

Jan. 4, 1927.

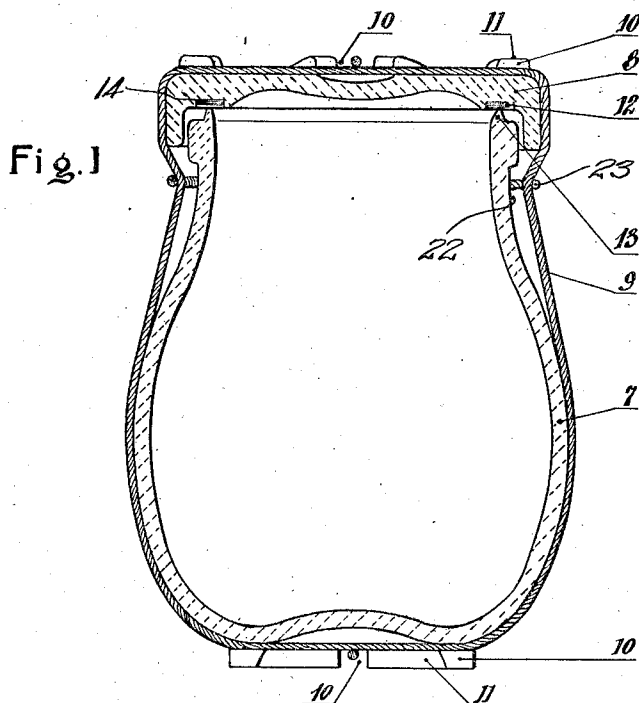
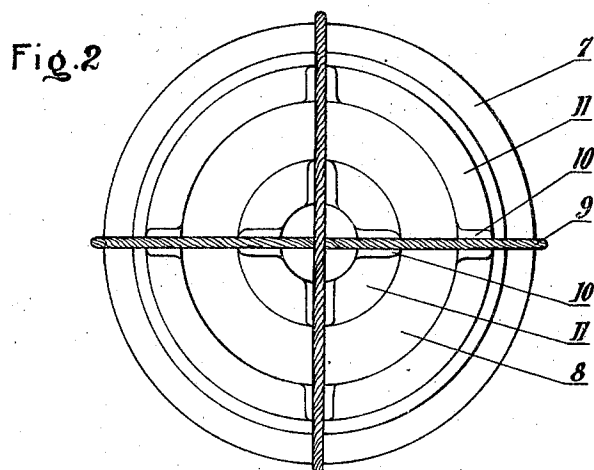
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E. MAINGONNAT

CLOSING OF JARS, BOTTLES, OR THE LIKE

Filed Jan. 23, 1926

2 Sheets-Sheet 1



Inventor,
Eugene Maingonnat

By William C. Linton.
Attorney.

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Fig. 3

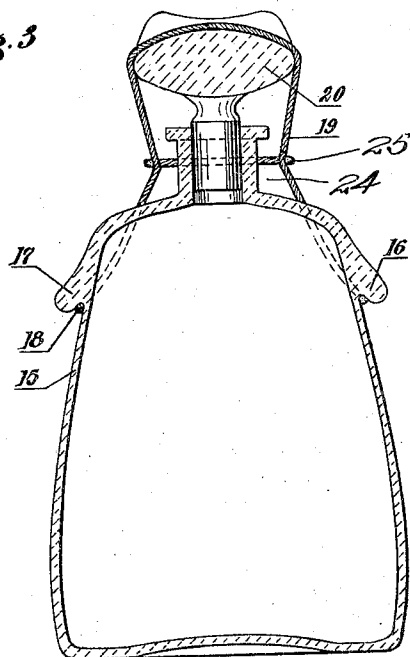
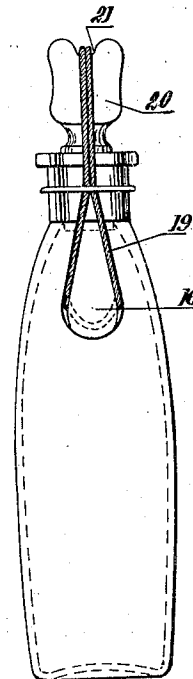


Fig. 4



Inventor,
Eugene Maingonnat.

By William C. Linton.
Attorney.

UNITED STATES PATENT OFFICE.

EUGÈNE MAINGONNAT, OF PARIS, FRANCE.

CLOSING OF JARS, BOTTLES, OR THE LIKE.

Application filed January 23, 1926, Serial No. 83,374, and in France February 10, 1925.

Methods for the closing of jars, bottles or like vessels are already known in which there is employed a wire, cord or the like which is disposed vertically around the vessel in slots or grooves which are formed in the vessel and its cover.

But in this closing method the cord or the like cannot be tightly stretched, and for this reason the cover will not be properly held in place.

I propose to obviate such drawbacks by providing at the part situated between the cover or stopper and the body of the vessel a restricted portion wherein the last turns of the cord can be wound horizontally around the vertical strands; so that the horizontal part of the cord can be tightened in such manner as to stretch the vertical strands with great force whereby the cover will be properly held in position.

The appended drawings show by way of example two embodiments of my invention.

Figure 1 and Figure 2 are respectively sectional and plan views of a jar provided with my said closing means.

Figure 3 and Figure 4 show respectively a front and a side elevation of a bottle which is provided with like closing means.

In Figures 1 and 2, the jar 7 and its cover are held together by a binding element 9 such as a cord, wire or the like, which is disposed in the grooves 10 having a cross shape, which in this particular device are formed by the spaces between the bosses 11 formed on the bottom and on the cover of the jar. As observed, the said bosses have a flat surface whereby the vessels may be placed upon one another. I employ a plastic packing member 12 offering the proper tightness, and this may be improved by the use of an annular groove 14 in the cover, cooperating with an annular rib 13 on the jar.

According to the invention, the jar has a smaller cross section at 22 below the cover 8, so that the cord 9 can be in the first place disposed in the grooves 10 so as to make several crossed turns in the vertical direction, and the cord can then be given a few

turns at 23 adjacent the restricted part 22, whereby the vertical strands 9 of the cord will be considerably tightened; the operation is completed by making a suitable knot in the cord.

In the device shown in Fig. 3 and Fig. 4, the bottle 15 is not provided with ribs at the bottom, but I form upon the sides of the bottle the respective projections 16 and 17 which are so disposed as to form grooves 18. The stopper 20 is provided with a single groove 21.

The width of the stopper 20 in the direction of the groove 21 is sufficient to afford a suitable restricted portion adjacent the bottle neck 24, so that one or more horizontal turns of cord 25 can be wound upon the vertical turns of the cord 19 which are engaged in the grooves of the bottle and of the stopper in the known manner.

I claim:

In combination with a receptacle having the neck portion thereof constricted, a cap receivable over the same formed with a marginal flange disposed outwardly and away from the surface of said constricted neck, an annular rib integral with the bottom of said receptacle having pairs of relatively opposed grooves formed therein, pairs of bosses integral with the upper surface of said cap adapted to be arranged so that the ways between the same are disposed coincidentally with the grooves in the annular rib, and a flexible binding member disposed vertically of the receptacle and passed through the grooves in the annular rib and the ways between said bosses, a portion of said flexible binding member being arranged horizontally of and snugly about the constricted neck portion of the receptacle and over the adjacent vertically disposed portion of said member whereby to draw the frame inwardly toward the adjacent surface of the constricted neck portion.

In testimony whereof I have hereunto set my hand.

EUGÈNE MAINGONNAT.