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G. H. RUHLMAN & G. C. MILLER.

CAN HOLDER OR JACKET FOR CAN CAPPING MACHINES.

(Application filed Aug. 28, 1901.)

(No Model.)

Fig. 1.

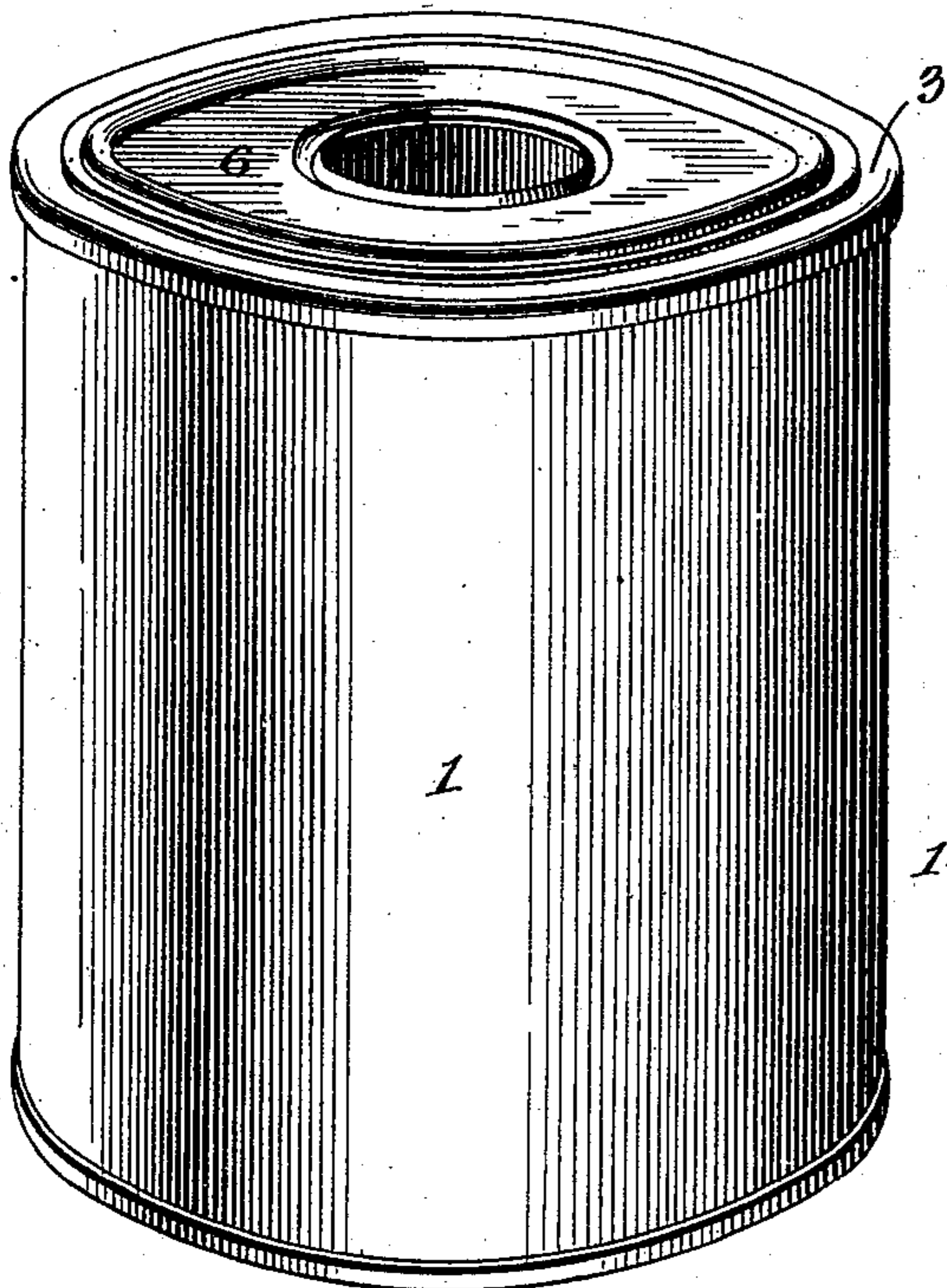


Fig. 2.

