

(No Model.)

A. GEERING.
ICE SHAVER AND SCOOP.

No. 563,763.

Patented July 14, 1896.

Fig. 1.

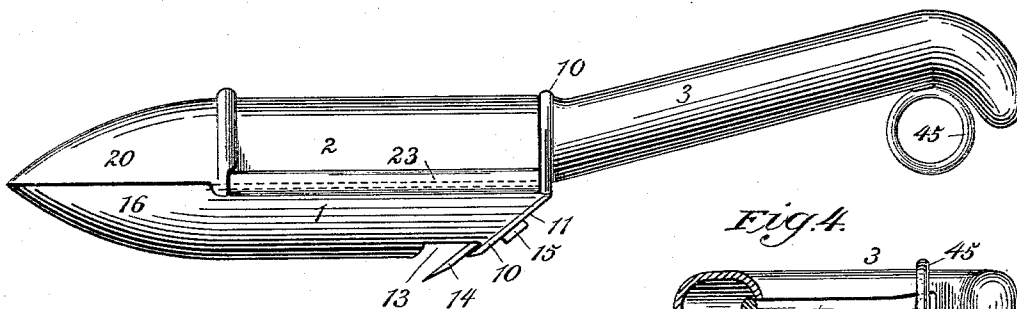


Fig. 4.

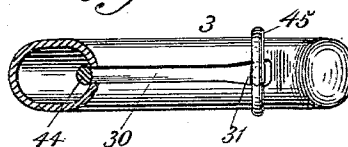


Fig. 2.

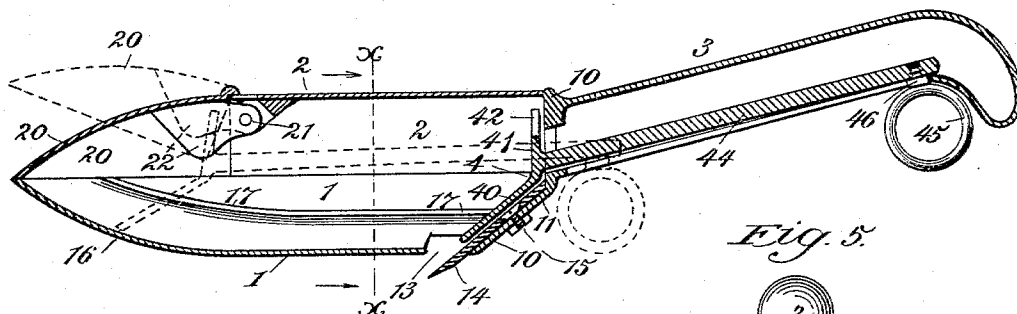


Fig. 5.

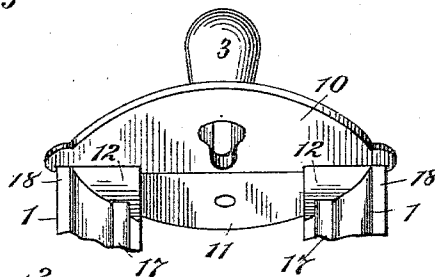
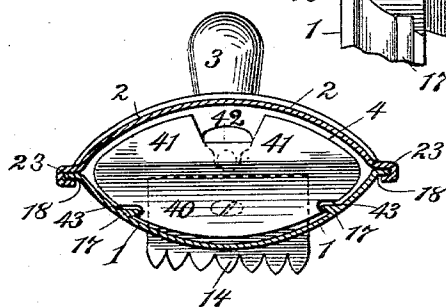


Fig. 3.



WITNESSES:

Edward A. Rowland.
Arthur F. Thompson.

INVENTOR

Adolph Geering.
BY
D. A. Carpenter,
ATTORNEY

UNITED STATES PATENT OFFICE.

ADOLPH GEERING, OF NEW YORK, N. Y.

ICE SHAVER AND SCOOP.

SPECIFICATION forming part of Letters Patent No. 563,763, dated July 14, 1896.

Application filed March 13, 1896. Serial No. 583,006. (No model.)

To all whom it may concern:

Be it known that I, ADOLPH GEERING, of New York city, in the county and State of New York, have invented a certain new and useful Improvement in Ice Shavers and Scoops, of which the following is a full, clear, and exact description, reference being made to the accompanying drawings, forming part of this specification.

This invention relates to improvements in devices by means of which fine particles of ice are shaved from the surface of a block or cake and collected in a receptacle that forms the body of the device; and the invention consists of an ice shaver and scoop comprising in its structure one or more of the particular groups of parts herein described and claimed.

On the accompanying sheet of drawings, Figure 1 is a side view of the exterior of the instrument; Fig. 2, a longitudinal section thereof; Fig. 3, a cross-section in the plane xx , Fig. 2, viewed in the direction indicated by the arrows; Fig. 4, a plan of the outer part of the handle inverted, and Fig. 5 a detail of the interior of the back of the body.

Similar reference-numerals designate like parts in the different views.

