

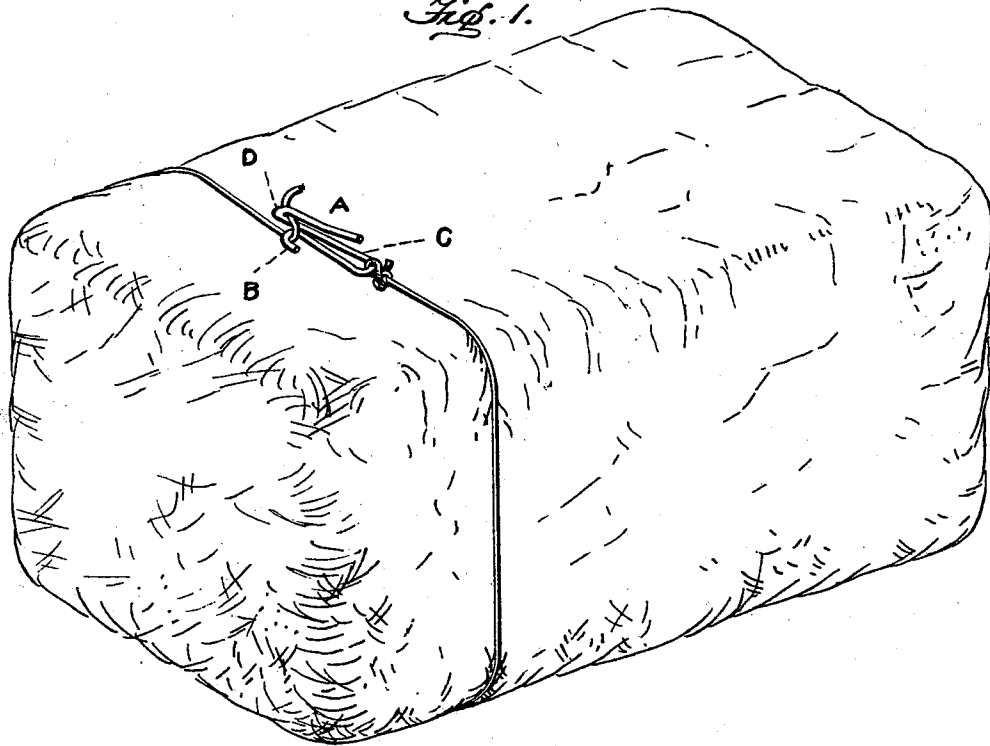
(No Model.)

J. W. CARVER.  
BALE OR BUNDLE TIE.

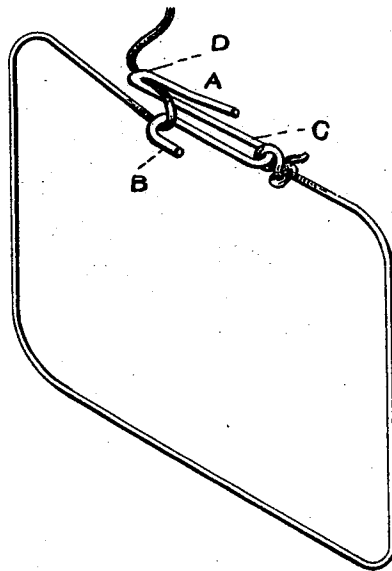
No. 516,185.

Patented Mar. 13, 1894.

*Fig. 1.*



*Fig. 2.*



Witnesses

*Wm. C. Ashie*  
*May C. Moore*

*James W. Carver,*  
Inventor

BY *[Signature]*  
Att'y.

# UNITED STATES PATENT OFFICE.

JAMES W. CARVER, OF MIDDLE GRANVILLE, NEW YORK, ASSIGNOR TO THE  
CARVER MANUFACTURING COMPANY, OF SAME PLACE.

## BALE OR BUNDLE TIE.

SPECIFICATION forming part of Letters Patent No. 516,185, dated March 13, 1894.

Application filed July 19, 1893. Serial No. 480,946. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES W. CARVER, a citizen of the United States, residing at Middle Granville, in the county of Washington and State of New York, have invented certain new and useful Improvements in Bale or Bundle Ties; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in devices for fastening bales, bundles or packages, shocks of grain, bags, hammocks, also any articles that may be tied, and the object of my invention is the provision of a device of this character which will be of the simplest and cheapest possible construction, which can be quickly and easily applied and securely retain the bale or bundle and which will not become unfastened or untied under a heavy strain, thus producing a practical and useful device.

The invention consists of a tie or fastener for securing bales, bundles or packages made of a single piece of material and bent to the proper shape to produce a practical device as will appear from the following.

In order that the construction and manner of using as well as the advantages of my invention may be readily understood I have

illustrated in the accompanying drawings, in Figure 1 a perspective view of a bale with my device applied thereto to secure the same, and Fig. 2 is an enlarged view showing the device with the cord in position.

My tie or fastener is preferably made of a single piece of wire A, bent or doubled first to form the hook or guide B for the cord, then bent to form the loop or staple C to receive the stationary end of the securing cord and finally bent to form the binding notch D, between which the free end of the cord is retained as clearly shown. From this construction it is evident that I provide a fastening device which is of the simplest possible construction; which cannot become unfastened under a heavy strain; which can be quickly and easily applied and fastened or released when necessary and which is durable, cheap and practical.

I claim—

A tie or fastener made of a single piece of metal doubled upon itself to form two substantially parallel arms of unequal length, the shorter arm being provided with a U-shaped bend at its end and the longer arm being provided with a V-shaped bend, adapted to be used as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES W. CARVER.

Witnesses:

JOHN GILROY,  
H. B. BOWDEN.