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SNOW MAKING MACHINE HAVING SYRUP DISPENSER

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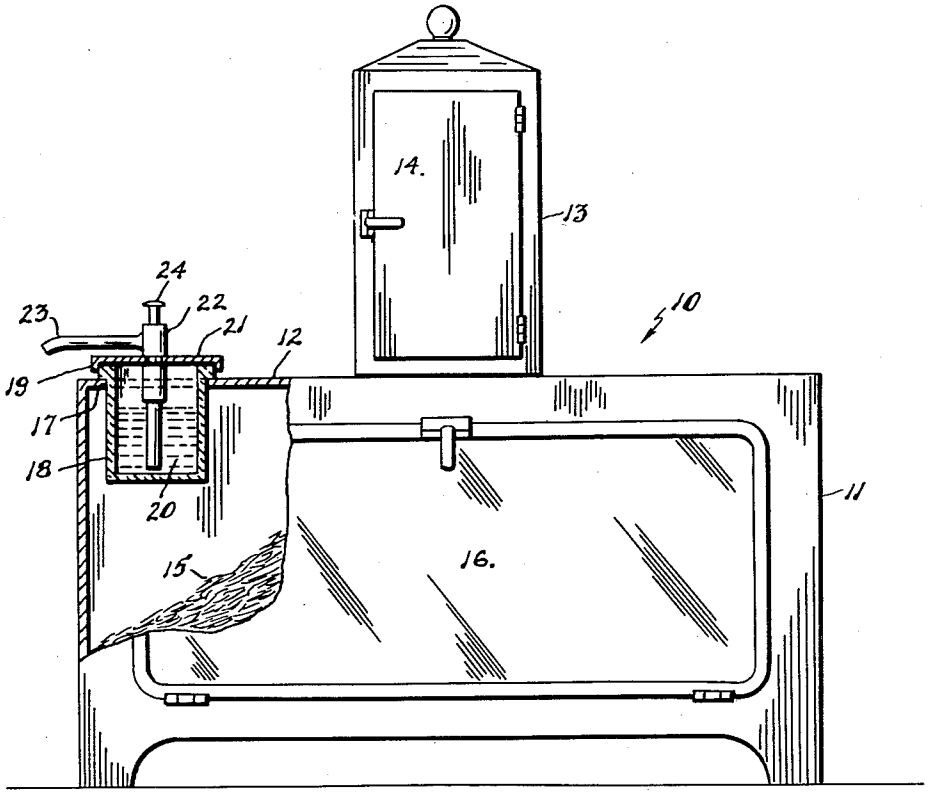


Fig. 1.

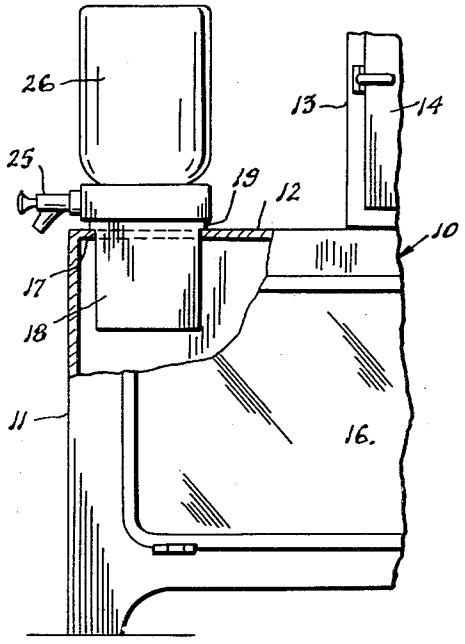


Fig. 2.

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# SNOW MAKING MACHINE HAVING SYRUP DISPENSER

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1 Claim. (Cl. 62—389)

This invention relates to new and useful improvements in so-called snow making machines or ice shaving machines wherein a block of ice is comminuted into thin shavings or snow for use together with flavoring syrup in the making of a confection commonly referred to as a snow cone.

More specifically my invention relates to an apparatus for storing and dispensing ingredients of a "snow cone," including snow and syrup, said apparatus comprising a snow storage compartment provided with a snow dispensing door, and having a top wall portion provided with openings therein, means located above the compartment and communicating with the interior thereof through one of said openings for supplying fresh snow to the compartment to replace snow withdrawn from the compartment, said means including an ice comminuting mechanism, a syrup container including syrup dispensing means removably mounted in said top wall and projecting through a second opening into the snow compartment, whereby the snow in the compartment will automatically cool the syrup in said container, and a removable syrup reservoir disposed externally of the compartment and in an inverted position and communicating with the interior of the syrup container for maintaining a supply of syrup therein.

