

(No Model.)

G. L. PFEIFFER.
FRUIT JAR.

No. 488,614.

Patented Dec. 27, 1892.

Fig. 1.

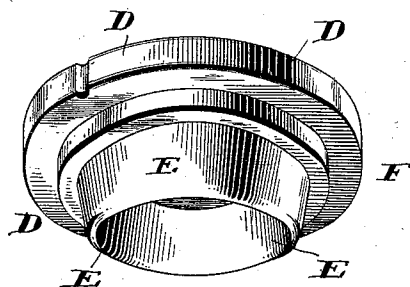
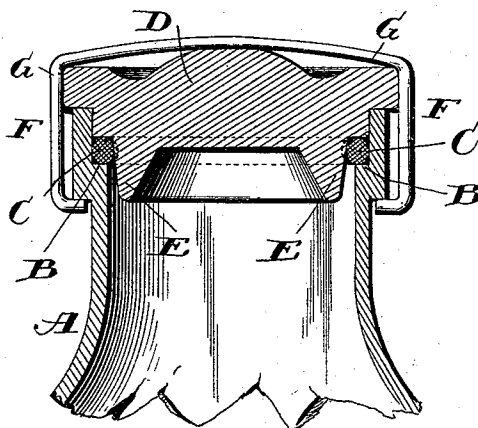


Fig. 2.



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UNITED STATES PATENT OFFICE.

GEORGE L. PFEIFFER, OF WILLIAMSTOWN, NEW JERSEY.

FRUIT-JAR.

SPECIFICATION forming part of Letters Patent No. 488,614, dated December 27, 1892.

Application filed March 28, 1892. Serial No. 426,731. (No model.)

To all whom it may concern:

Be it known that I, GEORGE L. PFEIFFER, a citizen of the United States, residing at Williamstown, in the county of Gloucester and State of New Jersey, have invented certain new and useful Improvements in Fruit-Jars; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in fruit jars and it has for its object to provide a jar which will be specially adapted for packing tomatoes, by what is termed the "cold packing process."

In cold packing of tomatoes the fruit is first peeled and then packed while cold, in cans or jars. When cans are employed, the cans thus filled are provided with heads which are securely soldered in place, and the cans are then boiled for a length of time sufficient to warrant the keeping of the contents. During the boiling the contents of the can will be expanded by the heat, and as no vent or outlet for the steam is provided, the can is subjected to a severe strain, which bulges the heads of the can, which, in the event of imperfect soldering will sometimes cause a leak through which the steam escapes, and the good effects of the process thus destroyed.

The special object of the present invention is to provide a jar or can which is specially adapted for use in cold packing, and the invention resides in the peculiar form of the cap or cover of the jar, and its relation to the neck of the jar and packing-ring seated therein, whereby the cap will be found to be equally well adapted to withstand great pressure from within, such as is exerted in the process of cold packing, this being accomplished by the peculiar relationship existing between the beveled edges of that portion of the cap which fits within the entrance of the jar, in connection with the packing ring, whereby the joint between the cap and jar is made by lateral pressure.

To these ends and to such others as the invention may pertain, the same consists in the peculiar construction and in the novel combi-

nation, arrangement and adaptation of parts, all as more fully hereinafter described, shown in the accompanying drawings, and then specifically defined in the appended claim.

The invention is fully illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which drawings;—

Figure 1 is a perspective view of the cap of a jar embodying my improvements. Fig. 2, is a vertical section through the upper portion of a jar constructed in accordance with my invention, the cap being shown as seated therein.

Reference now being had to the details of the drawings by letter, A designates a fruit packing jar of ordinary size and general form of construction. Within the entrance of the jar, is provided an annular shoulder B a short distance below the extreme entrance of the jar, and upon this shoulder is seated a packing ring C, preferably of rubber. The under side of the cap or cover D, is formed with a beveled lower portion E, which when the cap is seated in the entrance of the jar, bears against the packing ring C, as shown in Fig. 2 of the drawings, while the shoulder F upon the cap engages the upper edge of the mouth of the jar. It will be seen that by this construction, the cap will be seated by lateral pressure, and that when the filled jar is subjected to heat, as in the process of cold packing above mentioned, the cap will be capable of withstanding a great strain from within, without danger of breaking the wire G or other fastening, which may be employed in fastening the cap in place upon the jar.

While I have described my invention as applied to fruit packing jars, I do not desire to limit myself in this application to its use in this connection solely, but contemplate the application of the principle involved to any of the various forms of cans, jars or other vessels which may be employed in cold packing, or in preserving fruits or vegetables by any of the canning processes. The beveled portion E is hollow, as seen in both views, thereby providing an air chamber for the reception of the compressed air, and, in case the jar is used for hot packing, permitting of slight expansion of said tapered portion without breaking.

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

- The combination with a jar or can provided
5 integrally near its mouth with an annular
shoulder, of a cap or stopper having a should-
ered flange to rest upon the top of said can
or jar, an annular shoulder within the mouth
of the can or jar and a terminal portion E ex-
10 tending from said inner shoulder and beveled
upon its outer face, a yielding packing
ring held between the shoulder of the jar and

the inner shoulder of the cap and adapted to
be compressed radially by the engagement
therewith of the beveled outer face of the 15
portion E, substantially as and for the pur-
pose specified.

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

GEO. L. PFEIFFER.

Witnesses:

FRANK MCCHESENEY,
J. T. WOOD.