A STEAM ICE CREAM MANUFACTORY.

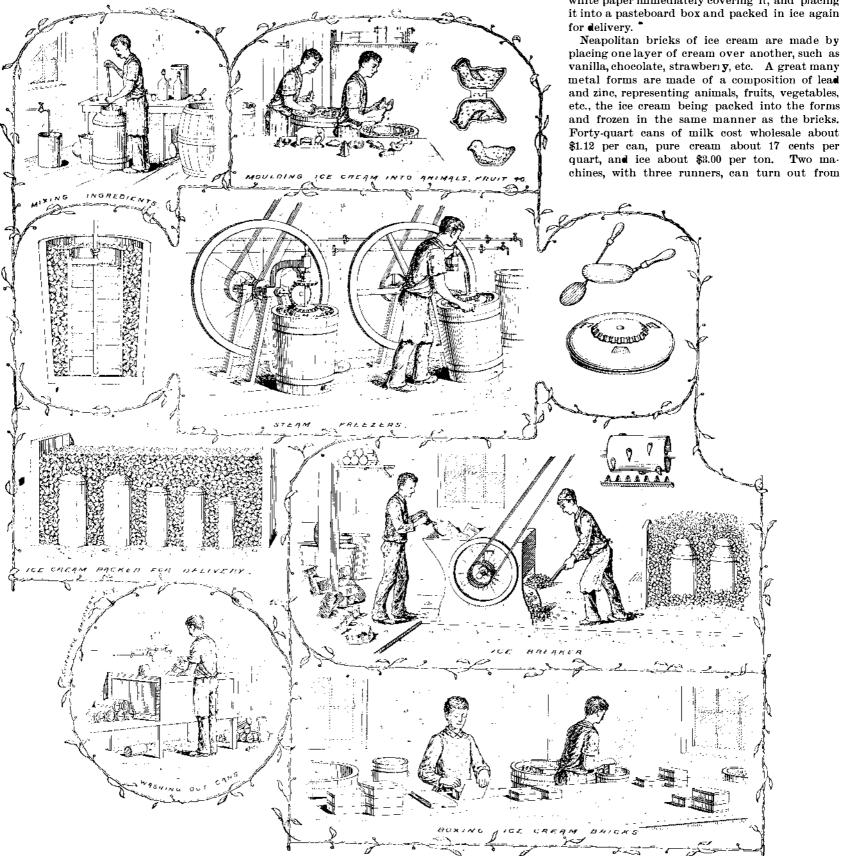
The ice cream now in general use is manufactured which are geared to another attached to the shafting makes about 120 revolutions per minute, crash through from a combination of milk, pure cream and gelatine, of the machine. When the machine is in motion the flavored with different extracts, such as vanilla, lemon, beater, containing ten 1½ inch iron blades, and the strawberry, etc., the ingredients being first mixed up runner revolve around in different directions, maktogether and placed in circular metal vessels or run- ing about 55 revolutions per minute. As soon as the ners which revolve around inside of circular wooden muchine is set in motion, a small quantity of ice and tubs, the runners being surrounded by a quantity of rock salt is added, which is renewed every few mo-shaped forms and a strip of paper placed between the cracked ice and rock salt. Each runner is furnished ments until the tub is filled, taking in all about 25 with a beater having a number of blades which revolve; pounds of ice. The beating operation takes about 12 place, and then they are packed away in salt and ice around on the inside, beating up the material, the ice minutes, the salt and ice gradually freezing the 24 and frozen for about three hours. They are then and rock salt causing it to thicken and form itself into quarts solution, while the gelatine swells or raises the ice cream. Some manufacturers use eggs, corn starch, material up to 40 quarts. The grinding operation is etc., and boil the ingredients before freezing. The completed when the ice cream shows or adheres to the top and bottom covers, after being wiped with a cloth, first process is the mixing together of the ingredients. glass windows in the cover of the runner. The wooden are then taken off, the attendant allowing the loosened About 10 quarts of pure cream, 10 quarts of milk, and tub with the runner of cream is then rolled one side brick of cream to slip out of the form on to a strip of

top of the grinding machine, are two gearing wheels, chine. The teeth of the revolving cylinder, which the ice, breaking it up into small pieces at the rate of a ton in every twenty minutes.

> Ice cream bricks are made by packing the cream into metal forms. These forms have a top and bottom cover. The ice cream is first put into these brickcream and each cover, which holds them firmly in taken out and the forms dipped into a pail of warm water, which loosens the cream from the sides. The

white paper immediately covering it, and placing it into a pasteboard box and packed in ice again

Neapolitan bricks of ice cream are made by placing one layer of cream over another, such as vanilla, chocolate, strawberiy, etc. A great many metal forms are made of a composition of lead and zinc, representing animals, fruits, vegetables, etc., the ice cream being packed into the forms and frozen in the same manner as the bricks. Forty-quart cans of milk cost wholesale about \$1.12 per can, pure cream about 17 cents per quart, and ice about \$3.00 per ton. Two ma-



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about 8 pounds of sugar (granulated) are first mixed and another is put in its place to pass through the 1,500 to 2,000 quarts of ice cream per day. The pint of essence of strawberry is added. A quantity of each, and packed into ice and rock salt for delivery, gelatine dissolved in about a quart of warm water is which is ready in about two or three hours' time. then added to this, bringing the solution up to about 24 quarts in bulk. It is then run through a strainer pounds of chocolate cakes in about one quart of hot or fine sieve into the runner. made of copper, the inside of which is coated with tin, which, after about four weeks' constant running, has to be renewed, the coating of tin being worn off used for a can containing 40 quarts of ice cream. by the working of the beater. The runners are about they revolve are 2 feet 4 inches in height and are about iron teeth about 5 inches in length, which, when the red. The dried fruits while still warm are cut into to the top of the cover of the runner and perpendicular | The cakes of ice, which weigh about 50 pounds each, | liter of ordinary beer.—J. Pikhart, Mahrisch Schoen-

together. If the ice cream is to be flavored with straw- same operation. The ice cream is then taken from the sketches were taken from the plant of George Schmid, berry, about 6 to 8 drops of pure red coloring and 1/4 runners and put into cans ranging from 1 to 10 gallons

Chocolate ice cream is made by dissolving about 11/4 same manner.

For vanilla flavoring about 1/2 pint of the extract is

The machine for breaking up ice consists of a re-23 inches in height and about one foot in diameter, volving cylinder 14 inches in diameter and 20 inches in about 30° C. until they present a brownish color, and and hold about 40 quarts. The wooden tubs in which length, riveted to which are 9 conical shaped wrought the juice of the fruit when the latter is broken is dark 20 inches in diameter on the inside, leaving a space of machine is in motion, pass between a number of other pieces and may be stored or added directly to the about 4 inches for the ice around the runner. Attached teeth connected to the frame-work of the machine, mash in the proportion of about 2.5 kilos to a hectoshaft of the beater, which revolves in a socket at the are first broken into two pieces and placed in the ma- berg, Moravia.

Jersey City, N. J.

Improvement in Beer.

This relates to the application of a preparation of the fruit of the carob tree (Ceratonia siliqua) in brew-The runners are water, which is added to the milk and cream in the ing, with the object of imparting a pleasant aroma and giving greater body to beer; also to mask the vapid, bitter flavor and render the beer better fitted for keeping and more wholesome. The fruits are treated with warm water, and are washed and dried at