Nov. 8, 1927. 1,648,793

I. E. WEBER

CLOSURE FOR BOTTLES

Filed Feb. 16, 1927

FIG. 1.

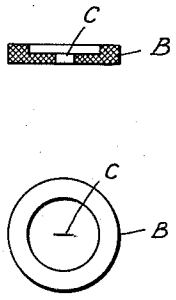


FIG. 2.

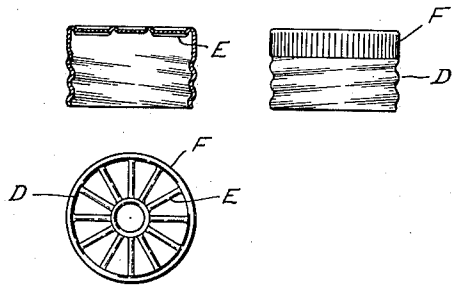
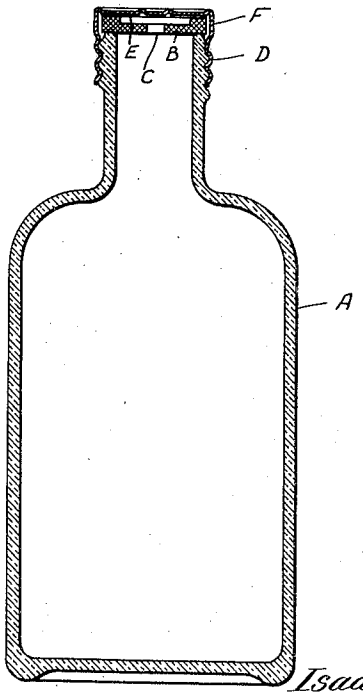


FIG. 3.



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By

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Patented Nov. 8, 1927.

1,648,793

UNITED STATES PATENT OFFICE.

ISAAC EPHRAIM WEBER, OF LUTON, ENGLAND, ASSIGNOR OF ONE-HALF TO B. LA PORTE LIMITED, A BRITISH COMPANY, AND ONE-FOURTH TO HORACE EDWARD ALCOCK, BOTH OF LUTON, ENGLAND.

CLOSURE FOR BOTTLES.

Application filed February 16, 1927, Serial No. 168,664, and in Great Britain May 28, 1926.

Certain materials are apt to undergo spontaneous change with development of gaseous pressure so that corked or stoppered bottles containing them are liable to burst or to eject the closure violently when it is attempted to open them. This is particularly the case with peroxides, such as hydrogen peroxide, which are stable at normal temperatures but liberate oxygen at higher temperatures, as when in transit across tropical zones or in storage where the temperature is liable to rise.

This invention relates to a closure for receptacles such as bottles containing materials of this kind.

The closure comprises a pad of elastic material, such as rubber, held in place on the mouth of the bottle by a suitable cap which does not fit the bottle in a gas-tight manner; the pad has an incision in it so that it acts in known manner as a valve allowing passage of gas under pressure but closing when the pressure has been relieved.

In the accompanying drawings, Fig. 1 shews a rubber pad in section and in plan. Fig. 2 shews a screw metal cap in elevation, in section and in underside plan. Fig. 3 is a vertical section through a bottle closed in accordance with the invention.

The pad B has an incision C. It is placed in the mouth of the bottle A and is held in place by a screw cap D having a milled periphery F and radial grooves E in its under surface. Gas which escapes through incision C passes away along the grooves in the cap and between the screw threads on the neck of the bottle and in the cap.

Having thus described the nature of my said invention and the best means I know of carrying the same into practical effect, I claim:—

A closure for a bottle to contain material liable to undergo change with development of gaseous pressure and having screw threads on its neck adjacent its mouth, said closure comprising a pad of elastic material having an incision and a cap for holding said pad in place on the bottle mouth, said cap having grooves in its undersurface and also having internal screw threads to engage the screw threads on the bottle neck so that gas from the bottle can escape through the incision in the pad and along the grooves in the cap and pass away between the screw threads.

In testimony whereof I have signed my name to this specification.

ISAAC EPHRAIM WEBER.