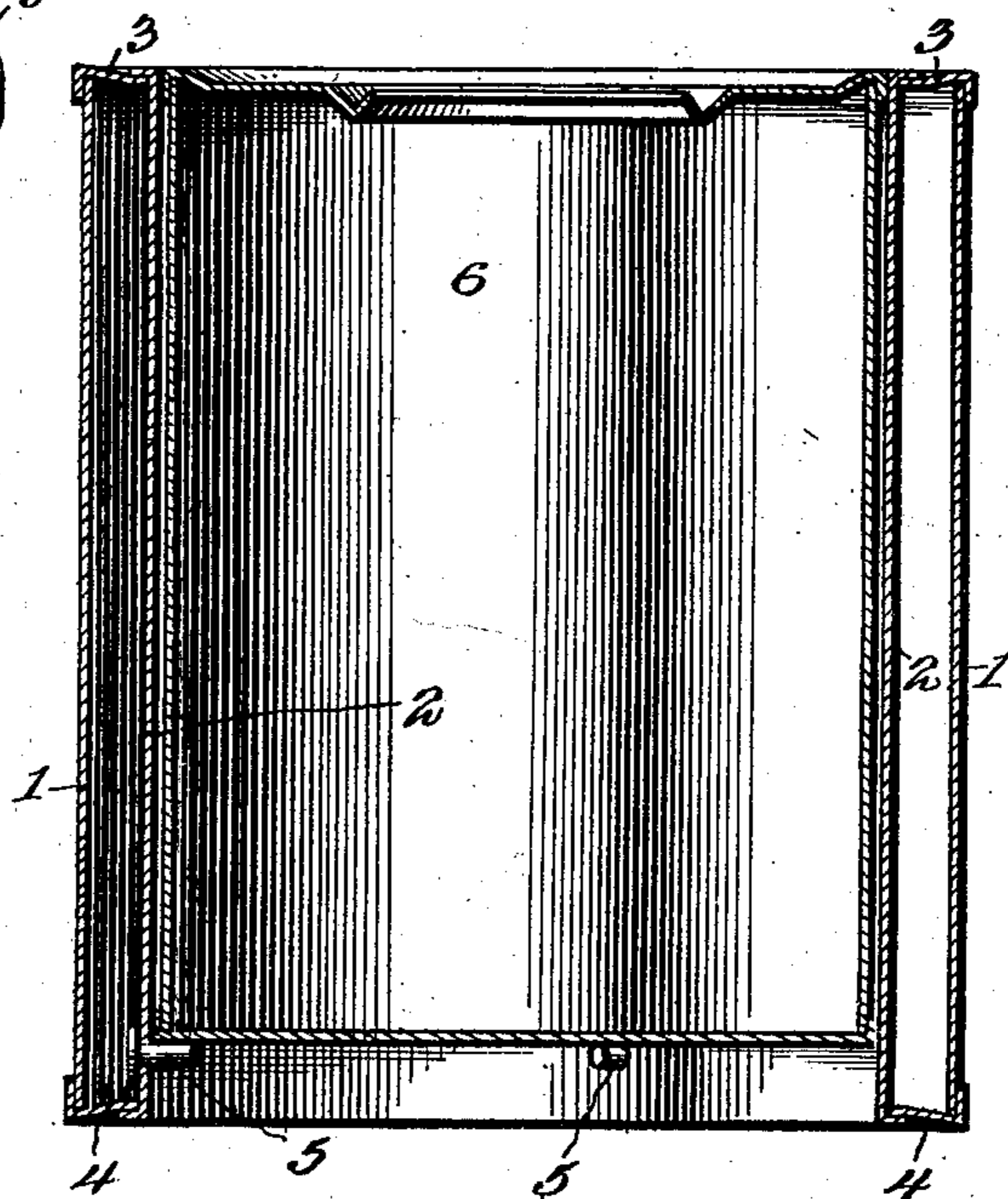
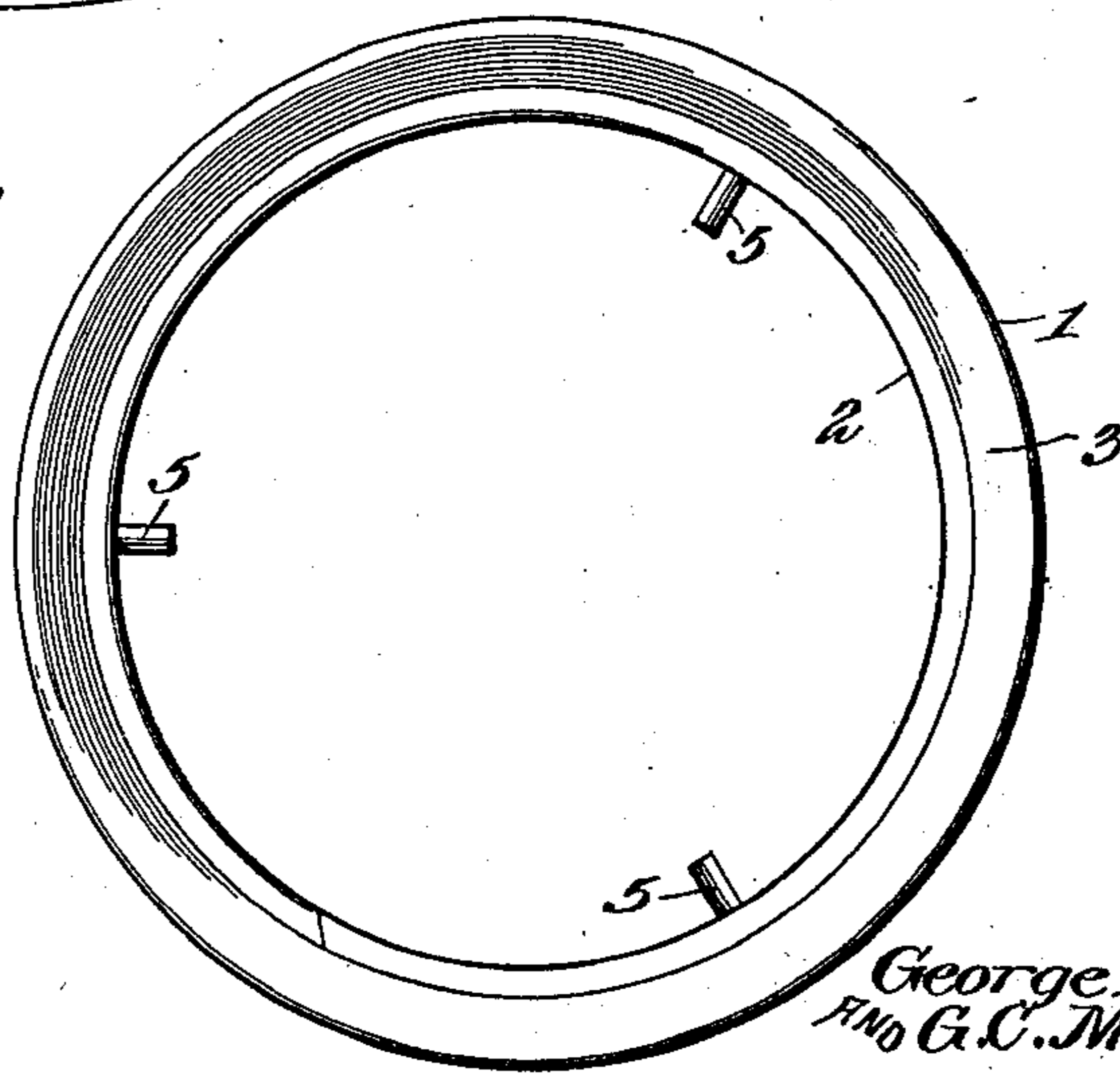


