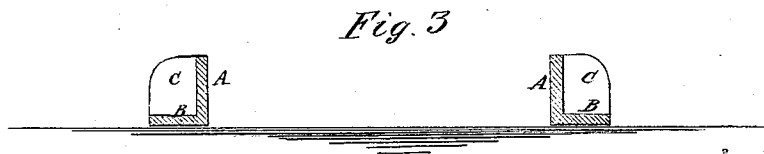
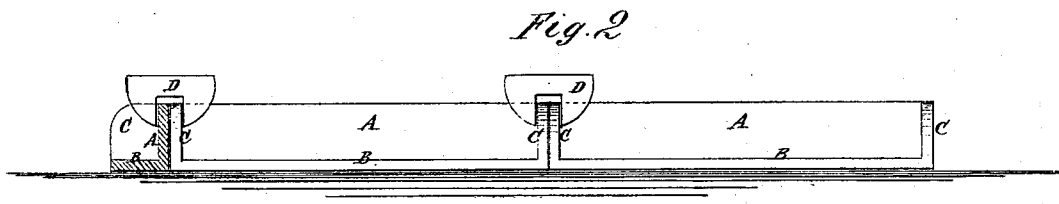
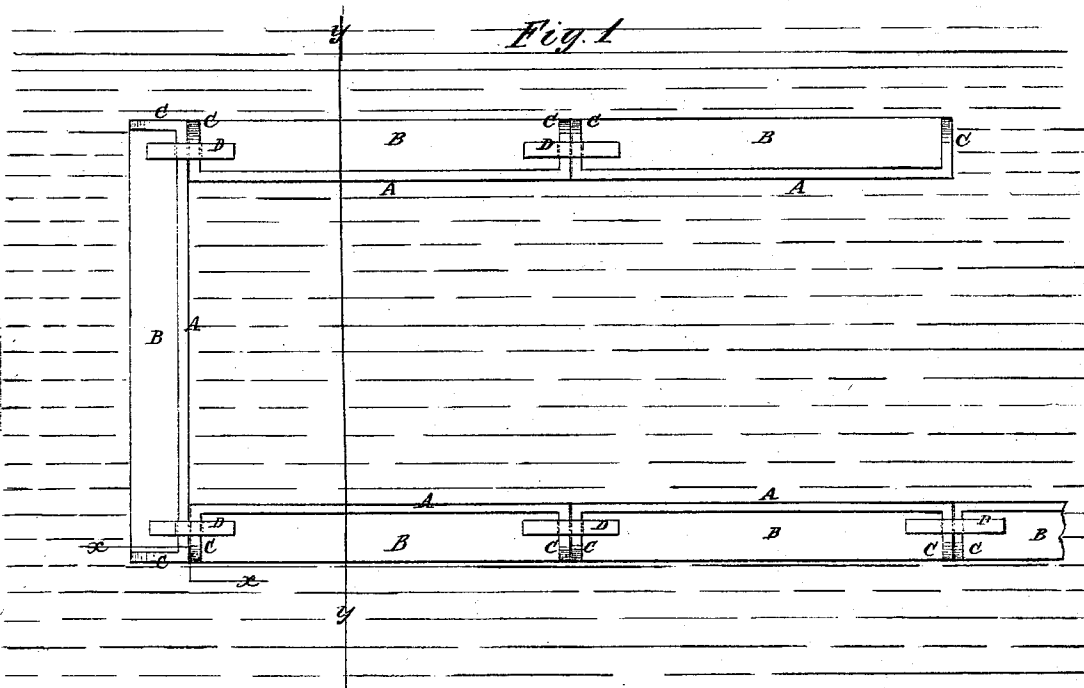


L. TOWNSEND.

Improvement in Ice-Increasers.

No. 126,109.

Patented April 23, 1872.



Witnesses:

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UNITED STATES PATENT OFFICE.

LOUIS TOWNSEND, OF TERRE HAUTE, INDIANA.

IMPROVEMENT IN ICE-INCREASERS.

Specification forming part of Letters Patent No. 126,109, dated April 23, 1872.

Specification describing a new and Improved Ice-Increaser, invented by LOUIS TOWNSEND, of Terre Haute, in the county of Vigo and State of Indiana.

Figure 1 is a detail view illustrating my invention. Fig. 2 is a side view of the same, partly in section through the line *x x*, Fig. 1. Fig. 3 is a detail sectional view of the same taken through the line *y y*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish a simple and convenient device by means of which the thickness of ice in rivers, lakes, ponds, &c., may be readily and rapidly increased; and it consists in the device constructed as hereinafter more fully described.

A B are two planks placed edge to edge, and at right angles with each other, and which are firmly secured to each other. The boards or planks A are strengthened and braced in position by the end pieces C, to which their ends are securely attached, and the projecting corner of which may, for convenience, be rounded off. D D are pieces of boards, in one side of which is formed a notch equal in breadth to twice the thickness of the boards or planks of which the sections A B C are made.

In using the device, as soon as the ice has acquired a sufficient thickness to bear the workman a sufficient number of the sections A B C, to inclose the desired space, are placed end to end and secured to each other by the notched key or lock-boards D, which are forced

down upon the adjacent end boards C, as shown in Figs. 1 and 2. In turning a corner the side board A of one section is placed against the end board C of the other section and they are locked together by one of the lock-boards D, as shown in Figs. 1 and 2. The edges or lower parts of the sections, when arranged, are wet with water from a watering-pot, or otherwise, which freezes them to the ice. A hole is then cut into the ice upon the outside of the inclosed space, into which a pump is inserted, and sufficient water is pumped into the inclosed space to fill it to the depth of one, two, or three inches. The inclosed water being spread out into a thin sheet upon an ice surface, and being exposed to the cold air, speedily freezes into a solid mass. Another layer of water may then be pumped onto it, and so on until ice of the desired thickness has been formed. The sections A B C are then removed and the ice is sawn into blocks and taken out in the ordinary manner.

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

The sections A B C and lock or key-boards D, constructed substantially as herein shown and described, to adapt them for use as and for the purpose set forth.

LOUIS TOWNSEND.

Witnesses:

JAMES T. GRAHAM,
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