J. B. Sweetland,

Grapple.

No. 79,159. Patented June 23, 1868.

Fig. 1

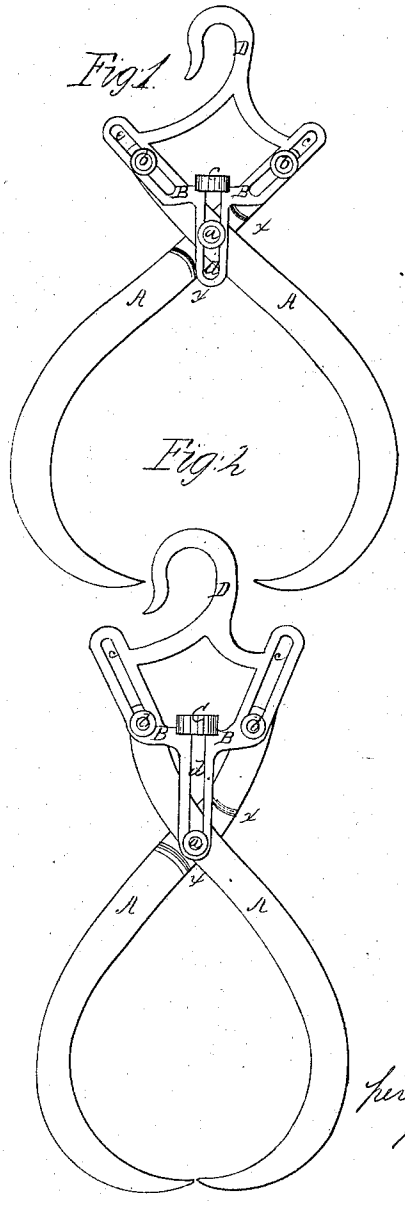


Fig. 2

Witnesses.

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Leopold Eurich

Inventor:

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per Alexander Thomson

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United States Patent Office.

JEROME B. SWEETLAND, OF PONTIAC, MICHIGAN.

Letters Patent No. 79,159, *dated June* 23, 1868.

IMPROVEMENT IN HOOKS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JEROME B. SWEETLAND, of the city of Pontiac, in the county of Oakland; and in the State of Michigan, have invented certain new and useful Improvements in Hooks; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in the general arrangement of a rafter-hook, so constructed that in putting it together there will be no holes to drill nor rivets to put in, the hooks being cast with holes and rivets in them, and in the construction and application of a triangular slotted plate with a hook attached to the same.

In order to enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation.

In the annexed drawings, forming part of this specification—

A A represent the two hooks, one of which is cast with a recess or chamber on its front to admit the other hook, so that when put together the face side will be even.

A pin, *a*, is cast in the centre of the chamber, which fits into a hole on the other hook, by which means the hooks are put together.

The upper ends of the hooks are also provided with pins or rivets, *b b*, cast into them.

B represents a triangular slotted plate, which has two side slots, *c c*, and one centre slot, *d*, which latter, however, is below the side slots.

These slots fit over the three pins on the hooks A A, which are then riveted down, so that the plate B will slide up and down on the hooks, thereby opening or closing the same.

On top of the plate B is a hook, D, to pass a rope over or to hold it by when used as an ice-hook.

x x represent the chamber formed in the hook A.

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

1. The hooks A A, when cast with a chamber and with pins, *a* and *b b*, substantially as and for the purposes herein set forth.

2. The triangular plate B, provided with hook D and slots *c c* and *d*, substantially as and for the purposes herein set forth.

3. The combination of the hooks A A, triangular slotted plate B, ring C, and hook D, constructed and operating substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand, this 13th day of May, 1868.

JEROME B. SWEETLAND.

Witnesses:

G. X. M. COLLIER,

A. W. BURTT.