

E. N. BREITUNG.
MOLD FOR ARTIFICIAL ICE.
APPLICATION FILED MAY 2, 1911.

1,010,225.

Patented Nov. 28, 1911.

Fig. 1

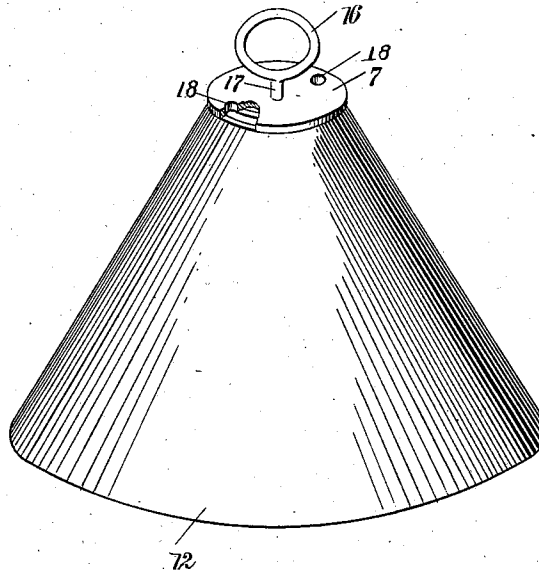


Fig. 3

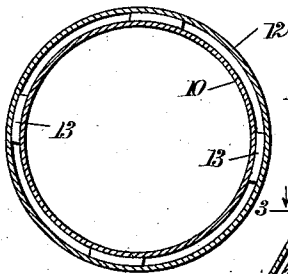


Fig. 2

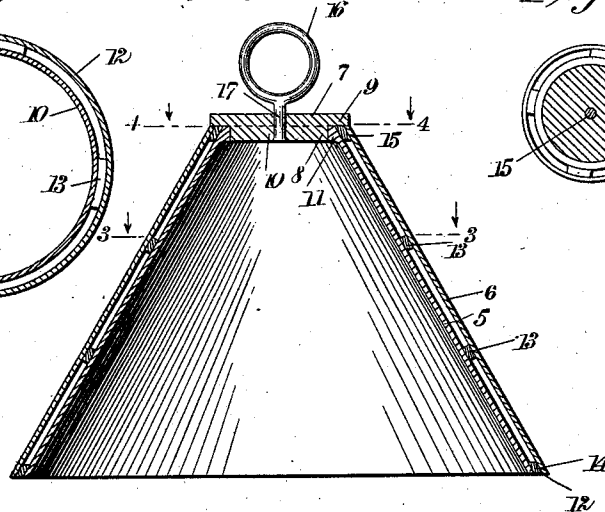
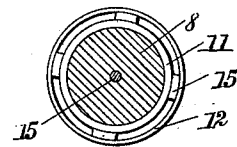


Fig. 4



WITNESSES

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MOLD FOR ARTIFICIAL ICE.

1,010,225.

Specification of Letters Patent.

Patented Nov. 28, 1911.

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To all whom it may concern:

Be it known that I, EDWARD N. BREITUNG, a citizen of the United States, and a resident of Marquette, in the county of Marquette and State of Michigan, have invented a new and Improved Mold for Artificial Ice, of which the following is a full, clear, and exact description.

My invention relates to ice molds, my more particular purpose being to provide an ice mold having double walls and so shaped that when ice is formed within the mold, it may be readily loosened, and thus removed, by pouring hot water into a predetermined part of the mold.

More particularly stated, I provide a mold having generally the form of a cone frustum and provided with inner and outer walls spaced apart and so arranged that hot water may be readily poured in between the walls.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view, partly broken away, showing my improved mold complete; Fig. 2 is a substantially central vertical section through the same; Fig. 3 is a horizontal section on the line 3—3 of Fig. 2, looking in the direction of the arrow; and Fig. 4 is a horizontal section on the line 4—4 of Fig. 2, looking in the direction of the arrow.

An inner wall 5 and an outer wall 6 made of sheet metal and each having generally the form of a cone frustum, are surmounted by a top plate 7 having generally the form of a disk and provided with a reduced portion 8 and with an annular shoulder 9 bounding said reduced portion. The top plate 7 is provided with a substantially central opening 10. The upper edge of the wall 5 is provided with a thickened annular portion 11 which fits neatly around the reduced portion 8 of the top plate 7, and also fits against the shoulder 9. The metallic inner and outer walls 5, 6 are each beveled slightly at 12 so that their edges reach to the same imaginary plane—that is, they come out flush with each other. Spacing blocks 13, 14, 15 each of a general arcuate form, are disposed between the inner and outer walls 5, 6, the spacing blocks 14, 15 being beveled slightly. The upper edges of the spacing

blocks 15 fit neatly against the adjacent annular shoulder 9. An eye 16 is provided with a stem 17 which extends through the opening 10 in the top plate 7 and is headed up from the inside so as to make a firm connection. The top plate 7 is provided with holes 18 which merge into the space between the inner and outer walls 5, 6.

The operation of my device is as follows: The mold is turned into such position that its end of greater diameter is upward. The mold is then filled with water and subjected to intense cold. The water is thus frozen into ice. In order to loosen and remove the ice in the form of a solid cake, the eye 16 is grasped by the fingers, the mold is inverted, and hot water is poured through the holes 18. It finds its way downwardly between the walls 5, 6 and thus heats the entire metallic surface engaging the cake of ice, the heat reaching to the outermost edges of the portion of larger diameter of the ice cake. The water readily makes its escape between the lowermost spacing blocks 14.

I do not limit myself to the precise construction shown, nor to the use of the mold merely for removing ice. The construction and operation of the device may be varied within reasonable limits, without departing from the spirit of my invention.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. In an ice mold, the combination of an inner wall made of metal and having substantially a frusto-conical form, an outer wall made likewise of metal and having a frusto-conical form, spacing blocks disposed between said inner wall and said outer wall, a top plate having a reduced portion engaging said inner wall and having a shoulder in engagement with said outer wall, said top plate having holes which merge into the space between said inner wall and said outer wall.

2. In a mold for artificial ice, the combination of an inner wall made of metal and having a substantially frusto-conical form, said inner wall at its end of smaller diameter having a thickened annular portion, an outer wall made of metal and disposed concentric to said inner wall, spacing blocks disposed between said inner wall and said outer wall, said spacing blocks each having a substantially arcuate form, a top plate

- provided with a reduced circular portion engaging said thickened portion of said inner wall, said top plate being further provided with a shoulder engaging both
- 5 said thickened annular portion of said inner wall and the portion of smallest diameter of said outer wall, said top plate being further provided with holes merging into the space between said inner wall and said outer
- 10 wall.
3. A mold for artificial ice, comprising an inner wall, an outer wall spaced therefrom, a top plate connected with said inner wall and said outer wall and provided with holes
- 15 merging into the space between said inner wall and said outer wall, and an eye provided with a stem extending through said top plate and serving as a handle for lifting the entire device.
- 20 4. In an ice mold, the combination of an inner wall and an outer wall concentric to each other, said inner wall and said outer wall tapering in diameter from one of its ends to the other, spacing blocks disposed between said inner wall and said outer wall, 25 said spacing blocks being separated from each other so as to leave spaces between said walls at the ends thereof, and a top plate connected with both of said walls, said top plate being provided with aper- 30 tures communicating with the spaces between said walls.
- In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.
- EDWARD NICKLAS BREITUNG.
- Witnesses:
WM. A. HAMILTON,
STODDARD HANCOCK.

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