The nature of this invention is that of an ice-shaving instrument comprising a hollow body in which the shaved ice is to be collected, and a plunger whereby the mass of fine ice may be conveniently expelled from the body, and having peculiarities of construction that render it convertible into a scoop, and that afford easy access to all parts of the interior of the body whenever the instrument needs cleaning or repairing.

The body is composed of the basin 1 and the cover 2. On the back 10 of the basin is a hollow handle 3. The part 11 of the back 10 is flat and extends forward from the upper part of the back, and the parts 12, on opposite sides of the part 11, project beyond the inner face of that part, as represented in Fig. 3.

In the bottom of the basin, next to the back, is an oblong opening 13. A knife, or toothed cutter, 14 is fastened on the inner face of the back, between the parts 12, by a screw and nut 15, its inner face being flush with the faces of the parts 12, and it projects through the opening 13. The front portion 16 of the basin curves both longitudinally and laterally, re-

sembling a section from the front of a basin of a spoon. The main part of the basin preferably has, at all points between the back 10 and the front portion 16, substantially the shape in cross-section shown in Fig. 3, but obviously the basin may be made either deeper or shallower than it is shown, if desired. On the interior of the sides of the basin are beads 17, which extend from the back 10 parallel to the edges of the basin to the front portion 16, and thence upward to the edges of the basin, these beads being curved near their front ends, as appears in Fig. 2. Along the edges of the basin behind the portion 16 are narrow flanges 18.

The main portion of the cover 2 has almost the same shape in cross-section as has the main part of the basin 1, although its curvature may be greater or less than that shown, and the front section 20 of the cover has substantially the shape of the portion 16 of the basin, and is secured to the main portion by a hinge 21. The hinge is on the under side of the cover, and in front of the hinge is a cam-shaped projection 22 extending below the pivot of the hinge. Along the lateral edges of the main part of the cover are beads 23, in whose inner sides are grooves adapted to receive the flanges 18 on the basin.

When the instrument is in condition for use, the basin and cover are held together by the flanges 18 and grooved beads 23, and bear to each other the relations indicated in Figs. 1 and 2, the rear edge of the cover abutting against the inner face of the back 10, and the front section 20 of the cover forming a lid which rests upon and covers the portion 16 of the basin. The cover may be removed from the basin by sliding it forward until the flanges 18 are disengaged from the grooved beads 23.

In front of the knife 14 is the head 4 of a plunger, whose stem extends through the back 10 into the handle 3. The head 4 fits loosely in the main part of the body, and conforms to the inner surfaces of the upper part and parts 12 of the back and the inner face of the knife, its lower part 40 extending forward from its upper part 41 at an angle the same as that made by the face of the knife with that of the upper part of the back. In the upper edge of this head 4 is a recess 42, and

in its lower edge are notches 43, through which extend the beads 17 on the inner sides of the basin. The edges of the notches 43 extend under the beads, so that the head 4 can not
 5 be lifted off the beads. The head 4 and stem 44 of the plunger may be cast in a single piece. In the handle is a slot 30, and under the handle is a ring 45, or other form of projection, which is connected to the stem of the plunger
 10 through the slot in the handle. The slot 30 is larger at its outer end than elsewhere, as shown at 31 in Fig. 4, and the ring 45 is adapted to turn in the stem of the plunger, and on the ring and between the edges of the slot is an
 15 oblong block 46, fastened to the ring. When the ring is in the position in which it appears in Figs. 1 and 2, the block 46 is lengthwise in the slot 30, and the ring may then be moved forward to the inner end of the slot; but when
 20 the ring is in the position in which it appears in Fig. 4, the block 46 cannot enter the main part of the slot 30, and it then locks the plunger to the handle.

When the plunger is locked to the handle
 25 as described, and the other parts are in the respective positions in which they appear in Fig. 2, the instrument is ready for use. It is held by the handle and pushed repeatedly over the surface of a cake of ice, the knife 14
 30 being in contact therewith. The shaved ice passes into the body through the opening 13, and when the body is nearly full the pressure of the mass against the lid 20 raises the lid, but the lid prevents any of the ice from fall-
 35 ing out over the edges of the portion 16. The mass of shaved ice naturally adheres to the surfaces of the receptacle, and to expel it therefrom the plunger is pushed forward by the ring 45 to the position indicated by dotted
 40 lines in Fig. 2, and the shaved ice is forced by it through the opening between the lid 20 and the lower part of the body into a glass or other vessel, for example, made ready to
 45 receive it. The head 4 of the plunger travels on the beads 17, which constitute guides whereby the lower edge of the head 4 is always kept close to the bottom of the basin. When the head of the plunger reaches the
 50 projection 22 in front of the hinge 21, the head makes contact with that projection in the recess 42 and raises the lid 20, so that any loose ice remaining in front of the plunger may not be prevented by the lid from falling
 55 out of the basin.

