groove for the reception of the annular flange of a can member, spaced feet integral with the ring and projecting towards its axis, passageways arranged at the outer side of the ring, a chain extending through said passageways, and means for contracting said chain.

In testimony whereof, I have signed this specification.

JOHN RUSSELL FOLEY.