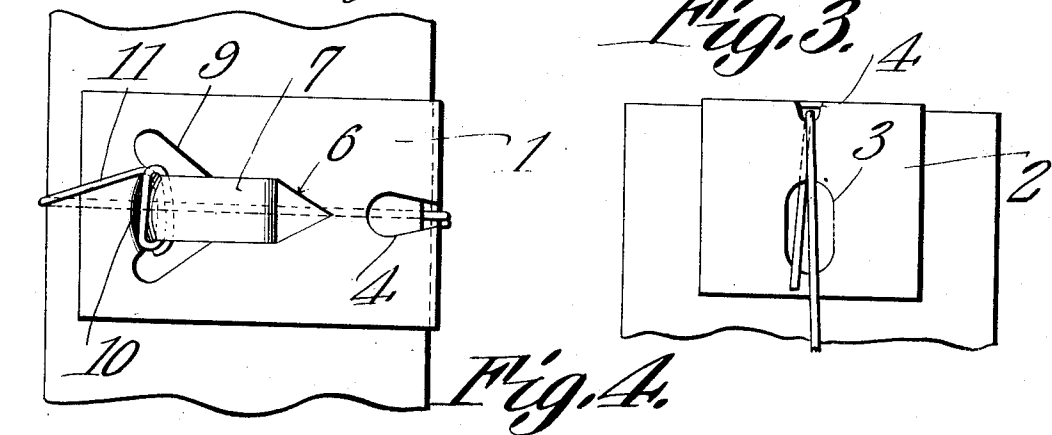
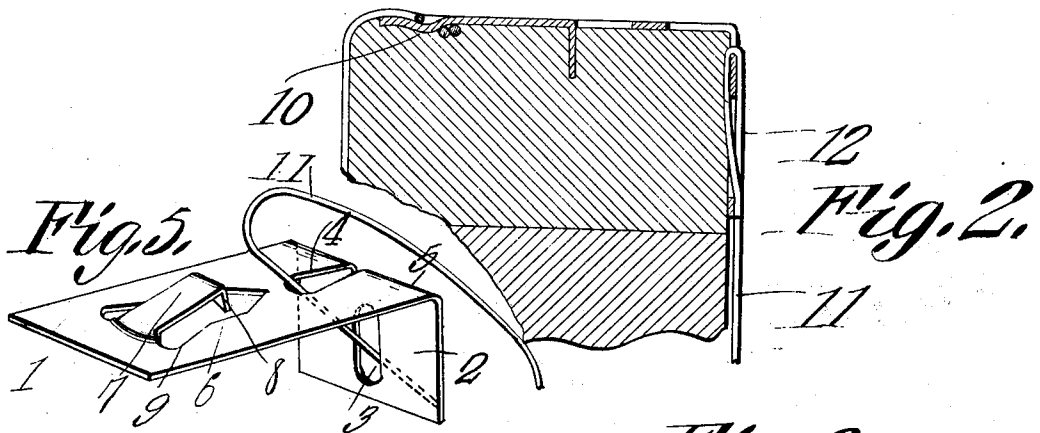
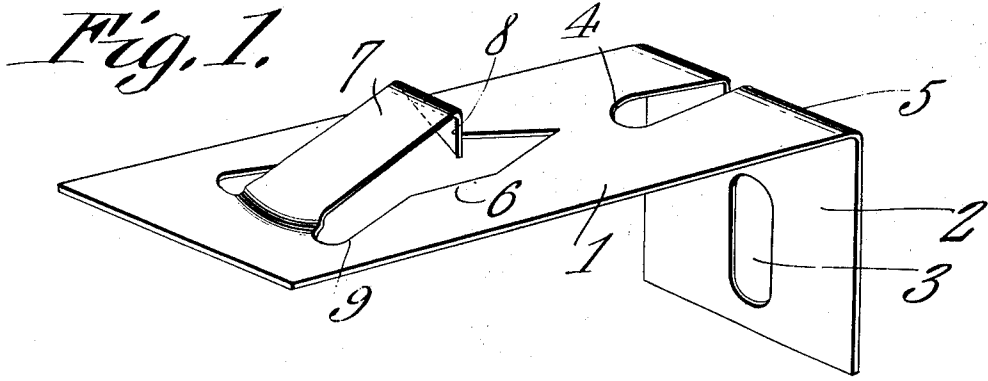


J. L. EVANS.  
BUCKLE FOR BALE TIES.  
APPLICATION FILED AUG. 23, 1909.

1,034,004.

Patented July 30, 1912.



Witnesses  
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# UNITED STATES PATENT OFFICE.

JOHN L. EVANS, OF COLUMBUS, OHIO, ASSIGNOR TO BALING TIE BUCKLE CO., OF CLEVELAND, OHIO.

## BUCKLE FOR BALE-TIES.

1,034,004.

Specification of Letters Patent.

Patented July 30, 1912.

Application filed August 23, 1909. Serial No. 514,247.

