

April 21, 1959

A. A. ROBBINS
BEVERAGE COOLING MEANS

2,882,691

Filed June 15, 1956

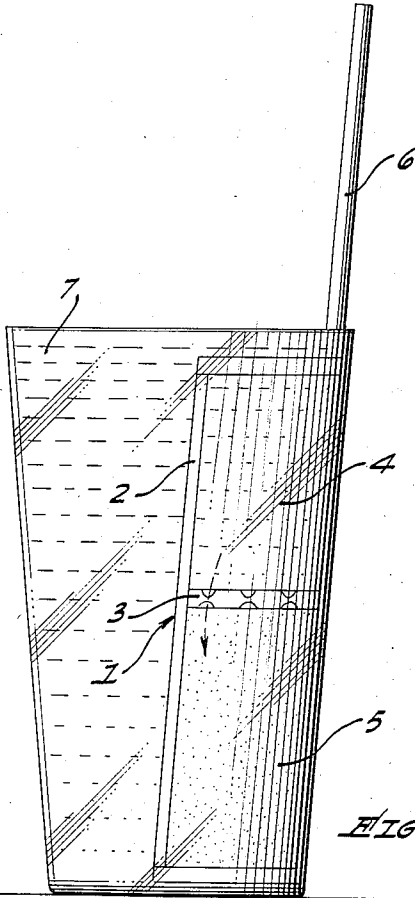


FIG. 1.

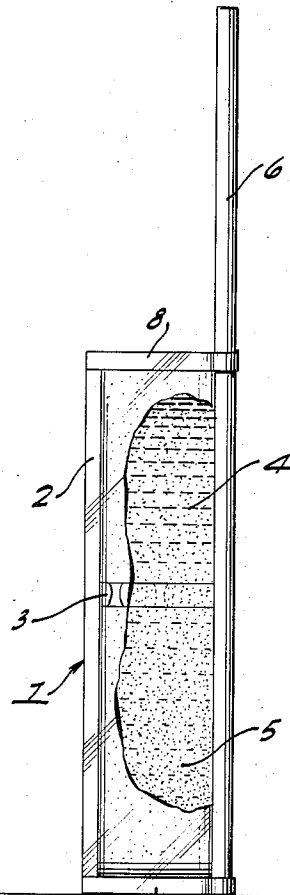


FIG. 2.

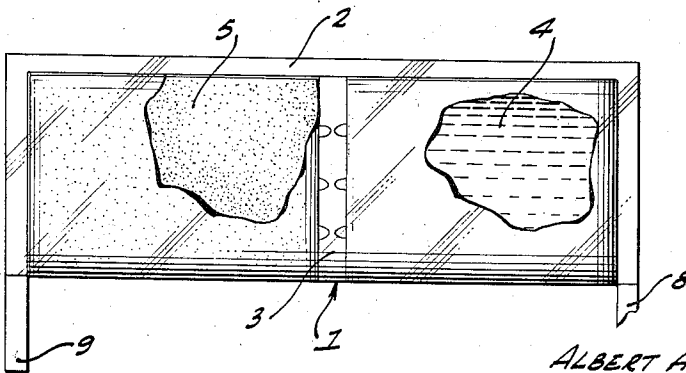


FIG. 3.

INVENTOR.
ALBERT A. ROBBINS,

BY

H. M. Duckman

ATTORNEY.

1

2,882,691

BEVERAGE COOLING MEANS

Albert A. Robbins, West Covina, Calif., assignor, by mesne assignments, to Kwik-Kold of America, Inc., Las Vegas, Nev., a corporation of Nevada

Application June 15, 1956, Serial No. 591,757

2 Claims. (Cl. 62-4)

This invention relates to a beverage cooling means whereby a beverage, when poured into a glass, may be more effectively and completely chilled and cooled to a temperature where the beverage may be more tasty or acceptable.

An object of my invention is to provide a beverage cooling means whereby a carbonated or other beverage may be more rapidly cooled to provide a lower temperature at the time the beverage is consumed.

Another object of my invention is to provide a novel beverage cooling means in which the receptacle or glass in which the beverage is to be consumed can be lowered to a temperature where the beverage will hold air or carbon dioxide and, further, where the beverage will not froth or lose its entrained air or carbon dioxide due to the fact that the beverage itself is maintained at a low temperature.

Still another object of my invention is to achieve the average of a low temperature for the beverage without the presence of ice in the glass or receptacle, and where the beverage is not diluted due to the presence of ice or other like substance.