The principal object of the invention is to embody in such machines a dispensing container for the flavoring syrup, so that both the snow and the syrup are readily and conveniently obtainable from the same machine for placing in a cup or a cone, in the course of making the confection for a customer or consumer.

An important feature of the invention resides in a cooperation of the syrup container with the snow making machine whereby the syrup is kept cool by the snow in the machine, thus avoiding the cost of having and maintaining separate cooling means for the syrup and also avoiding premature melting of the snow in the cone such as occurs when syrup at atmospheric temperature is used.

Some of the advantages of the invention reside in its simplicity of construction, convenient and efficient operation, and in its adaptability for use with snow making machines of different types.

With the above more important objects and features in view and such other objects and features as may become apparent as this specification proceeds, the invention will be understood from the following description taken in conjunction wtih the accompanying drawings, wherein like characters of reference are used to designate like parts, and wherein:

FIGURE 1 is an elevational view, partly in section, of a snow making or ice shaving machine embodying the invention; and

FIGURE 2 is a fragmentary elevational view, similar to that shown in FIGURE 1 but illustrating a modified form of the syrup dispensing container.

Referring now to the accompanying drawings in detail, particularly to FIGURE 1 thereof, the general reference numeral **10** designates a conventional snow making or ice shaving machine which may be of any suitable type and, for illustrative purposes, is shown as being of the general type disclosed in my United States Patents No. 1,700,819, issued February 5, 1929; No. 1,722,031, issued July 23, 1929; No. 2,477,474, issued July 26, 1949; No. 2,852,201, issued September 16, 1958; and No. 2,853,243, issued September 23, 1958. However, it is to be understood that the use of the invention is by no means restricted to the environment of the above enumerated patents and that the invention may be used in snow making or ice shaving machines in general.



The machine **10** as illustrated consists of a housing or compartment **11** having a top wall **12** which carries a substantially centrally disposed receptacle **13** in which a block of ice may be inserted through a suitable door **14**. A power-driven knife assembly (not shown) is provided at the bottom of the receptacle **13** for shaving the underside of the block of ice and thereby comminuting the same into snow which falls through an opening in the top of the cabinet into the housing or compartment **11** and accumulates therein as indicated at **15**. The snow may be removed from the compartment **11** as required, through a suitable door **16** with which the compartment is equipped, as will be readily understood.

In accordance with the invention, the top wall **12** of the receptacle **11** is also provided with an opening **17** to receive a syrup container **18**, the latter being provided at its upper edge with an out-turned flange **19** which is seated on the wall **12** to removably retain the container in position.

It is to be noted that the container **18** is disposed within the receptacle **11** so that the syrup therein, indicated at **20**, is constantly subjected to the cooling effect of the snow **15** in the receptacle **11** and the syrup is thus kept cool without the use and cost of separate cooling equipment.

The container **18** is provided with a suitable, removable cover **21** whereby syrup from the container may be removed, as with a spoon or scoop, as required, for flavoring the snow obtained from the receptacle **11** during the making of a snow cone. If preferred, the cover **21** may be equipped with a suitable dispensing pump **22** of a conventional type, whereby the syrup may be dispensed through a spout **23** by depressing an actuating button **24**.

Alternatively, as shown in FIGURE 2, the syrup container **18** having conventional dispensing means **25**, may be equipped with an inverted syrup reservoir **26** of a substantial volume. This reservoir, being disposed above the top wall **12** and externally of the receptacle **11**, is not materially subjected to a cooling action, but the syrup passing therefrom into the container **18** will be effectively cooled prior to discharge through the dispensing means **25**.

It may be also noted that in any event, the syrup container **18** may be readily removed from the opening **17** of the receptacle **11** for purposes of cleaning and that the association thereof with the machine **10** does not in any way interfere with normal operation of the machine.

While in the foregoing there have been described and shown the preferred embodiments of the invention, various modifications may become apparent to those skilled in the art to which the invention relates. Accordingly, it is not desired to limit the invention to this disclosure, and various modifications may be resorted to, such as may lie within the spirit and scope of the appended claim.

What is claimed as new is:

An apparatus for storing and dispensing ingredients of a "snow cone," including snow and syrup, said apparatus comprising a snow storage compartment provided with a snow dispensing door, and having a top wall portion provided with openings therein, means located above the compartment and communicating with the interior thereof through one of said openings for sup-

plying fresh snow to the compartment to replace snow withdrawn from the compartment, said means including an ice comminuting mechanism, a syrup container including syrup dispensing means removably mounted in said top wall and projecting through a second opening into the snow compartment, whereby the snow in the compartment will automatically cool the syrup in said container, and a removable syrup reservoir disposed externally of the compartment and in an inverted position and communicating with the interior of the syrup container for maintaining a supply of syrup therein.



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