May 15, 1928. 1,669,543

E. J. TALBERT

CAN COVER REPAIRER

Filed Dec. 4, 1925 2 Sheets-Sheet 1

Fig. 1.

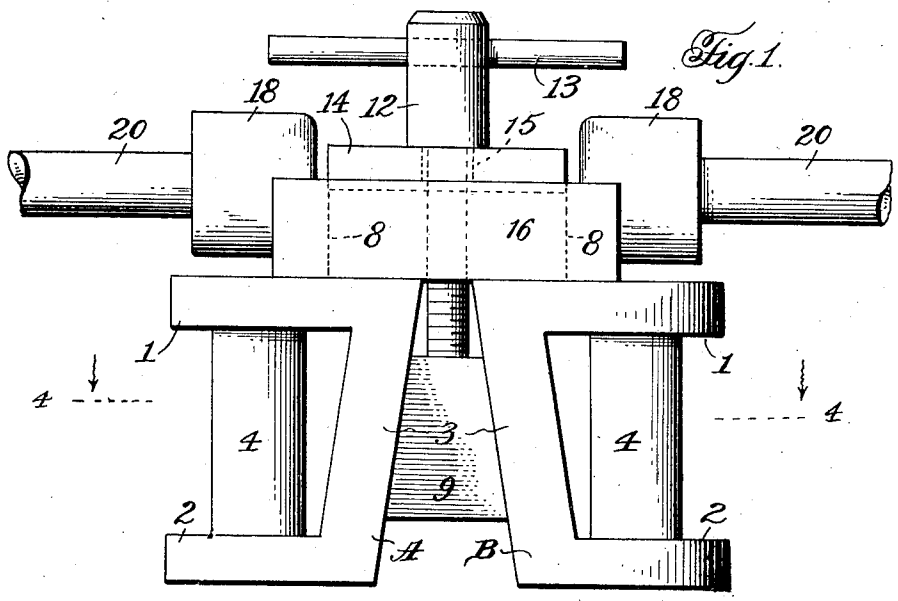

Fig. 2.

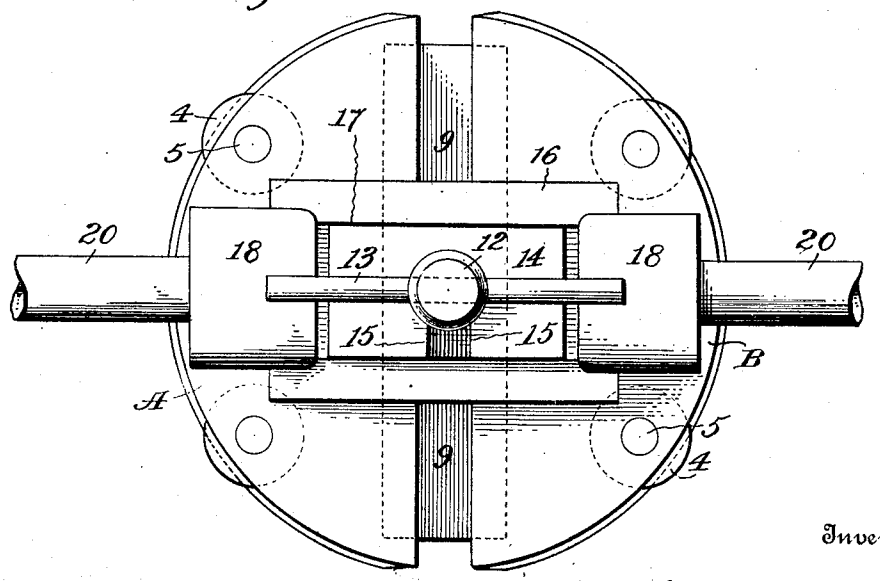

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Fig. 3.