*To all whom it may concern:*

Be it known that I, JOHN L. EVANS, a citizen of the United States; residing at Columbus, in the county of Franklin and State of Ohio, have invented a new and useful Buckle for Bale-Ties, of which the following is a specification.

This invention relates to bale tie buckles for use in connection with ties such as are employed for holding together bales or bundles of flooring, box shooks, shingles, veneers, laths, staves, pickets, bed slats, export lumber, and all other kinds of lumber and lumber products. The buckle can also be used in connection with round or flat wires or crate strappings for sealing packages or boxes of merchandise and so forth to prevent them from being opened without detection.

One of the objects of the invention is to provide a buckle formed in a single piece of metal and having an integral retaining tongue provided with a spur designed to be driven into the material constituting the bale or package, the point of the spur, before use, being arranged between the walls of the slot produced in forming the tongue.

Another object is to provide improved means whereby one end of the tie can be attached to the buckle without danger of slipping after the parts have been tightened.

With these and other objects in view the invention consists in certain novel details of construction and the combinations of parts hereinafter more fully described and pointed out in the claims.

In the accompanying drawings, the preferred form of the invention has been shown.

In said drawings: Figure 1 is a perspective view of a tie buckle embodying the present improvement. Fig. 2 is a central longitudinal section therethrough and through a portion of a bale engaged thereby, the tie being shown partly in elevation and partly in section. Fig. 3 is a plan view of the buckle and the tie engaging the same, the said buckle and tie being as shown applied to a bale. Fig. 4 is an end elevation of the parts shown in Fig. 3. Fig. 5 is a view showing one of the positions of an end portion of a tie while being inserted into engagement with the buckle prior to the application of the buckle and tie to a bale,

Referring to the figures by characters of reference, 1 designates a metal plate having one end bent at right angles thereto as indicated at 2 and provided with an elongated slot 3. Another slot 4 is formed in the body portion of the plate 1 and gradually diminishes in width toward one end, the reduced end portion of said slot being extended across the corner 5 of the buckle and into the end portion 2 thereof. Another longitudinally extending slot 6 is formed in the body portion of the plate 1 adjacent that end thereof farthest removed from the bend or corner 5, this slot being produced by cutting a tongue 7 out of the body, the free end of the tongue being pointed as shown at 8 and bent at an angle so as to constitute a spur. That end of the slot 6 adjacent the base of the tongue 7 is widened by cutting away portions of the metal as shown at 9. It will be noted too that a depression 10 is formed adjacent the base of the tongue, this being provided for a purpose hereinafter set forth.

The tie used in connection with the buckle can be in the form of a wire such as indicated at 11 or can be made up of metal strapping.

Before the buckle is used the tongue 7 extends upwardly from the body portion 1 thereof as indicated in Fig. 1, the spur 8 extending downward toward the body and with its point located between opposed walls of the slot 6. When it is desired to apply the buckle and tie to a bale of any suitable material or to a box or package one end of the tie is extended diagonally through the angle portion of the buckle, so as to enable the end of the tie to extend through the slot 3. This is permitted in view of the fact that the slot 4 extends back from the corner 5 and within the plate 1 a sufficient distance to enable the straight end portion of the tie to be threaded into the slot 3. After the tie has thus been threaded straight into the openings 4 and 3 it is folded down on the depending end portion 2 as shown in Fig. 2 and the buckle then applied to the bale. The tie is then drawn tightly around the bale or package or the like and wrapped one or more times about the base portion of the tongue 7. Said tongue is then driven in the direction of the bale so as to be seated within the slot

6, the spur 8 being thus forced into the bale, package or the like, and the opposed portions of the looped or coiled end of the tie being brought into the enlarged portions 9 of the slot 6. By subjecting the buckle to sufficient weight the tongue will be caused to lie flush with the body portion 1 and the coiled portion of the tie will rest within the depression 10 and with its outer face substantially flush with the corresponding face of the body portion 1 of the buckle.

By providing a buckle such as herein described the tie is positively held against displacement relative to the buckle after the parts have once been tightened and applied.

It is to be understood of course that various changes may be made in the construction and arrangement of the parts within the scope of the appended claims without departing from the spirit or sacrificing the advantages of the invention.

What is claimed is:—

1. A bale tie buckle consisting of a plate having a body portion and an end portion disposed at an angle to the body portion, there being spaced upper and lower openings in the end portion for the reception of the straight end of a tie, the upper opening

extending into the body, and means on the body for engaging the other end of the tie.

2. The combination with a bale tie buckle consisting of a plate having a body portion and an end portion disposed at an angle to the body portion, there being spaced upper and lower openings in the end portion, the upper opening extending into the body, and tie engaging means upon the body, of a tie having a straight end portion extending through the lower opening from the inner to the outer side of the end portion, said tie being bent upon the lower wall of the upper opening and extending downwardly along the outer face of said end portion, the other end portion of the tie being wrapped in engagement with the tie engaging means on the body, the straight end of the tie being insertible diagonally through the buckle and the openings therein.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JOHN L. EVANS.

Witnesses:

FRANK M. RAYMUND,  
IRA H. CRUSON.