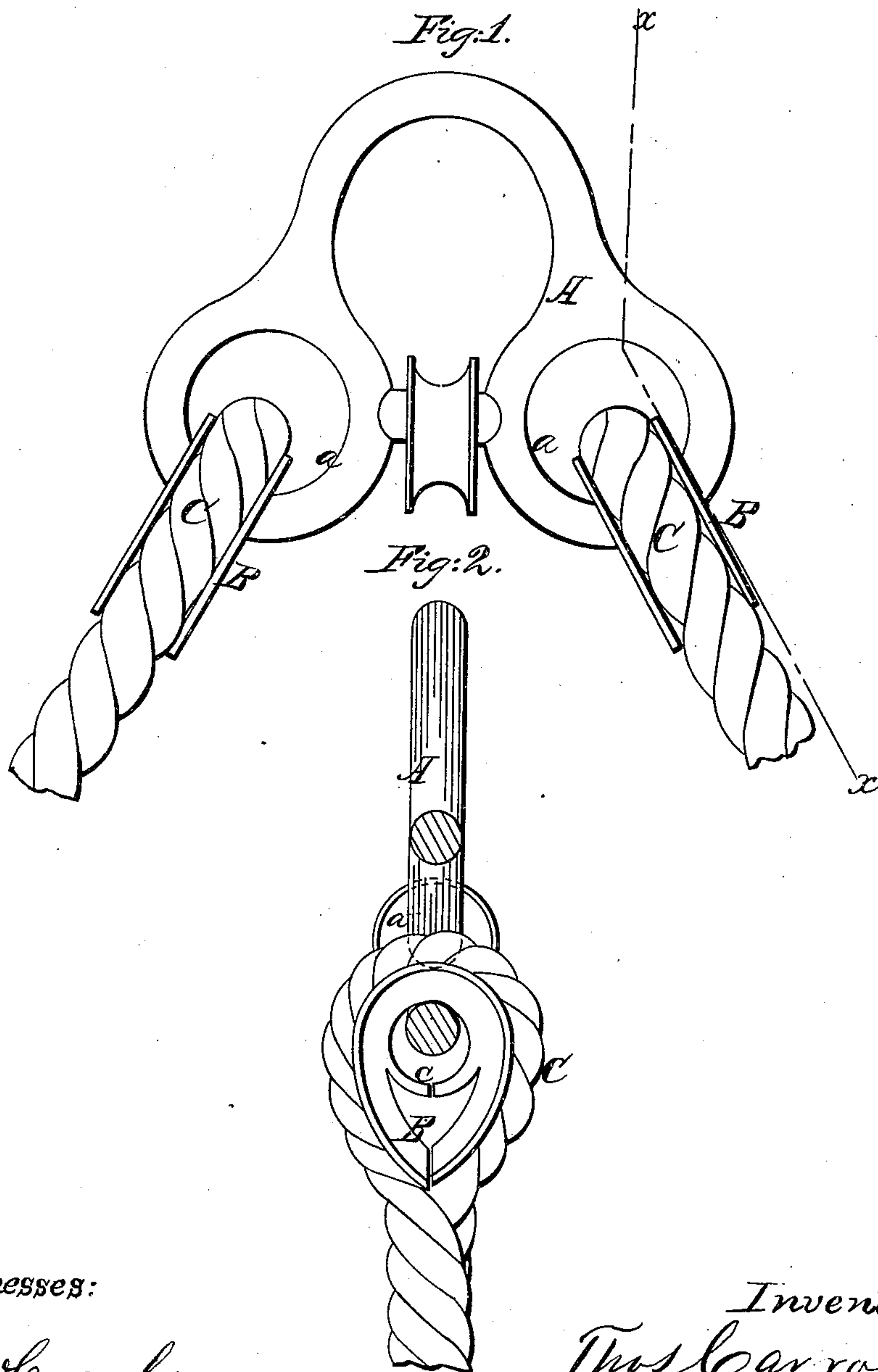


*T. Carroll,
Clew Thimble.*

N^o 42,817.

Patented May 17, 1864.



Witnesses:

*J. W. Coombs
Geo. W. Reed*

Inventor:

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UNITED STATES PATENT OFFICE.

THOMAS CARROLL, OF MIDDLETOWN, CONNECTICUT, ASSIGNOR TO W. W. WILCOX AND JOSEPH HALL, JR., OF SAME PLACE.

IMPROVED CLEW-THIMBLE.

Specification forming part of Letters Patent No. 42,817, dated May 17, 1864.

To all whom it may concern:

Be it known that I, THOMAS CARROLL, of Middletown, in the county of Middlesex and State of Connecticut, have invented a new and useful Improvement in Clew-Thimbles; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a front elevation of a clew provided with thimbles made according to my invention. Fig. 2 is a transverse vertical section of the same, taken in the plane indicated by the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts in the several figures.

This invention consists in the arrangement of a ring or guard in the interior of the clew-thimble to fit loosely over the body of the clew in such a manner that the thimble is confined on the clew sufficiently close to prevent the rope from chafing against the upper portion of the ring to which it is attached without changing the relative size of the clew and thimble.

To enable others skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents a clew, made of wrought or malleable iron in the usual manner and shape. It is provided with one or more rings, *a*, to receive the thimbles B. These thimbles are cast or otherwise produced in the shape of an egg, as clearly shown in Fig. 2, and they have to be made of some length, to allow of fastening the ropes *C* to them. If they should be made round and small, just large enough to fit the rings *a*, the rope could not conveniently be fastened to them, because it would be im-

possible to give it so short a turn. By making the thimbles oblong, however, another difficulty arises—viz., the rope is liable to chafe against the latch of the ring to which the thimble is attached. In order to counteract this chafing action, it has become necessary to cover the rope with leather, or to protect it by other material; but it is obvious that such a protection is only temporary, and has to be replaced at short intervals. This difficulty I have overcome by the simple addition of a ring or guard, *c*, which is secured to the interior of the thimble B. This guard may be cast with or otherwise attached to the thimble, and if made in the form shown in Fig. 2 of the drawings it is made to fit the body of the clew loosely and still so that it confines the thimble and prevents the rope passing over the same from chafing against the upper part of the ring *a* of the clew. Instead of giving to the guard *c* a circular form, however, a simple pin might be passed through the thimble at such a distance below the body of the clew as to leave to said thimble the required freedom of motion and still confine it sufficiently to prevent the rope from coming in contact with the upper part of the ring.

By this simple attachment, the rope passing over the clew-thimble can be used entirely without a protecting cover, and much labor and expense is saved.

What I claim as new, and desire to secure by Letters Patent, is—

The combination of a guard, *c*, with the interior of a clew-thimble, substantially as and for the purposes set forth.

THOMAS CARROLL.

Witnesses:

JOS. E. LATHROP,

CHAS. D. LOVELAND.