

(No Model.)

G. H. BARTLETT.
PAPER CAN.

No. 544,525.

Patented Aug. 13, 1895.

Fig. 1.

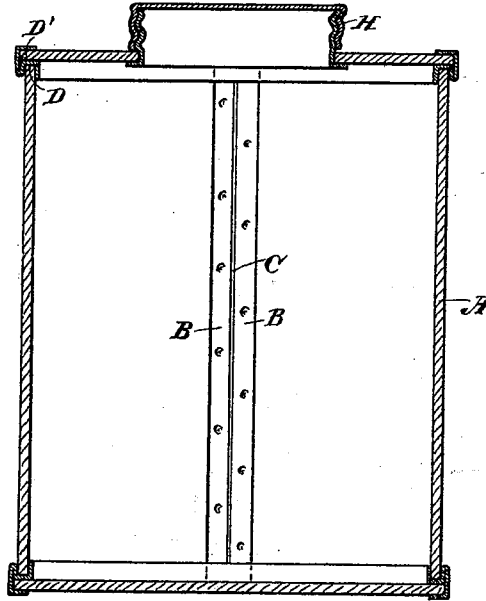


Fig. 2.

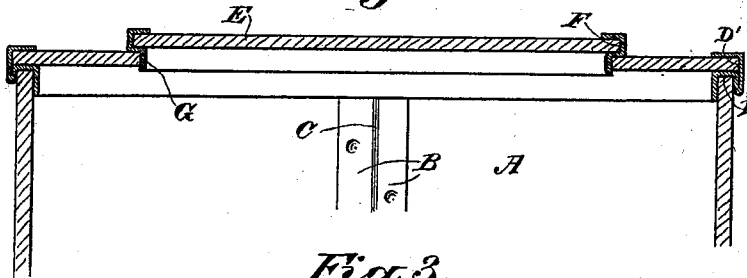


Fig. 3.

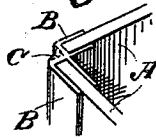


Fig. 4.



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UNITED STATES PATENT OFFICE.

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PAPER CAN.

SPECIFICATION forming part of Letters Patent No. 544,525, dated August 13, 1895.

Application filed October 22, 1894. Serial No. 526,621. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. BARTLETT, a citizen of the United States, residing in the city and county of San Francisco, State of California, have invented an Improvement in Paper Cans; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to improvements in the manufacture of cans.

It consists in certain details of construction, which will be more fully explained by reference to the accompanying drawings, in which—

Figure 1 is a vertical section through a can. Fig. 2 is a similar view showing the attachment of a paper cap. Figs. 3 and 4 show the manner of forming the body of a rectangular or a circular can, respectively.

The object of my invention is to provide a can with complete pasteboard or paper sides and ends and a means for uniting them with the smallest amount of metal, and to reduce the expense while making a secure construction.

The body of the can A is made of pasteboard or other similar material, and may be of cylindrical, rectangular, or other shape, as desired.

In order to unite the meeting edges of the material forming the sides, I employ strips B B, which are cut out of the metal to be used and are bent by a machine so as to form grooves or channels within which the edges of the pasteboard are received and secured. These grooved or channeled strips are united by solder at a point C, opposite to the open edges into which the pasteboard is to be secured. When the can is cylindrical, these strips are united approximately in a plane with the open channels which are opposite to each other. When they are to be used for square or angular cans, these strips are united so that the channels stand at approximately right angles from each other, and, in either case, the edges of the pasteboard being introduced into these channels, the metal is indented so as to be pressed into the material of the pasteboard and thus lock it firmly in place. By thus rolling these strips I am enabled to make them of any length, and only one thickness of metal appears upon the outside and inside of

the can. They can be made of any desired length by soldering the strips together, so that long rolls can be united in the same manner.

In order to secure the heads upon the pasteboard cylinder I take narrow strips of metal and roll them into the form of an S in transverse section, forming two channels D D', which face in opposite directions. One of these channels fits over the end of the can-body, as shown in the sectional view, and by means of a proper machine, which is caused to travel around upon the inside and the outside, this channel is firmly crimped upon the end of the can-body. The outer periphery of the metal now projects upwardly around the outside of the opposite channel, and the head, being cut to the proper size, is let into this periphery, resting upon the curvature of the metal between the two channels, and this upwardly-projecting edge of metal is then bent or crimped over, so as to firmly lock the pasteboard head to the ring. This method is preferable to bending or crimping the pasteboard itself. One end of the can may have an opening made in it of suitable size to give access to the interior. This opening may be fitted with a screw-cap, the permanent or fixed portion being secured in a hole in the can-head in the usual or any suitable manner by introducing the flange and crimping it so that the nozzle is secured in place.

If the can be large and it is desired to have a large opening, instead of using a screw-cap the cap is made of a paper disk E, the periphery of which is secured in a channel F made by bending a strip of metal to the proper shape and also the proper curvature for the size of the cap. The other edge G of this strip of metal projects downward at right angles with the cover, and this forms a flange which may fit over or within the can-body, as desired. In this manner the parts of the can are united with a very small expenditure of metal and little or no waste.

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

1. An improved can composed of paper or paste board and consisting of a body formed of one piece with its edges joined together along one side by means of U-shaped channel strips whose bases abut whereby the strips

are approximately flush with and form continuations of the said edges, and means for uniting the top and bottom of the can to the body consisting of thin strips of bendable
5 metal rolled in an S-form in transverse section to form oppositely facing channels for the end of the can body, while the outer periphery of the metal strip projects upwardly around the outside of the opposite channel to
10 receive the head, which rests upon the metal between the two channels, said projecting edge being bent or crimped over said end to securely lock the same to the body, substantially as herein described.

15 2. As an article of manufacture, a can consisting of a cylindrical paste board or paper body, paper or paste board heads therefor, U-shaped strips of thin metal united together

and each receiving one edge of the can body, narrow metal strips of bendable metal rolled 20 into approximately S-form in cross section with one portion forming a channel to receive the end of the body while the outer edge of the strip is bent over the head to lock the same to the body, an opening formed in one of said 25 heads, a channeled strip surrounding the opening and a paper disk for closing said opening and having its edges confined by the surrounding strip, substantially as described.

In witness whereof I have hereunto set my 30 hand.

GEORGE H. BARTLETT.

Witnesses:

S. H. NOURSE,

H. F. ASCHECK.