

(No Model.)

W. D. SMITH.

PACKAGE TIE.

No. 274,044.

Patented Mar. 13, 1883.

Fig. 1.

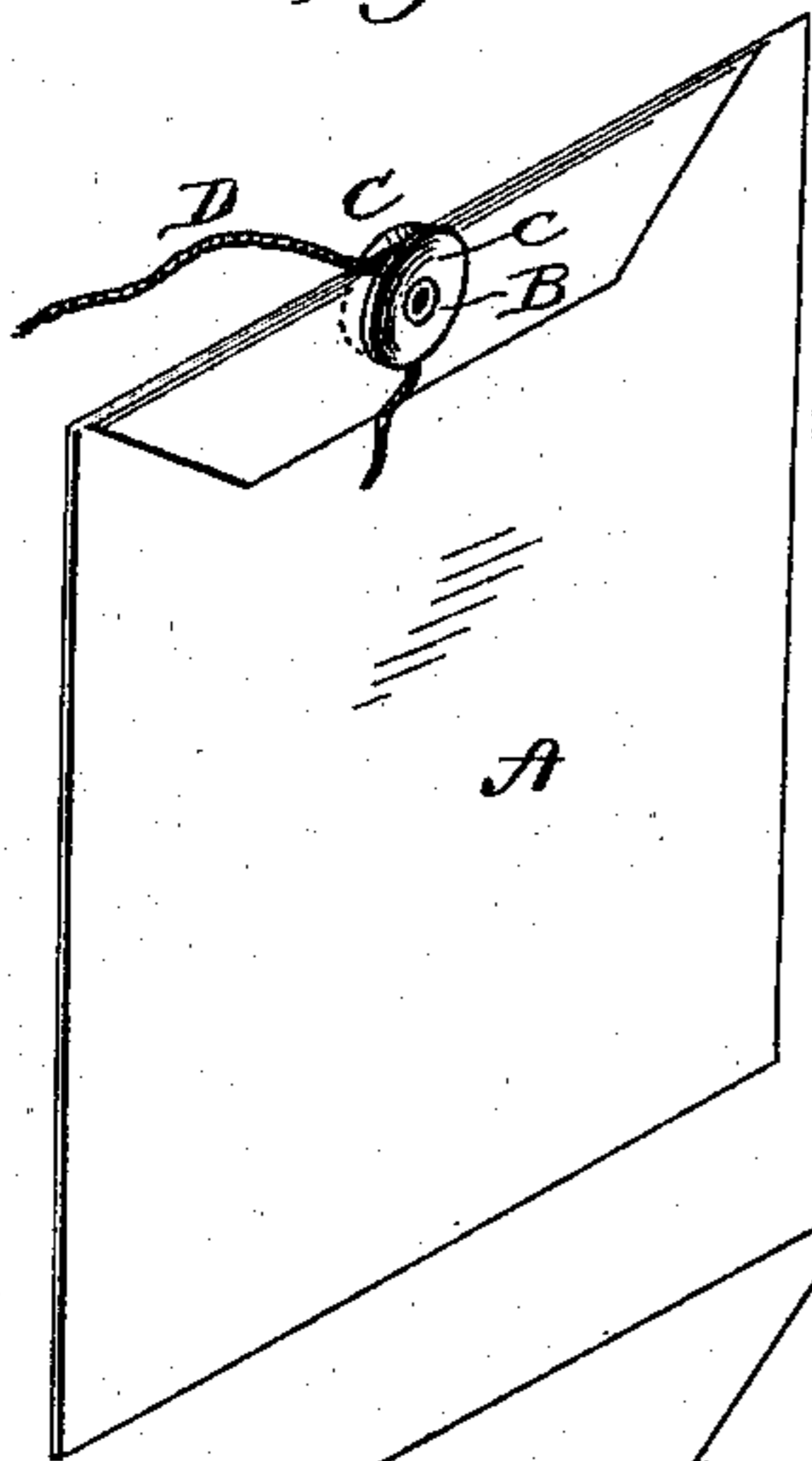


Fig. 2.