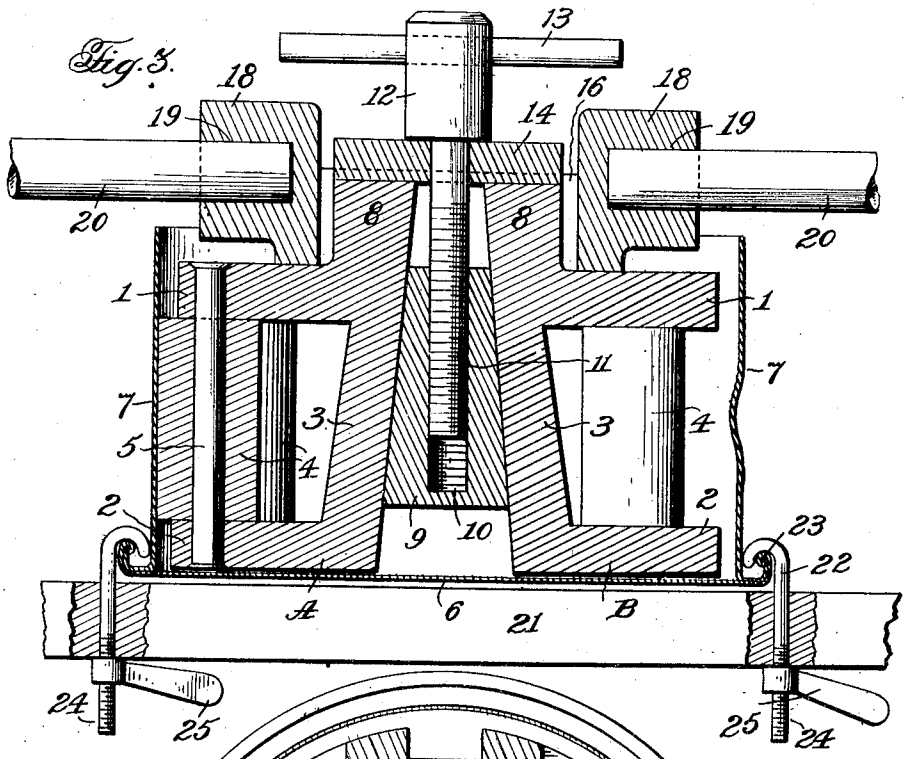
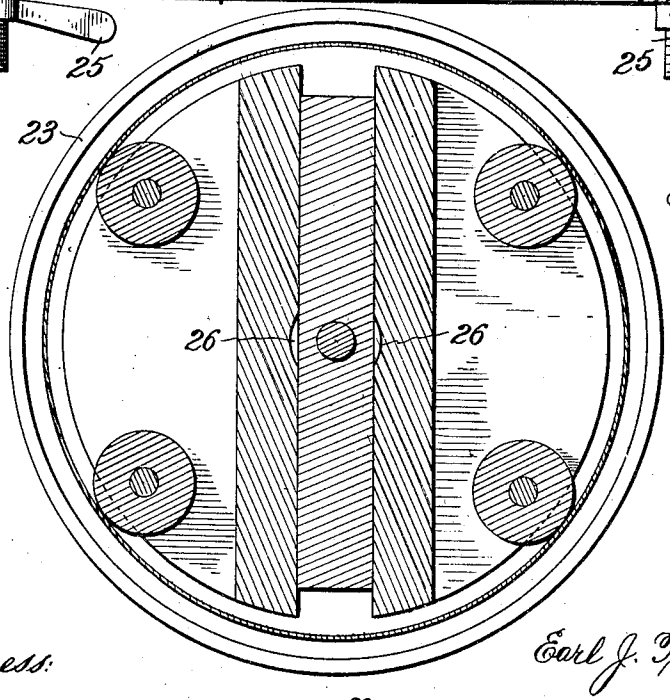


Fig. 4.



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UNITED STATES PATENT OFFICE.

EARL J. TALBERT, OF WATERBURY, VERMONT, ASSIGNOR OF ONE-HALF TO MARK H. MOODY, OF WATERBURY, VERMONT.

CAN-COVER REPAIRER.

Application filed December 4, 1925. Serial No. 73,175.

