

# BOTTLE<sup>2</sup>



Alyssa Cardello  
Jason Darrow  
Jen Giudice  
Nick Quattrini  
Robert Dahm  
Joel Vastl

# TABLE OF CONTENTS

2.....	Defenition
2.....	Function
3.....	Parts
3.....	Specifications
3.....	Operation Principal
4.....	Index
5.....	Glossary



# DEFINITION

A drinking bottle with a built in carbonator, which allows you to carbonate any liquid you chose to put in.

# FUNCTION

This product makes it easy to create a carbonated drink out of any beverage whenever you wish. The product comes with a CO2 cartridge that goes into the base of the bottle. With a simple twist of the wrist the top of the co2 canister is punctured infusing the beverage with carbonation and creating an effervescent drink. With this product you can make any liquid you want into a fizzy drink on the go.

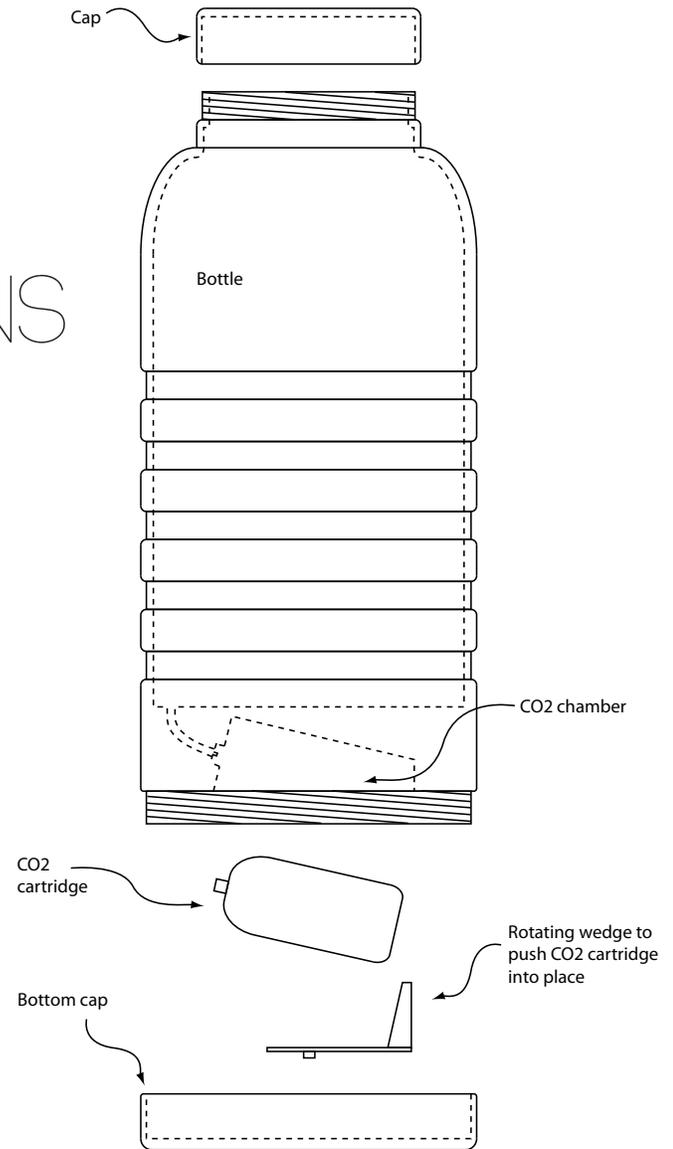


# PARTS

See figure 1 (right)

# SPECIFICATIONS

The Bottle<sup>2</sup> is an injection molded plastic bottle that is used to carbonate beverages anywhere. It is 7" tall, and 3" wide. It has a cap on the top, which takes up 1/2" of its height, and can hold a liter of liquid. The bottle has 3/8" wide ribs spaced 1/4" apart for grip, ending 1.5" inches before the bottom of the bottle. Like the top, the bottom has a 1/2" tall cap allowing access to the CO2 compartment. The parts for this, being all plastic and rubber, allow for our production cost to be \$3 a unit which allows for an MSRP of \$9.99 or allowable headroom for retailer overhead.



**figure 1.**

# OPERATING PRINCIPAL

A liquid is placed in the bottle, and the top cap is shut and sealed. Bottom cap unscrews to allow co2 cartridge to be placed in main shell. A twisting motion of the Bottom shell will cause the CO2 canister to be punctured and release carbonation into the liquid. for re use empty out the base with the used CO2 cartridge in it and replace it with a new one. Rinse and repeat.



# INDEX

## **B**

Bottle 2,3

## **C**

Carbonated,2

Cartridge,2,3

Cost,3

CO2, 2,3

## **D**

Drink,2,3

## **F**

Function,2

Fizzy,2,3

## **L**

Liquid, 2,3

## **M**

MSRP, 3

## **P**

Parts,3

## **S**

Specification,3

## **T**

Twisting,3



# GLOSSARY

## **Carbonator**

Device used to charge a liquid with carbonation

## **CO<sup>2</sup> cartridge**

Small metal containers that hold highly pressurized CO<sub>2</sub> (carbon dioxide) gas

## **Effervescent**

(of a liquid) Giving off bubbles; fizzy.

## **Infusing**

Fill; pervade

## **Injection Molded**

A manufacturing process for producing parts from both thermoplastic and thermosetting plastic materials