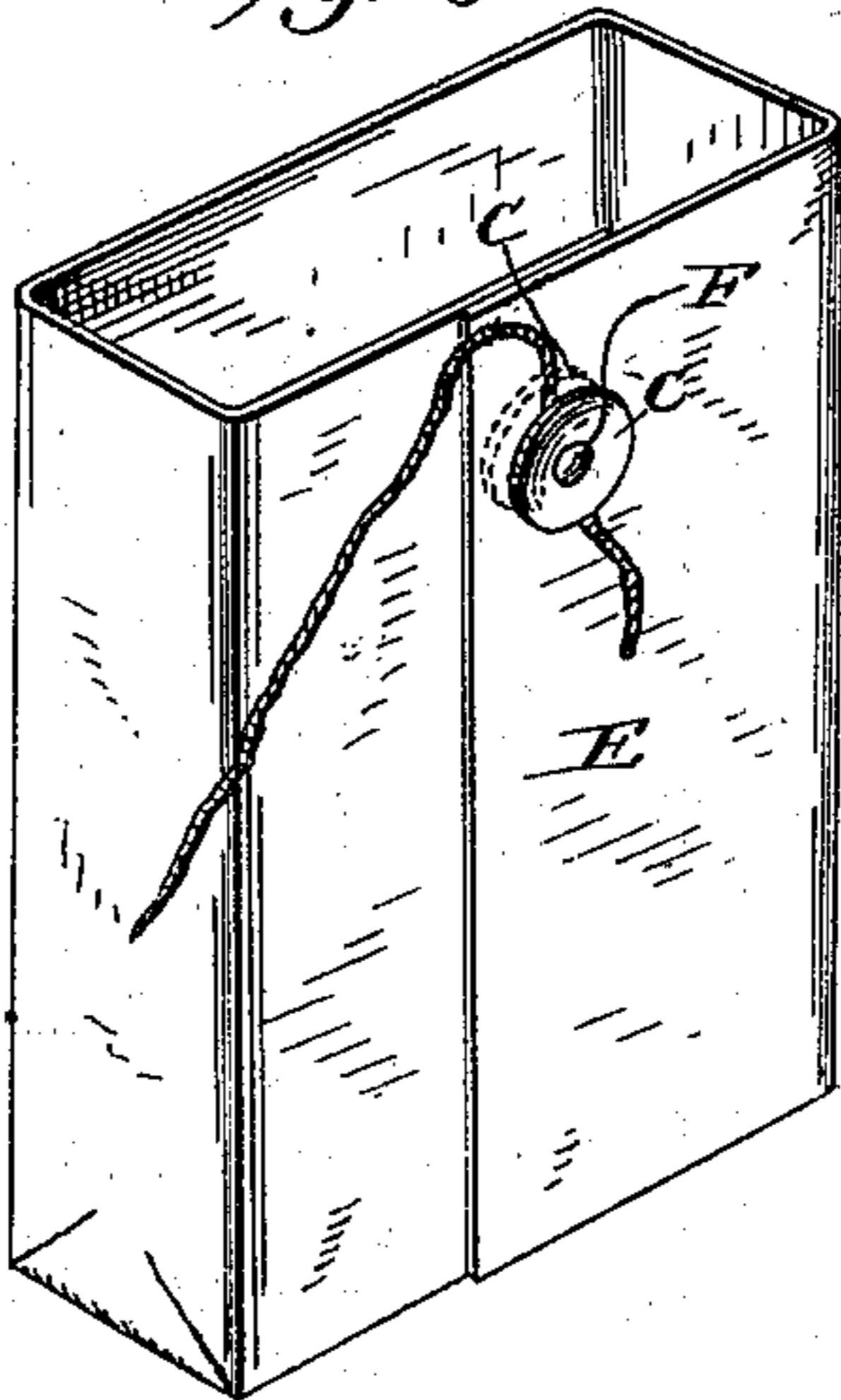


Fig. 3.