My invention relates to new and useful improvements in a can cover repairer for removing dents or indentations from milk can covers or the like.

The principal object of the invention resides in the provision of such a device which is simple in construction and relatively light so that it may be moved from place to place and be placed within the can cover and be operated for removing disfigurations therefrom.

A further object of the invention consists in the provision of a device of the character described which is expansible so that it may be easily placed within the can cover and then expanded to engage the walls thereof.

Still another object resides in the formation of the device in such a manner that it may be rotated relative to the cover after being placed in position therein and expanded.

With the above and other objects in view, which will appear as the description proceeds, my invention consists in the novel details of construction, and arrangement of parts, described in the following specification and illustrated in the accompanying drawings, and while I have illustrated and described the preferred embodiments of the invention, as they now appear to me, it will be understood that such changes may be made as will fall within the scope of the appended claims.

In the drawings:—

Fig. 1 is a side elevation.

Fig. 2 is a top plan.

Fig. 3 is a transverse vertical section with parts shown in elevation, and

Fig. 4 is a horizontal section on the line 4—4 of Fig. 1 looking in the direction of the arrows.

Broadly my invention consists in an expansible die member, means for expanding the die, and means for rotating the same. The die comprises the sections A and B each of the sections being semi-circular in form so that when positioned together they will present a circular die to conform to the shape of the cover being operated upon. Each of the sections comprises an upper flange 1, a lower flange 2, and a connecting rear wall indicated at 3, the rear walls being arranged at an angle, as shown more particularly in Figs. 1 and 3, so that when the sections are positioned together they will be normally spaced a greater distance at the bottom than at the top. The lower flange 2 extends slightly beyond the outer periphery of the flange 1 as more particularly illustrated in Fig. 2 of the drawings. Each of the sections A and B carries two vertically extending rollers shown at 4, these rollers being rotatably mounted between the flanges 1 and 2 upon the rods 5 or other suitable connecting means. As shown more particularly in Figs. 2, 3 and 4 of the drawings the outer faces of the rollers 4 extend beyond the outer edges of the flanges 1 and 2 so that the rollers may engage the flange of the can cover as more particularly shown in Figs. 3 and 4. The can cover shown is a milk can cover of usual construction comprising the top portion 6 and the flange 7, the flange 7, when the cover is in position, extending into the neck of the can. Formed on the top of each of the sections A and B of the die is a substantially square projection 8 as more clearly illustrated in Figs. 1 and 3 of the drawings.

For expanding the sections of the die I provide the elongated wedge 9 which is adapted to be received between the sections as shown in the drawings. The wedge has the threaded opening 10 extending from its upper surface to receive the lower end of the screw threaded rod 11, the upper end of the rod being formed with the enlargement 12 having a transversely extending opening through which a rod or lever 13 is slidably mounted. A plate 14 is adapted to be positioned upon the tops of the projections 8 and has a slot 15 extending from one side edge thereof. The threaded rod 11 is passed through the slot 15 and the lower end of the enlargement 12 is adapted to rest upon the upper surface of the plate 14 and freely rotates thereon. When the wedge 9 is in its lowermost position the sections of the die may be brought close together but when the screw 11 is rotated the wedge may be raised and operating between the inclined space between the sections, the sections will be expanded or forced apart so that the rollers 4 may engage the flange of the cover as previously stated.

For rotating the die I provide the frame 16 which has the elongated opening 17 which

is adapted to receive the projections 8 on the die sections and allow them to have a sliding movement therein. While there may be a sliding movement of the sections relative to the frame, when the wedge is adjusted there can be no rotatable movement of the frame relative to the sections. Formed on each end of the frame 16 is an enlargement 18 having an interiorly threaded bore 19 to receive the threaded end of a rod or lever 20. By grasping the levers 20 the frame may be rotated and carry with it the die so that the rollers, bearing against the flange of the can cover, may press out any indentations or irregularities within the flange. As the die will rest upon the inner surface of the top 6 any indentations or irregularities in the top will also be pressed out.

