No. 625,201. Patented May 16, 1899.

R. B. PROCTOR.

ICE CRUSHER.

(Application filed Jan. 6, 1899.)

(No Model.)

Fig. 1.

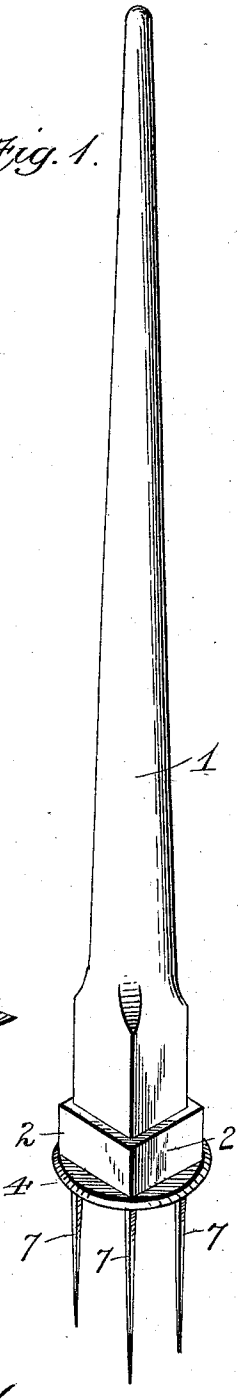


Fig. 2.

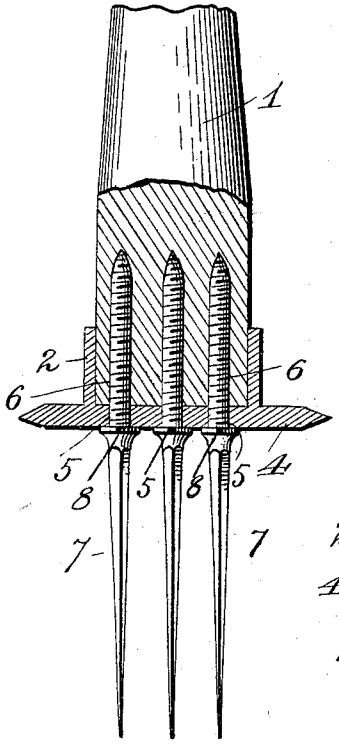
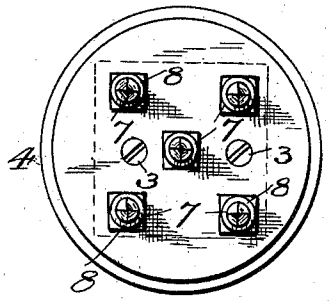


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

RICHARD B. PROCTOR, OF DURHAM, NORTH CAROLINA, ASSIGNOR OF TWO-THIRDS TO CHARLES T. COPLEY, OF SAME PLACE, AND JOHN S. PICKETT, OF NORFOLK, VIRGINIA.

ICE-CRUSHER.

SPECIFICATION forming part of Letters Patent No. 625,201, dated May 16, 1899.

Application filed January 6, 1899. Serial No. 701,385. (No model.)

To all whom it may concern:

Be it known that I, RICHARD B. PROCTOR, a citizen of the United States, residing at Durham, in the county of Durham and State of North Carolina, have invented new and useful Improvements in Ice-Crushers, of which the following is a specification.

My invention relates to ice-crushers for breaking up ice into small pieces or lumps for use in cooling beverages and for other purposes.

The object of the invention is to provide an improved construction of the same whereby I secure important advantages with respect to efficiency in use.

The invention consists in the novel construction and combination of parts hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of an ice-crusher constructed in accordance with my invention. Fig. 2 is a detail longitudinal section on the line *x x*, Fig. 3. Fig. 3 is a bottom plan view.

In the said drawings, the reference-numeral 1 designates a heavy wooden handle of any suitable length and size, squared at the lower end and the upper end rounded, so as to be conveniently grasped by the ends. Fitting on the lower end of this handle is a correspondingly-formed cap 2, provided with a set-screw 3, by which it is securely held in place. Formed integral with this cap is a circular bottom plate 4, the periphery of which projects beyond the sides of the cap for a purpose hereinafter described. This plate is formed with a number of screw-threaded holes 5, which coincide with a number of holes 6 in the handle, which said last-mentioned holes extend some distance above the upper end of the cap. Engaging with these holes are a corresponding number of screw-threaded prongs 7, formed intermediate the ends with angular collars 8, with which a wrench or similar tool is adapted to engage in inserting and removing the same. The outer ends of these prongs are tapered and beveled to a point, so as to be angular in cross-section, the sides forming cutting edges, which materially assist in the operation of crushing the ice. I have shown five of said prongs; but the number is not essential, and they are to be made of the best tempered steel, so as to withstand the rough usage to which they are to be subjected.

In use the handle is grasped by the two hands near the upper end and reciprocated up and down, the prongs striking the ice with considerable force, so that it will be readily and quickly broken up or crushed into small lumps or pieces of a size suitable for the purpose intended. If any of the prongs should be broken, they can be readily removed by engaging a wrench with the angular collar and turning the same. These collars also serve to brace the prongs against the circular bottom plate and prevent them from bending or twisting at such point.

The object of making the bottom plate circular is that the periphery will project beyond the sides of the cap, forming flanges which serve to engage a block of ice in order that it may be pulled toward the operator to be broken by the prongs.

The invention is more especially designed for use in fish-packing houses, restaurants, and ice-cream factories; but it is obvious that it can be used in other places where large quantities of ice are required to be broken up or crushed.

The device should be quite heavy, so that its weight alone will be sufficient to crush the ice without any special effort on the part of the operator.

Having thus fully described my invention, what I claim is—

1. As an improved article, an ice-crusher comprising the handle formed with a series of holes in its lower end, the angular cap fitting on the end of said handle and formed with an integral bottom plate provided with a series of screw-threaded holes coinciding with the holes in the handle, and the screw-threaded prongs engaging said holes having their outer ends formed into beveled points and the sides forming cutting edges and the intermediate collars on said prongs abutting against said bottom plate and made angular and adapted to be engaged by a wrench, substantially as described.

2. In an ice-crusher, the combination with

the handle having a squared lower end and formed with a series of holes, of the angular cap fitting on said squared end formed with a circular bottom plate, the periphery of which projects beyond the sides of said cap, and said plate formed with a number of screw-threaded holes coinciding with the holes in the handle, the screw-threaded prongs engaging said holes and the intermediate angular collars, and the outer ends of said prongs pointed and formed with beveled sides which serve as cutting edges, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

RICHARD B. PROCTOR.

Witnesses:
EMMA M. GILLETT,
BENNETT S. JONES.