

(No Model.)

G. DUSSAU.
BOTTLE STOPPER.

No. 577,844.

Patented Mar. 2, 1897.

FIG. 1

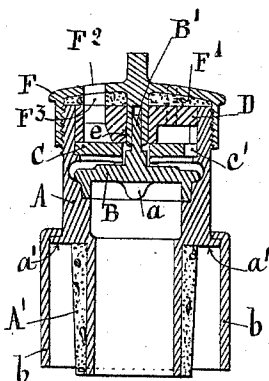


FIG. 2

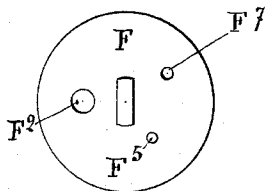


FIG. 3

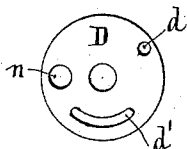


FIG. 4

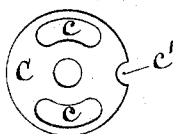
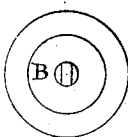


FIG. 5



Witnesses:
W. H. Bunker
C. H. Houchard

Inventor:
Gilbert Dussau,
By Wm. E. Boulter,
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UNITED STATES PATENT OFFICE.

GILBERT DUSSAU, OF TOULOUSE, FRANCE.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 577,844, dated March 2, 1897.

Application filed December 8, 1894. Serial No. 530,970. (No model.) Patented in France September 25, 1893, No. 232,978.

To all whom it may concern:

Be it known that I, GILBERT DUSSAU, a citizen of the French Republic, residing at Toulouse, France, have invented certain new and useful Improvements in Bottle-Stoppers, (for which Letters Patent have been obtained in France, No. 232,978, dated September 25, 1893,) of which the following is a full, clear, and exact description.

My invention relates to stoppers or closing devices for bottles, casks, barrels, &c., and among the objects in view is to provide a construction of stopper or closing device which is adapted to permit of the pouring of the liquid from a bottle, cask, or barrel, but prevent the refilling of the same after a portion or all of the contents have been drawn out.

With the above and other objects in view the invention consists in the novel construction, arrangement, and combination of parts, as hereinafter fully described, illustrated in the drawings, and pointed out in the appended claims.

In the drawings, Figure 1 is a sectional view illustrating my invention. Fig. 2 is a plan view of the cap F. Fig. 3 is a like view of the disk D. Fig. 4 is a like view of the disk C. Fig. 5 is a like view of the valve.

Referring to the drawings, A indicates an annular body portion of the device, provided with a cork lining A', and having a flange a', over which engages a collar or cylindrical section b, and in applying the device to a bottle the neck of the latter seats firmly between the section b and the cork lining. The upper end of the body A is threaded exteriorly and receives a cap F.

Within the body A is seated a valve B, having supporting ears or abutments a, and a flat stem B', which passes upwardly and loosely into a flattened recess e in a central depending extension e' of the cap F. Above the valve and having a central opening for the passage of the valve-stem is a disk C, having liquid-escape openings c, while above disk C is a firmly-seated disk D, and between the upper surface of the latter and the cap is a cork disk F'. The disk C is also provided with a notch c', which is adapted to be brought in line with a perforation d in disk D, while said perforation is adapted to register with a

perforation F' in the cap F, whereby ingress of air to the interior of the bottle may occur during the pouring of the contents of the same.

The disk C is firmly seated upon the stem of the valve, so that when the cap F is turned the disk will be turned simultaneously with the valve until the notch c' will register with the perforation d, and in this position of the parts one of the openings c will register with the opening n of disk D, and the opening F² will also register with the opening n. Thus air will find entrance into the bottle through the alined opening F', opening d, and notch c', while the contents of the bottle will find egress through alined openings c, n, F³, and F².

By reason of the stem of the valve lying loosely within the extension e' said valve will, when the bottle is inverted, or partially so, move off its seat to permit the liquid to find free egress.

To limit the rotation of the cap in each direction, the disk D is provided with a segmental recess d', into which a projection F⁵ on the cap projects.

What I claim is—

1. In a closing device for bottles &c., the combination with a body portion a cap rotatably mounted on said body portion and provided with an air-inlet and a liquid-escape opening, a valve loosely seated within the body portion, a disk arranged above the valve and adapted to be turned, said disk being provided with an air-inlet and a liquid-escape opening, and a second disk arranged immovably above the first disk and provided with an air-inlet, a liquid-escape opening, and a stop or guide opening, and a projection on the rotatable cap projecting within said guide-opening all arranged for coöperation as described.

2. In a closing device for stoppers &c., the combination with a body portion threaded at its upper end and a cork lining surrounding its lower end, of a valve having an upwardly-projecting stem, a disk arranged above the valve and having air-inlet and liquid-escape openings, said disk being firmly mounted on the valve-stem, a second disk arranged immovably above the first disk and provided with air-inlet and liquid-escape openings and

a guide-opening a cap screwing upon the body
portion and having air-inlet and liquid-es-
cape openings, a depending shank having a
socket within which the valve-stem is seated,
5 and a projection engaging within the guide-
opening of the second disk, all arranged for
coöperation as described.

In testimony that I claim the foregoing I
have hereunto set my hand this 24th day of
September, 1894.

GILBERT DUSSAU.

Witnesses:

BISCONS,
MASSONIE.