The instrument, it will be seen, may be converted into a scoop by removing the cover 2 from the basin 1, and even without the cover it may be used for shaving ice, or the cover may consist of one piece instead of
 60 two hinged together; but in that case it would of course be necessary to remove the cover before the shaved ice could be expelled from the basin.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. An ice-shaving instrument comprising: a basin having an opening 13 in the bottom, a knife or cutter projecting through the opening 13, a handle on the basin, and a plunger
 70 composed of a head within the basin and a stem extending into the handle, the head of the plunger being located in front of the cutter and conforming on the back to the face of the cutter and adapted to make continuous
 75 contact with the cutter across the face of the same and just within the opening 13, whereby any of the shaved ice that enters the basin through that opening is prevented from passing
 80 up between the head of the plunger and back of the basin, substantially as described.

2. An ice-shaving instrument comprising: a basin having an opening 13 in the bottom next to the back and having the back 10 with the lower part 11 extending forward from the
 85 upper part and the parts 12 projecting beyond the inner face of the part 11, a knife or cutter 14 attached to the part 11 of the back and having its face flush with the faces of the parts 12 and projecting through the opening
 90 13, a handle on the back, and a plunger composed of a head 4 within the basin and a stem extending into the handle, the lower part 40 of the head of the plunger conforming to the faces of the cutter and the parts 12 of the
 95 back, and the upper part 41 conforming to the upper part of the back, substantially as described.

3. An ice shaver and scoop comprising: a hollow body having an opening 13 in the bot-
 100 tom and the front section 20 of the top hinged to the main section, a knife or cutter projecting through the opening 13, a handle on the body, and a plunger whereby the contents of the body may be forced against the under
 105 side of the section 20, substantially as described.

4. An ice-shaving instrument comprising: a basin having an opening 13 in the bottom near the back and guides extending from the back
 110 past the ends of the opening 13 to the front part of the basin, a knife or cutter attached to the back and projecting through the opening 13, a handle on the back, and a plunger composed of a head within the basin and a
 115 stem extending into the handle, the head of the plunger having guide-bearings adapted to engage the guides, and these guides and bearings being adapted to resist any upward pressure exerted against the plunger through or in
 120 front of the opening 13, substantially as described.

5. An ice-shaving instrument comprising: a basin 1 having an opening 13 in the bottom and guides 17 extending from the back past
 125 the ends of the opening 13 to the front part of the basin and upward to its edge, a knife or cutter attached to the back and projecting through the opening 13, a handle on the back, and a plunger composed of a head within the
 130 basin and a stem extending into the handle, the head of the plunger having notches 43

therein adapted to engage the guides 17 with the lower edges of the notches extending under the guides, substantially as described.

6. An ice shaver and scoop composed of a basin having its bottom and sides curved in cross-section from one end of the basin to the other and its upturned edges parallel to each other behind the front portion of the basin, and having the front portion 16 curved both laterally and longitudinally and broadest next to the main part of the basin, and having an opening 13 in the bottom, and of a knife projecting through that opening, a handle on the back of the basin, and a removable cover having edges that are parallel to each other and adapted to engage the edges of the basin behind the portion 16, substantially as described.

7. An ice shaver and scoop comprising the basin 1 having the back 10 and front portion 16 and opening 13, a knife fastened in the basin and projecting through the opening 13, a handle 3 on the back 10, and the cover 2 separable from the basin 1 and having in front of the main section the hinged section 20 adapted to cover the portion 16 of the basin, substantially as described.

8. An ice shaver and scoop comprising a hollow body having an opening in the bottom, a knife or cutter projecting through that opening, a handle on the body, and a plunger extending into the handle and adapted to rest behind the front of the opening 13, the top of the body consisting of a cover 2 separable from the lower part and having the front section 20 thereof hinged to the main section, substantially as described.

9. An ice shaver and scoop comprising a hollow body having an opening in the bottom,

a knife or cutter projecting through that opening, a handle on the body, and a plunger extending into the handle and adapted to rest behind the front of the opening 13, the top of the body consisting of a cover 2 separable from the lower part and having the front section 20 thereof hinged to the main section and having on the under side of the front section a projection 22, substantially as described.

10. An ice shaver and scoop comprising the basin 1 having the back 10 and front portion 16 and opening 13, a knife fastened to the back 10 and projecting through the opening 13, a handle 3 on the back 10, the plunger composed of the head 4 within the body and the stem 44 extending into the handle, and the cover 2 separable from the basin 1 and having in front of its main section the hinged section 20 adapted to cover the portion 16 of the basin, substantially as described.

11. An ice shaver and scoop comprising the basin 1 having the back 10 and front portion 16 and opening 13 and guides 17, a knife fastened to the back 10 and projecting through the opening 13, a handle 3 on the back 10, the plunger composed of the head 4 within the body and having notches adapted to receive the guides 17 and of the stem 44 extending into the handle, and the cover separable from the basin 1 and having in front of its main section the hinged section 20 adapted to cover the portion 16 of the basin and having on the under side of the front section a projection 22, substantially as described.

ADOLPH GEERING.

In presence of—

CHAS. COLEMAN MILLER,
ARTHUR F. THOMPSON.