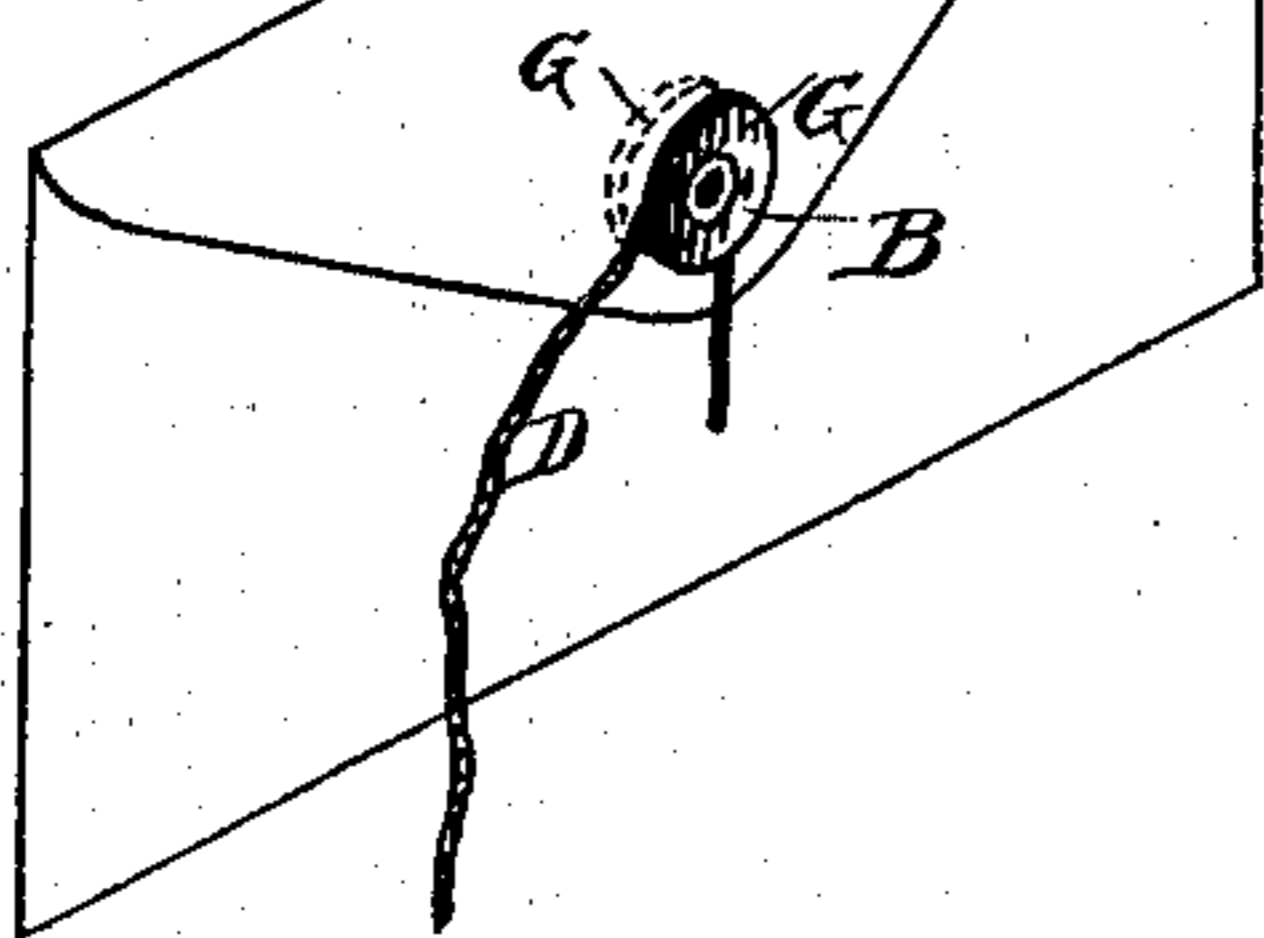


Fig. 4.

