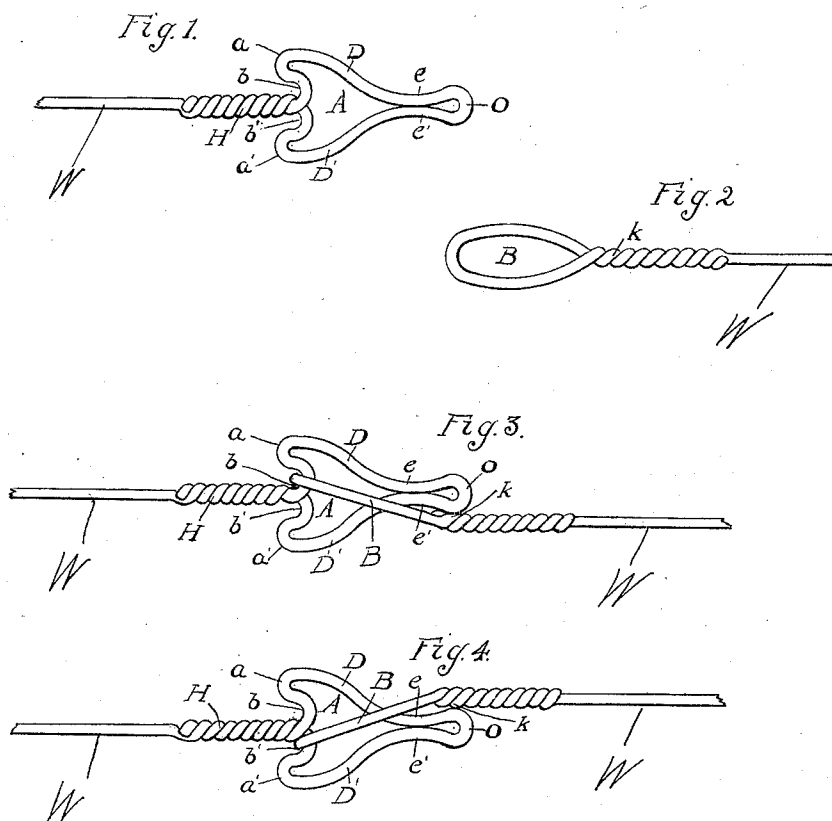


(No Model.)

A. S. ROBINSON.
BALE TIE.

No. 468,467.

Patented Feb. 9, 1892.



Witnesses,
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ALBERT S. ROBINSON, OF ALBANY, NEW YORK.

BALE-TIE.

SPECIFICATION forming part of Letters Patent No. 468,467, dated February 9, 1892.

Application filed July 11, 1890. Serial No. 358,438. (No model.)

To all whom it may concern:

Be it known that I, ALBERT S. ROBINSON, of Albany, county of Albany, and State of New York, have invented a new and useful Improvement in Bale-Ties, of which the following is a specification.

My invention relates to wire bale-ties having with one end a loop and with the opposite end a catching device of novel form of construction for engagement with said loop; and it consists of a bale-tie embodying the elements hereinafter particularly described, and specifically set forth in the claims.

The object of my invention is to provide in a bale-tie made from a single piece of wire a catching device having two oppositely-located hooks, which project laterally in opposite directions from the twisted neck with which they are integral, and are supported each by the brace of the other, coacting with its own brace made with a similar angle of inclination. I attain these objects by the means illustrated in the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a view of my dual-hooked head in this improved bale-tie. Fig. 2 is a view of the loop employed with the same. Fig. 3 is a view of one of the hooks of my dual-hooked head in engagement with the coacting loop, and illustrating also the manner in which the two braces of my improved catching-head operate for strengthening the said hook. Fig. 4 is a view illustrating the loop in engagement with the opposite one of the dual hooks of the catching-head and the action of the two braces of the same.

The same letters of reference refer to like parts throughout the several views.

In the drawings W W is the wire piece from which my improved bale-tie is made, so as to include the body of the strand or piece which forms the band, and the loop made connected with one end of the same and the catching device made with the opposite end.

Though the continuity of this piece of wire W is not shown in the drawings, yet it is to be understood that the said wire is continuous throughout, and the loop and catching device are both integral with the said body of the tie.

In this tie A is the dual-hooked head, which forms the catching device for engaging with the loop B, which latter is made with the form usually employed by the trade for receiving the engaging-hook.

The dual-hooked head A is composed of the two hooks *a a'*, each having its concave or hollow *b b'*, respectively, neighboring the twisted neck of the said head, as shown, and the inclined or angularly-arranged braces D D' integral with each other and the said hooks *a a'*, as shown. In this dual-hooked head A the said braces D-D' connect with each other by the rounded terminal *o* of the said head, and connect with the respective hooks *a a'* at their rounded noses, as shown. This rounded terminal *o* of this head is made substantially in a line with the axis of the twisted neck of said head and relatively central between the hooks *a a'*, which latter are extended laterally from said twisted neck and are in situation relatively opposite each other in this catching-head, as shown.

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

A wire bale-tie having a loop B at one end and the dual-hooked head A at the other end, said head being stiffened in its connection with the body of the tie by a twisted neck and provided with two hooks *a* and *a'*, which are extended laterally in opposite directions from the axial line of said head and neck, and each having a brace which extends forward and unites in a rounded terminal *o*, substantially as shown and described.

ALBERT S. ROBINSON.

Witnesses:

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