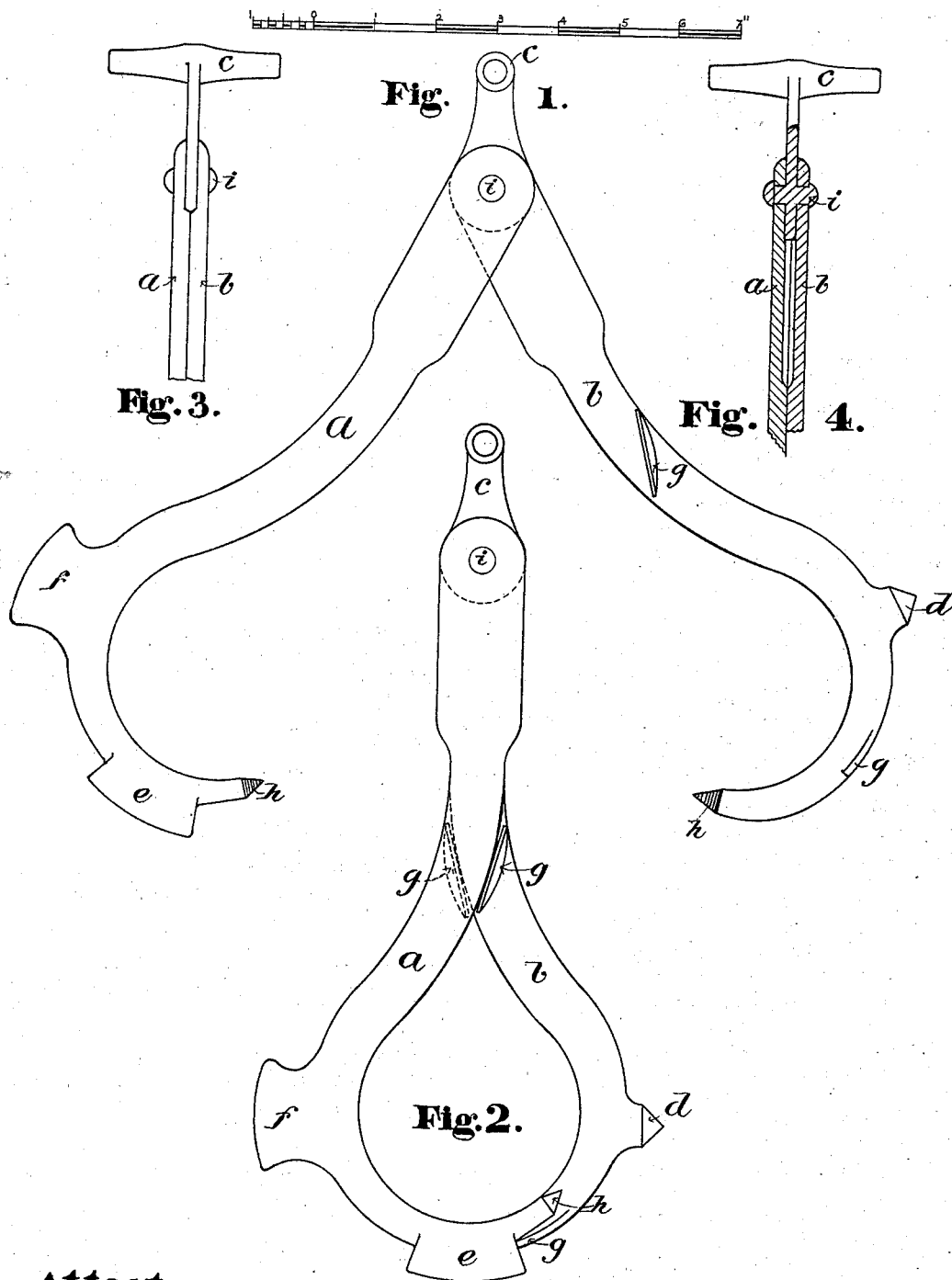


D. N. B. COFFIN.
Ice-Implement.

No. 216,310.

Patented June 10, 1879.



Attest.
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UNITED STATES PATENT OFFICE.

DAVID N. B. COFFIN, OF NEWTON CENTRE, MASSACHUSETTS.

IMPROVEMENT IN ICE IMPLEMENTS.

Specification forming part of Letters Patent No. **216,310**, dated June 10, 1879; application filed November 1, 1878.

To all whom it may concern:

Be it known that I, DAVID N. B. COFFIN, of Newton Centre, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Ice Implements, of which the following is a full and exact description, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Figure 1 is a side view or projection, illustrating a pair of ice hooks or tongs open as in grasping a cake of ice, one of the hooks being constructed with a hook, a hatchet, and a chisel or scraper, all in one, the other with a hook and pick in one piece, and a handle and hinge for lifting the ice, this handle serving also as a small hammer for breaking small pieces of ice in the hand. Fig. 2 represents the same closed as when the several other tools than the hooks are used. Fig. 3 is an edge view of the handle end of the implement. Fig. 4 is a sectional view of the same.

The nature of the invention relates to the combination, in the manner described, of the several tools, and their construction, in one compact, convenient, useful, and economical implement, as herein described.

The hooks *a* and *b* are hinged together by riveting (or a screw and nut or nuts, if preferred) at *i*. A handle, *c*, is hinged also at the same point to the two hooks. Stops *g g g* come into action on closing the instrument, and give it solidity when used as a hatchet, a pick, a chisel, &c.

In Fig. 2, where the instrument is closed, the curved parts of the hooks carry the hatchet *f*, and form part of its head and the necessary weight; same also of the pick *d* and chisel *e*.

The upper or enlarged part of the hooks, near and at the hinge at *i*, serves, when the instrument is closed, as a suitable handle for hatchet, pick, and chisel, and the part *c*, which

may be used as a hammer, to break small pieces of ice. Part *c* is also the suspending-handle for the hooks in handling ice.

The whole may be made of iron or steel, or any suitable material; but the most suitable and economical material is probably malleable iron, of which the whole may be cast, so as to require no machine-work more than to head up the ends of the starts at *i*, which, in such case, are cast on the suspending-handle *c*.

I claim—

1. The arrangement of the hatchet *f* upon the curved hook, in combination with the stop or stops *g* and hinge at *i*, substantially as described.

2. The arrangement of the pick *d* upon the curved hook, in combination with the stop or stops *g* and hinge at *i*, substantially as described.

3. The arrangement of the chisel *e* upon the hook, in combination with the stop or stops *g* and hinge at *i*, substantially as described.

4. The arrangement and combination of the hatchet *f*, the pick *d*, and the chisel *e* upon and in combination with the curved hooks, substantially as and for the purposes set forth.

5. The suspension-piece *c*, arranged between the hinged ends of the hooks, with starts cast on or riveted through with either rivet-heads or screw-nuts, substantially as described.

6. The complete implement, when constructed with the two hooks, carrying on the hook ends the hatchet *f*, chisel *e*, pick *d*, and having the stop or stops *g* and handle *c*, hinged to the end opposite the hook ends, and between the enlarged handle parts of the hooks, the whole being constructed, arranged, and combined substantially as described.

D. N. B. COFFIN.

Witnesses:

JAMES A. BUTLER,
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