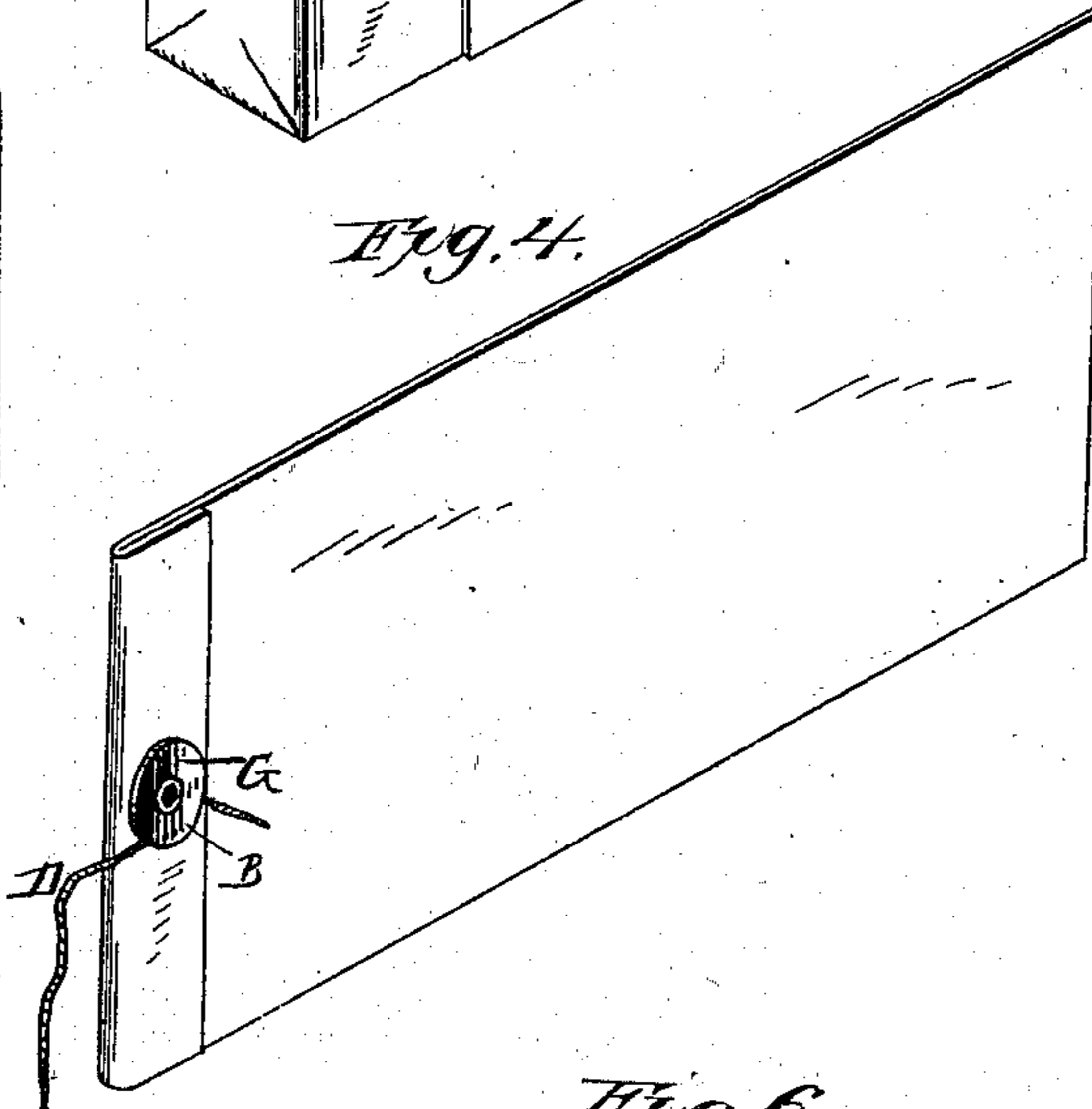


Fig. 5.

