

No. 828,936.

PATENTED AUG. 21, 1906.

J. M. HICKS.
SEALING MEANS FOR VESSELS.
APPLICATION FILED MAY 12, 1905.

Fig. 1.

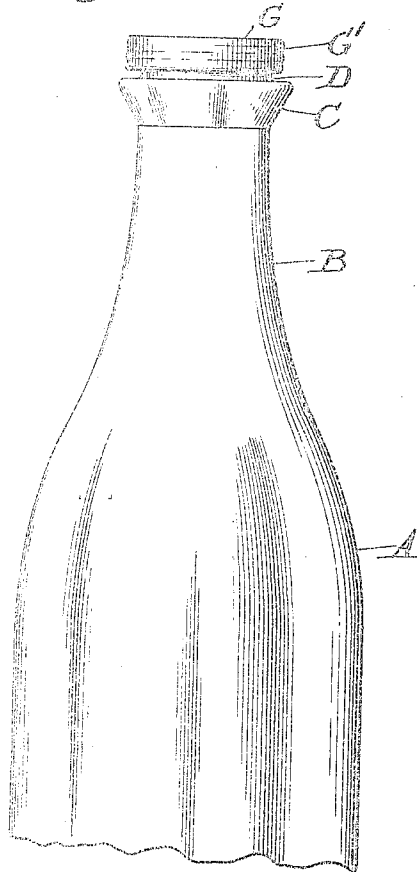


Fig. 2.

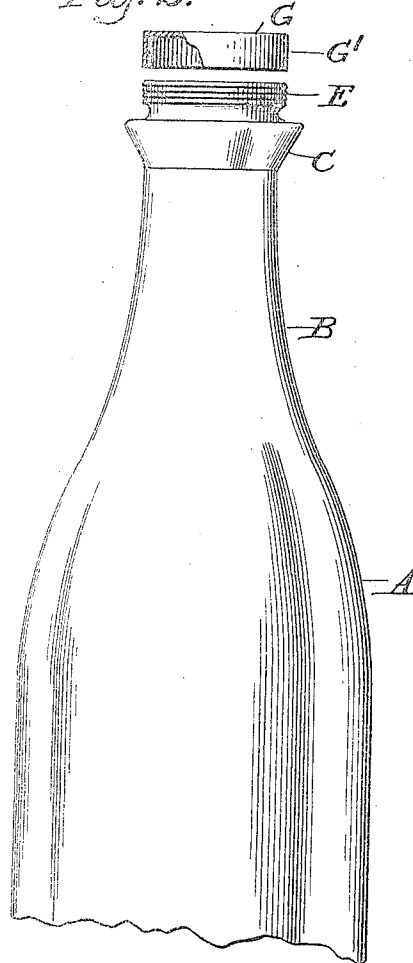
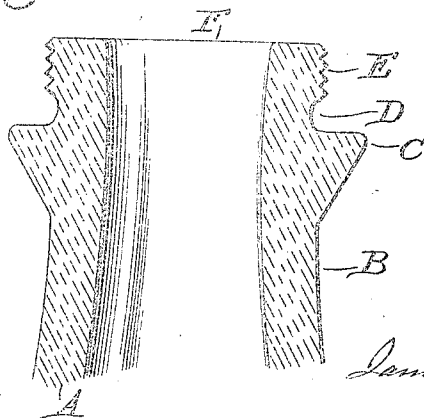


Fig. 3.



WITNESSES:
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JAMES MILNOR HICKS, OF SUMMIT, NEW JERSEY, ASSIGNOR TO THE
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SEALING MEANS FOR VESSELS.

No. 828,900.

Specification of Letters Patent.

Patented Aug. 21, 1906.

Application filed May 12, 1905. Serial No. 260,170.

To all whom it may concern:

Be it known that I, JAMES MILNOR HICKS, a citizen of the United States, residing at Summit, county of Union, State of New Jersey, have invented certain new and useful Improvements in Sealing Means for Vessels, of which the following is a specification.

My invention relates to sealing means for vessels; and it consists in certain elements and combinations of elements fully specified and claimed hereinafter.

In order that persons skilled in the art to which my invention appertains may understand, construct, and use my invention, I will proceed to describe it, referring to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an elevation of a bottle with my invention applied to it, the sealing-cap being secured thereto. Fig. 2 is an elevation of the same, showing the sealing-cap about to be applied and the construction of the upper part of the neck. Fig. 3 is a longitudinal central section of the neck and mouth of the bottle in enlarged view.

A is the body of the bottle.

B is the neck.

C is an enlargement of the neck at its upper part. D is a groove above said enlargement and below a serrated portion E at the top of the neck surrounding the nose of the bottle.

F is the mouth of the bottle.

G is the bottle-sealing cap of smaller internal diameter than the serrated portion E. Previous to its being applied to the bottle it is substantially cylindrical in shape and having a pendent flange G'. G' is the said pendent flange dropped from the top surface G of the cap.

The cap G G' is forced down over the serrated portion E, stretching the material of the cap-flange G' to about the limit of the elasticity of the material of the flange, so that the flange G' pinches the serrated portion E and secures the cap upon the bottle strongly. The cap-flange G' is made long enough to pass below the serrated portion E and grip the shoulder above the groove D,

because the elasticity of the stretched flange 50 after passing the serrated portion E draws into about its original diameter previous to its being stretched. The portion of the flange G' which remains on the serrated portion E being under tension, draws into the 55 grooves between the threads of the serrated part and gives an additional hold to the flange on the bottle.

The cap-flange is not roughened or serrated on its inner surface, but a plain cup- 60 shaped cap easily made by one operation.

Of course when pressure is contained in the vessel a sealing-cork or its equivalent is used either in the bottle-mouth or over its top surface.

The enlargement C is substantially flat upon its upper side and affords a convenient means to support a cap-removing tool of any ordinary make; but the cap may be removed in any other well-known manner by tools al- 70 ready in common use.

Having now fully described my invention and the manner in which I have embodied it, what I claim as new and as my invention, and desire to secure by Letters Patent, is— 75

1. In a means for securing sealing-caps on vessels the combination consisting of a plain cup-shaped cap, a vessel-neck; a serrated portion upon the outer surface thereof, near its mouth, and a shoulder located beneath said serrated portion, the said cap being of smaller internal dimension than the said serrated portion upon the vessel, whereby when said cap is forced over the said serrated portion, the said sealing-cap is strained when 80 passing over said serrated portion and when the lower part of the said cap has passed below the said serrated portion it returns substantially to its original dimension and the part which remains on the said serrated part 90 of the vessel, impresses itself into the depressions of the said serrations and grips the serrations firmly, substantially as specified.

2. In a means for securing sealing-caps on vessels, the combination with plain sealing-cap having an upper surface and a cylindrical flange pendent therefrom, of a vessel 95 having a serrated rim near the top of its neck;

the said sealing-cap being of smaller diameter than the diameter of the said rim, before it is forced over the said rim, whereby when forced over said serrated rim, the material of
5 said cap is strained and firmly held upon the vessel by the elasticity of the material of the said flange substantially as specified.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this May, 1905.

JAMES MILNOR HICKS.

Witnesses:

JOHN A. HICKS,
NATHANIEL P. BARR.