

G. W. MIDSON.
 BOTTLE FOR HOLDING AERATED DRINKS AND OTHER LIQUIDS.
 APPLICATION FILED FEB. 16, 1910.

1,000,281.

Patented Aug. 8, 1911.

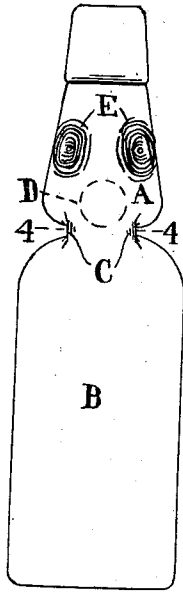


FIG. 1.

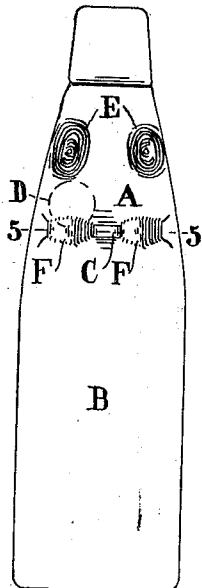


FIG. 2.

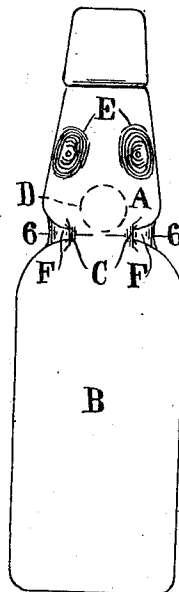


FIG. 3.

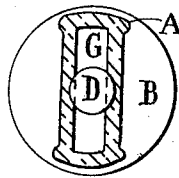


FIG. 4.

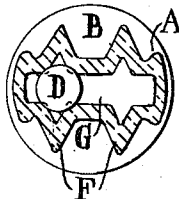


FIG. 5.

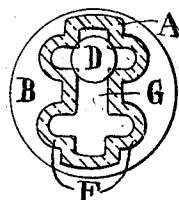


FIG. 6.

Witnesses:-
J. S. [Signature]
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UNITED STATES PATENT OFFICE.

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BOTTLE FOR HOLDING AERATED DRINKS AND OTHER LIQUIDS.

1,000,281.

Specification of Letters Patent.

Patented Aug. 8, 1911.

Application filed February 16, 1910. Serial No. 544,308.

To all whom it may concern:

Be it known that I, GEORGE WILLIAM MIDSON, a subject of the King of Great Britain, residing at Union street, Nundah, near Brisbane, in the State of Queensland, Commonwealth of Australia, have invented certain new and useful Improvements in Bottles for Holding Aerated Drinks and other Liquids; and I do hereby 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.

Various bottles have been designed for holding aerated drinks and other liquids differing one from the other in minor details. That in most common use is what is known in the trade as the "Codd" or four way bottle. These bottles, although they fill the purpose very well have one serious drawback, viz:—they are very liable to break off at the part known in the trade as the gullet, and great loss is entailed thereby. There is another form of bottle on the market but the design is such that in proportion to the bottles blown there are a great number of wasters.

I have therefore, designed a bottle which will overcome these objections.

In carrying out my invention I form the bottle as at present in use but where the bottle is contracted for the purpose of preventing the marble stopper from falling to the bottom I form a number of buttresses.

In manufacturing my bottle it will be found that a larger opening is obtainable at the gullet, thus facilitating the cleaning of the bottle when necessary.

In order that my invention may be fully understood however, I will now describe it with reference to the accompanying drawings, in which,

Figure 1 is a side elevation of what is known in the trade as the "Codd" or four way bottle at present in use. Fig. 2 is a front elevation of my improved bottle. Fig. 3 is a side elevation of same. Fig. 4 is a sectional plan on line 44 of Fig. 1. Fig. 5 is a sectional plan on line 55 Figs. 2 and 3. Fig. 6 is a sectional plan showing an alternative shape of buttress.

In carrying out my invention the bottle is blown and molded in the usual way, but in making the mold this is so formed that, in the molding, the portion of the bottle known

as the gullet is formed with one or more buttresses.

For the sake of comparison and in order that my improvement may be readily understood I illustrate in Figs. 1 and 4, elevation and sectional plan respectively of the well known "Codd" bottle. In this case the gullet A of the bottle B has two transverse contractions or compressions C for the purpose of preventing the marble stopper D from falling to the bottom of the bottle B. Above these contractions C, four small indents E are formed being so placed that should the bottle be turned into either of two positions with the mouth downward the marble D is prevented from closing the latter. On the other hand, should the bottle be turned into either of two positions intermediate to those just mentioned, the marble will be permitted to fall and block the outlet. In some cases only two of such indents as E are used. As before mentioned however these bottles very frequently break off at or about the line 4—4 unless carefully handled; it is estimated by users of the bottle that from 50 to 75 per cent. of the total breakages are at this point. I have therefore designed a means of strengthening the bottle at the gullet and form buttresses F at this part at or near the center of the contractions C. One or more buttresses F may be formed on each side of the gullet A; in the drawings I show two. These buttresses F may be of any form, two alternatives being shown in Figs. 5 and 6. Further the buttresses may be formed solid so as to leave a straight sided opening G as in the old form of bottle (Fig. 4) or the openings G may be formed as in Figs. 5 and 6, or otherwise, care being taken that whatever the form of the opening G the marble stopper D should be prevented from falling to the bottom of the bottle B. The buttresses may be formed vertically or diagonally or otherwise. The indents E would be as heretofore. There are other bottles which are compressed farther up, viz:—on the neck or otherwise weakened; it will be understood therefore that this part can be strengthened as above described.

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I claim is:

A bottle comprising a body portion and a

neck portion forming a gullet, two opposite sides of which comprise a narrow continuation of the outer contour of the body portion and the remaining two sides of which
5 converge inwardly forming deep external transverse depressions, overhung by said body portion and neck portion, and terminating in internal substantially parallel vertical walls forming transverse shoulders
10 forming an elongated opening in the gullet between the neck and the body portion for seating a valve, said depressions being provided with integrally formed buttresses having a large base and converging outwardly

from said shoulders and merging into said neck and said body portion adjacent said narrow continuations and forming therewith buttressed portions at each end of said rectangular opening, forming longitudinal and lateral reinforcements against fracture
20 at the reduced or gullet portion of the bottle, substantially as described.

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

GEORGE WILLIAM MIDSON.

Witnesses:

CHARLES G. BERNAYS,
ALEXANDER ANDERSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