The cover may be secured on any suitable support 21, such as a table, shelf, or the like, and may be secured thereon by means of the hooked members 22, said hooked members engaging the flange 23 of the cover. The hooked members pass through the support and the ends are threaded as shown at 24 to receive the wing nuts 25.

The inner faces of the sections A and B of the die are preferably formed with the tapered groove or recess 26 extending vertically thereof adjacent the threaded rod 11 and parallel therewith, these grooves allowing sufficient room for the operation of the rod 11 at all times.

It is thought that from the above detail description that the construction of my device will be clearly understood. It is a well known fact that in the shipment of milk that the cans receive quite rough treatment and very often the covers of the cans are so dented or disfigured as to prevent a tight fit. The replacing of covers has been very expensive and the advantages in having a device for restoring a cover to its original form can readily be appreciated. When it is desired to repair a cover it will be placed upon a support as is shown at 21 and secured in position by means of the hooked members 22 as more particularly illustrated in Fig. 3 of the drawings. When thus secured my improved device will be placed within the cover, it being understood that when being placed in position the wedge 9 will be in its lowermost position thereby allowing the sections A and B to be brought together so that the die will be of less diameter than the interior of the cover. When placed within the cover the rod or lever 13 will be grasped and the screw threaded rod 11 rotated to draw the wedge 9 upwardly to expand the sections of the die. When the sections are expanded the rollers 4 will engage the inner surface of the flange 7. To rotate the die the rods or levers 20 are grasped and turned. As has been described the projections 8 formed on the upper surfaces of the die sections are substantially square and are received within the elongated opening of the frame 16. The levers or rods 20 rotate the frame and in turn the die sections rotate with the frame. As the die is rotated any dents or other irregularities in the flange 7 will be pressed out so that the flange will be returned to its original straight, round condition. Of course, the die rests upon the inner surface of the top 6 of the cover and as the die is rotated any dents or irregularities in the top of the cover will be pressed out. When the cover is repaired to its original shape and condition it will tightly engage the neck of the can and prevent the leakage of milk. It will be seen that the whole device is of simple construction and relatively light so that it may be carried from place to place.

Having fully described my invention what I claim as new and desire to secure by Letters Patent is:—

1. A can cover repairer comprising an expansible die adapted to be placed in the cover, means for expanding the die, projections formed on the die, and means engageable with the projections for rotating the die relative to the cover.

2. A can cover repairer comprising an expansible die adapted to be placed in the cover, means for expanding the die, projections formed on the die, a frame having an elongated opening to receive the projections, and means for rotating the frame for rotating the die relative to the cover.

3. A can cover repairer comprising an expansible die adapted to be placed in the cover, means for expanding the die, projections formed on the die, a frame adapted to be received upon the die and having an elongated opening to receive the projections and to allow a sliding movement of the projections therein, and means for rotating the frame to rotate the die relative to the cover.

4. A can cover repairer comprising a sectional die adapted to be placed in the cover, a wedge received between the sections of the die, a rotatable threaded rod for operating the wedge to expand the sections, a projection formed on each of the die sections, a frame received upon the die sections, said frame having an elongated opening to receive the projections of the die sections, and means engageable with the frame for rotating the same to rotate the die relative to the cover.

5. A can cover repairer adapted to be positioned in the cover, said repairer having a flat bottom surface to engage the inner surface of the top of the cover and formed of sections each of which is provided with a top and bottom flange between which are positioned rollers, the outer periphery of the rollers extending beyond the edges of the flanges, means for expanding the sections to

engage the rollers with the flange of the cover, and means for bodily rotating the repairer within the cover.

6. A can cover repairer adapted to be positioned in the cover, said repairer being formed of sections each having a flat bottom surface to engage the inner surface of the top of the cover, a roller carried by each section, a member operable between and engageable with the sections for expanding them to engage the rollers with the flange of the cover, and means for rotating the sections.

In testimony whereof I hereunto affix my signature.

EARL J. TALBERT.