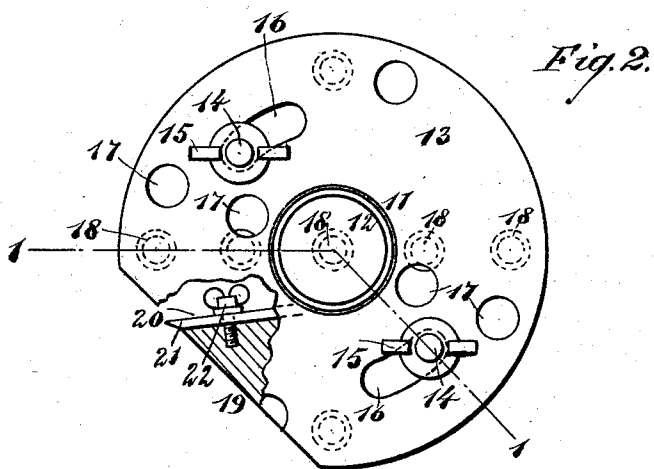
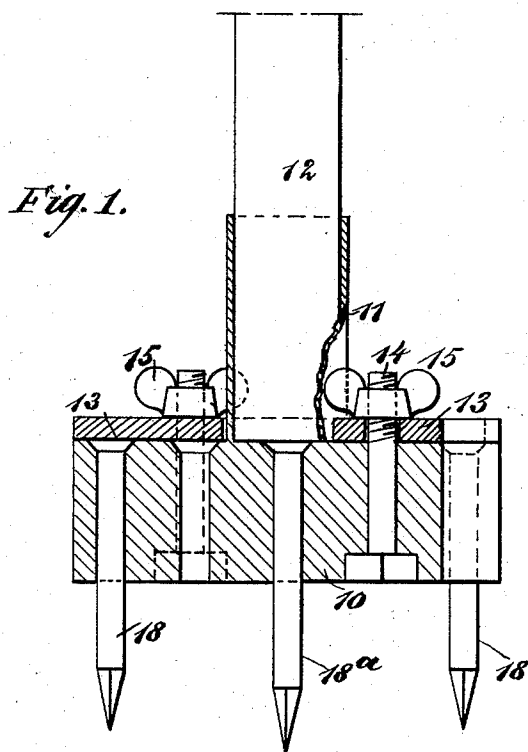


(No Model.)

J. F. LOFTUS & E. B. WILLIAMS.
COMBINATION ICE PICK.

No. 476,052.

Patented May 31, 1892.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JAMES F. LOFTUS AND EBEN BANCROFT WILLIAMS, OF THORNDIKE,
MASSACHUSETTS.

COMBINATION ICE-PICK.

SPECIFICATION forming part of Letters Patent No. 476,052, dated May 31, 1892.

Application filed September 28, 1891. Serial No. 407,024. (No model.)

To all whom it may concern:

Be it known that we, JAMES F. LOFTUS and EBEN BANCROFT WILLIAMS, of Thorndike, in the county of Hampden and State of Massachusetts, have invented a new and Improved Combination Ice-Pick, of which the following is a full, clear, and exact description.

Our invention relates to improvements in ice-picks; and its object is to produce a simple and effective device which may be quickly adjusted so as to break the ice into small pieces, split it, or shave it and which will operate very rapidly when used to perform any work of the character described.

To this end our invention consists in certain features of construction and combinations of parts, which will be hereinafter described and claimed.

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

Figure 1 is a broken vertical section of the tool on the line 1 1 in Fig. 2, and Fig. 2 is a broken plan view of the device.

The pick is provided with a head 10, which has centrally on its upper side a socket 11, adapted to receive a handle 12, and which has fitted to its top surface a plate 13, which plate has a central aperture to allow it to fit on over the handle-socket, and the plate is secured to the head by means of bolts 14 and thumb-nuts 15, the bolts having their heads countersunk in the head of the pick, as shown in Fig. 1. The plate 13 is provided with slots 16, through which the fastening-bolts 14 extend, and these slots permit the plate to be adjusted so as to cover the picks or permit them to be withdrawn through the head, as described below. The plate 13 is also provided with a series of holes 17, adapted to register with the picks 18, which picks project downward through the head 10 and are preferably provided with squared points. The tool is also provided with a middle pick 18^a, which is placed directly beneath the handle 12 and which is somewhat longer than the other picks, and all of the picks have heads, which are countersunk in the top of the main head and which prevent them from dropping through the head. By turning the

plate 13 the holes 17 may be made to register with the picks 18, so that the latter may be withdrawn through the holes, and the plate may also be adjusted so that the heads of the picks will rest against it and the plate will form a secure backing for the picks. Both the head 10 and the plate 13 are flattened on one side, as shown at 19 in Fig. 2, and the head is recessed opposite this flattened portion, as shown at 20, to provide for the fastening of the knife or plane 21, which is bolted to the head by a bolt 22 and which projects tangentially from the flattened portion of the head.

The tool is used as follows: If the ice is to be broken into small pieces, the picks 18 are inserted in the head 10 and held there in the manner described, and the operator then grasps the handle 12 and strikes the picks downward repeatedly upon the ice until it is chopped to the desired degree of fineness. If the ice is to be split, several of the picks 18 are removed and the picks are arranged in line in the head 10, as shown by dotted lines in Fig. 2, and they will then split the ice by forcing them downward upon the same. When the tool is to be used to shave the ice, the flat side 19 of the head is pushed repeatedly downward over one side of the ice, so as to bring the knife 21 in contact therewith.

It will be understood that the tool may be provided with any desired number of picks and that they may be given any desired shape. The tool may be quickly adjusted and it works perfectly for either of the purposes described.

Having thus fully described our invention, we claim as new and desire to secure by Letters Patent—

1. A tool of the character described, comprising a head having a handle thereon, a series of removable picks held in the head, and a movable plate mounted on the head, said plate having holes adapted to register with the picks, substantially as described.

2. A tool of the character described, comprising a head having a handled socket on its upper side, a series of movable picks extending vertically through the head, a movable plate mounted upon the head and having holes to register with the picks, said plates

having, also, slots therein, and fastening-bolts extending through the head and the slots in the plate, substantially as described.

3. A tool of the character described, comprising a head having a suitable handle and
5 having a flattened side and a knife secured within a recess in the flattened side of the

head and extending tangentially therefrom, substantially as described.

JAMES F. LOFTUS.

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Witnesses:

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