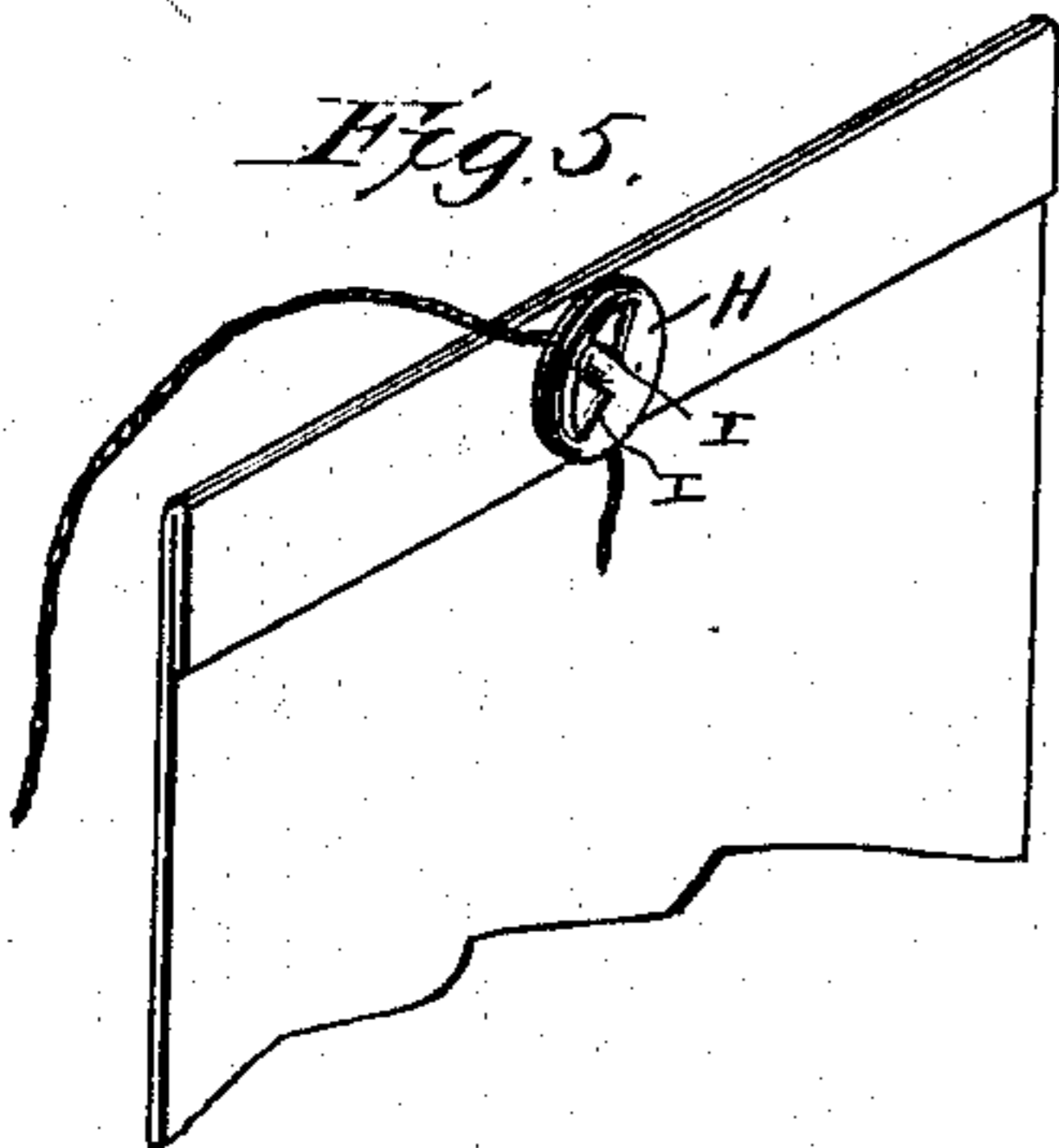


Fig. 6.



Fig. 7.