Fig. 3.



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CAN HOLDER OR JACKET FOR CAN-CAPPING MACHINES.

SPECIFICATION forming part of Letters Patent No. 698,057, dated April 22, 1902.

Application filed August 28, 1901. Serial No. 73,620. (No model.)

To all whom it may concern:

Be it known that we, GEORGE HENRY RUHLMAN and GEORGE CURTIS MILLER, citizens of the United States, residing at Cardington, in the county of Morrow and State of Ohio, have invented a new and useful Can Holder or Jacket for Can-Capping Machines, of which the following is a specification.

This invention relates to the art of capping tin cans after they have been filled, and has for its object to provide means whereby any ordinary capping-machine may be adapted for capping cans of different sizes without requiring that the machine be adjusted for each size of can.

Heretofore can-capping machines have been capable of capping but one size of can at a time and also require to be adjusted throughout when changing from one size of can to another, whereby it is necessary to accumulate cans of corresponding sizes, so that each size may be independently run through the machine, the latter being adjusted when changing from one size of can to another. It is furthermore apparent that considerable delay is occasioned by the repeated adjustments of the machine, and also in arranging the output of a factory to accumulate large quantities of filled cans of corresponding size, so as to keep the capping-machine busy.

In view of the disadvantage now presented in ordinary can-capping machines, as above pointed out, it is the essential object of our invention to arrange for running cans of different sizes through the same machine, so that they may be capped regardless of the size thereof, and thereby to obviate the necessity for stopping the machine to adjust the same for each size of can.

The invention consists, essentially, in providing a jacket or holder corresponding in size to the largest standard size of can and adapted to contain a smaller size of can, whereby a plurality of cans of different diameters may be adjusted to correspond to the largest size of can, and all of the cans may properly cooperate with the conveyer mechanism of the machine, so as to be fed to the capping apparatus thereof.