Another object of my invention is to provide a novel beverage cooling means in which the only heat exchange takes place directly through the walls of the cooling means, these walls being in contact with the beverage, thus providing a rapid and effective transfer of heat from the beverage to the cooling means whereby a low temperature is maintained in the beverage.

Still another object of my invention is to provide a novel beverage cooling means in which the cooling bag or container is mounted on a stick or paddle which can be used for the purpose of stirring the beverage, and also for the purpose of moving the cooling means or container within the beverage.

Other objects, advantages and features of invention may appear from the accompanying drawing, the subjoined detailed description and the appended claims.

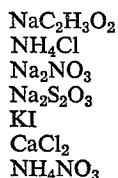
In the drawing:

Figure 1 is a side elevation of my beverage cooling means positioned within a glass.

Figure 2 is a side elevation of the beverage cooling means mounted on a paddle or stirring stick.

Figure 3 is a side elevation of the cooling bag or container separated from its mount on a stirring stick.

It is well known in the chemical art that certain chemicals absorb heat when water is added thereto, this heat being obtained from adjacent bodies by means of conduction, convection, radiation, or possibly all three. These chemical mixtures will be termed freezing mixtures in this specification and may include any of the following chemicals, or many others having the same property. Some of these freezing mixtures have the following formulae:



The addition of water to any of these chemicals will cause a marked reduction in temperature in the surrounding air, or to adjacent articles. Consequently, a

2

package containing any of the freezing mixtures when enclosed in a box, carton, hamper, or container will lower the temperature therein and will maintain a low temperature in foods, liquids, cans, bottles, etc., which are placed within the containers.

In order that the beverage cooling means may be easily transported and, further, that it may be activated to reduce the temperature of adjacent bodies at any time desired, I provide a bag or container 1 which is formed of a plastic sheet material, such as polyethylene, vinyl, or acetate. This plastic sheet material is usual and well known in the industry and the sheets are flexible and are formed of sufficient thickness so that they will not readily tear or break. Furthermore, the plastic sheet is sufficiently dense so that gases will not readily pass through it. By gases is meant ammonia, chlorine, etc. The envelope or bag 1 is preferably formed by heat sealing the edges 2 so that a complete hermetically sealed bag is provided. The edges 2 may have a suitable adhesive placed thereon before sealing, or heat alone may accomplish this sealing result. The envelope 1 is separated by a transverse wall 3 which divides the envelope into two compartments 4 and 5. The wall 3 is so formed that it will separate or release under pressure, thus permitting communication between the compartments 4 and 5 to permit intermingling of the contents of these compartments. The compartment 4 is filled with water and the compartment 5 with a dry chemical freezing mixture which may be one of the mixtures defined above. The separating wall 3 is formed by a controlled heat and pressure so that it will effectively separate the water and the freezing mixture until the package is ready for use, at which time pressure on the water compartment 4 will separate or break the seal 3, thus permitting the water to mingle with the freezing mixture and start the desired chemical action.

In order that the envelope 1 may be more effectively used, I provide a paddle or stick 6 of sufficient length to be inserted in the glass or container 7. The envelope 1 is attached to the stick 6 by means of an upper tape 8 and a lower tape 9 which are attached to the stick 6 by means of a suitable adhesive, or any other suitable manner of attachment.

Having described my invention, I claim:

1. A beverage cooling means including a chemical freezing package, said freezing package comprising an outer sealed envelope, said envelope having a plurality of compartments therein, a dry freezing chemical mixture in one of said compartments, another of said compartments containing a quantity of water, means separably dividing said compartments, a paddle, and means securing said freezing package to the paddle, said attaching means including a tape projecting from said freezing package and secured to the paddle.

2. A beverage cooling means comprising a chemical freezing package, said freezing package including a sealed envelope, said envelope having a plurality of compartments therein, one of said compartments containing a dry freezing chemical mixture, another of said compartments containing a quantity of water, a separable sealing wall extending transversely across said envelope and defining adjacent edges of said compartments, said separable sealing wall being breakable to permit communication between said compartments, a stirring paddle, and tapes on said envelope secured to the stirring paddle whereby the envelope is attached to said paddle.

References Cited in the file of this patent

UNITED STATES PATENTS

1,897,723	Free	Feb. 14, 1933
2,515,840	Rodeck	July 18, 1950