In the drawings, Figure 1 is a perspective view of a can holder or jacket embodying the

present invention, a can being contained within the holder or jacket. Fig. 2 is a longitudinal sectional view thereof. Fig. 3 is a top plan view of the jacket or holder, the can being omitted.

Like characters of reference designate corresponding parts in all the figures of the drawings.

In carrying out the present invention it is designed to provide a jacket or carrier, which is preferably made of tin or other sheet metal, and embodies an outer shell 1 and an inner shell 2, which are connected by the top and bottom bands or rims 3 and 4, respectively, thereby forming a hollow open-ended jacket which is ordinarily cylindrical in shape for the accommodation of the common cylindrical tin cans, although it is contemplated to employ other shapes in connection with polygonal cans.

One end of the holder or jacket, preferably the upper end thereof, is free from interior projections or obstructions, so as to facilitate the introduction of a can into the jacket, and the lower portion of the jacket is provided with a support for the can, preferably in the form of a plurality of projections 5, extending radially inward from the inner shell of the device and adjacent to the bottom edge thereof. It is preferable to have a skeleton or spider-like can-support rather than to provide a solid bottom, as the former construction is more sanitary and permits of a ready cleansing of the device.

It will be understood that it is designed to have the holder or jacket of a diameter equal to the largest standard size of can and slightly longer than such size of can, so that the distance between the top of the jacket and the can-support formed by the projections 5 may be equal to the smaller size of can which is designed to be received within the jacket, so that the top of the can may be flush with the top of the jacket, and thereby exposed to the action of the capping apparatus when the can and holder have been fed thereto.

In employing the present device a filled can 6 which has not yet been capped is inserted through the open top of the jacket and supported therein upon the can-support 5, and

this combined can and jacket is applied to the conveyer of the capping-machine in the manner of an ordinary can which is not provided with a jacket.

5 It will now be understood that in applying the jacket to smaller cans the latter and the jacket have a combined diameter equal to a larger size of can to which the capping-machine has been adjusted, so that the jacketed
10 and unjacketed cans will be fed alike through the machine, and therefore it is not necessary to first run a plurality of cans of one size through the machine and then stop and adjust the machine for the other size of cans.

15 Of course the filling-openings and caps of cans of different sizes are correspondingly different in size, and therefore it is necessary to adjust the acid-applying brushes and the soldering-irons of the machine to alternately
20 correspond with the different sizes of caps—that is to say, they should be arranged for alternately capping first one size and then the other size or to cap two cans of one size and then one can of another size or any other preferred arrangement of cans.
25

From the foregoing description it is apparent that the essential object of the present invention is to provide means whereby cans of different diameters may be rendered capable
30 of being effectually taken up by the feed mechanism of a can-capping machine, whereby it will be understood that each jacket or holder has the same external diameter, but varies in internal diameter according to the
35 difference in size of the smaller cans. In other words, each jacket or holder will fit but one size of can, as the latter must snugly fit the holder.

What we claim is—

40 1. An attachment for can-capping machines consisting of a can holder or jacket in the form of a hollow body having an external shape and size corresponding to that of the largest can of a type to be fed to the machine
45 and capable of snugly receiving a smaller can, the interior of the body corresponding in

shape thereto, and the top of the body having an opening to expose the top of a can contained therein to the capping apparatus of the machine. 50

2. A can jacket or holder for can-capping machines, embodying a hollow body having an open end for the reception of a can, and to expose the cap end thereof, the external diameter of the holder or jacket being equal to
55 the largest standard size of can, and its inner diameter corresponding to that of a smaller size of can.

3. A can jacket or holder for can-capping machines, embodying a hollow body having
60 an open end for the reception of a can, and to expose the cap end thereof, the external diameter of the holder or jacket being equal to the largest standard size of can, and its inner diameter corresponding to that of a smaller
65 size of can, and a can-support within the jacket and located above the bottom thereof.

4. A can jacket or holder for can-capping machines, comprising a hollow open-ended body having an external diameter equal to
70 that of the largest standard size of can, and its internal diameter being equal to a smaller size of can, and a plurality of lateral inwardly-directed projections carried by the inner side of the holder and slightly above the lower
75 open end thereof to provide means for supporting a can within the jacket or holder.

5. A can jacket or holder for can-capping machines, comprising an outer shell, an inner shell, opposite rims or bands connecting corresponding end edges of the shells, and an inner can-support adjacent to the lower end of the body. 80

In testimony that we claim the foregoing as our own we have hereto affixed our signatures
85 in the presence of two witnesses.

GEORGE HENRY RUHLMAN.
GEORGE CURTIS MILLER.

Witnesses:

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C. F. HEIMLICH.