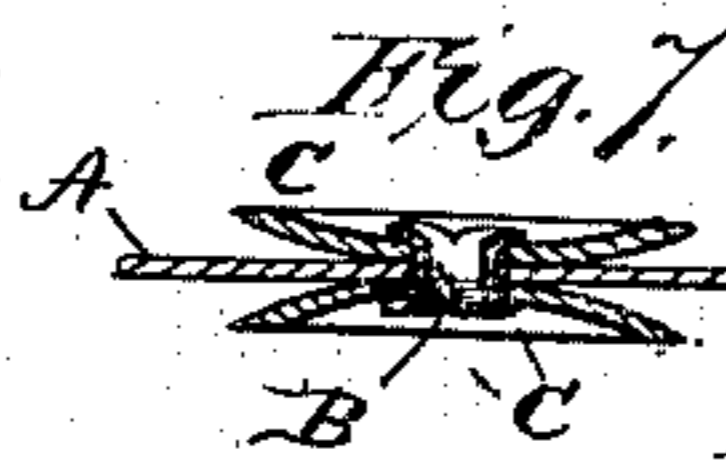


Fig. 8.

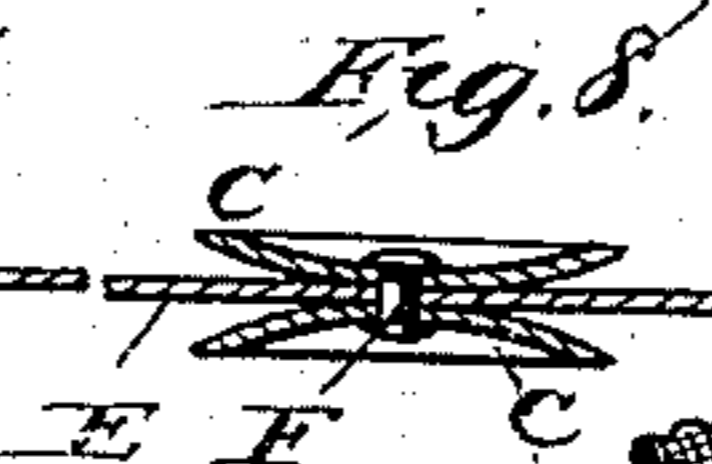


Fig. 9.

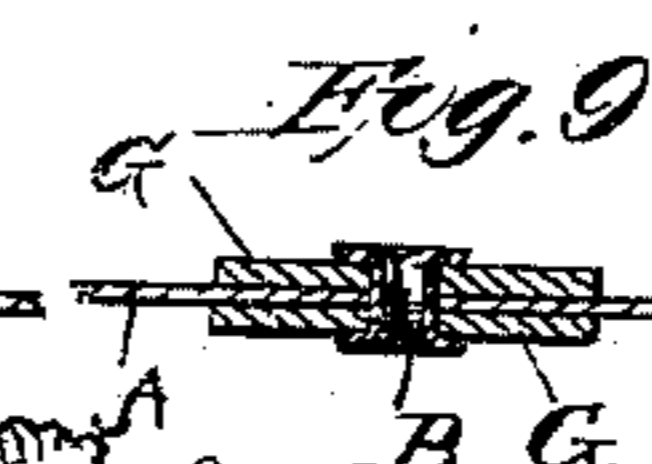


Fig. 10.

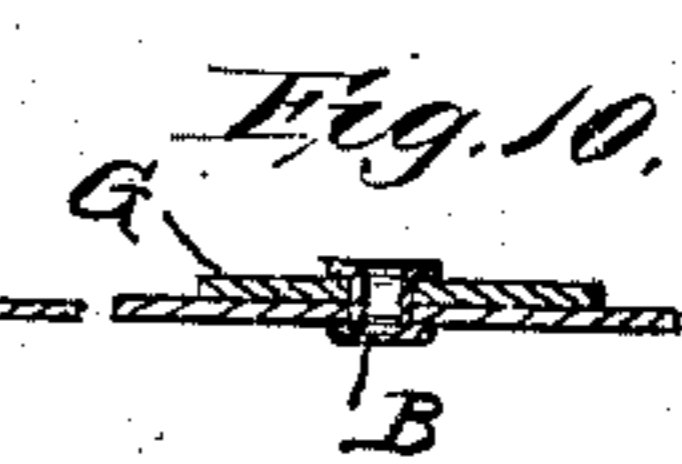


Fig. 11.

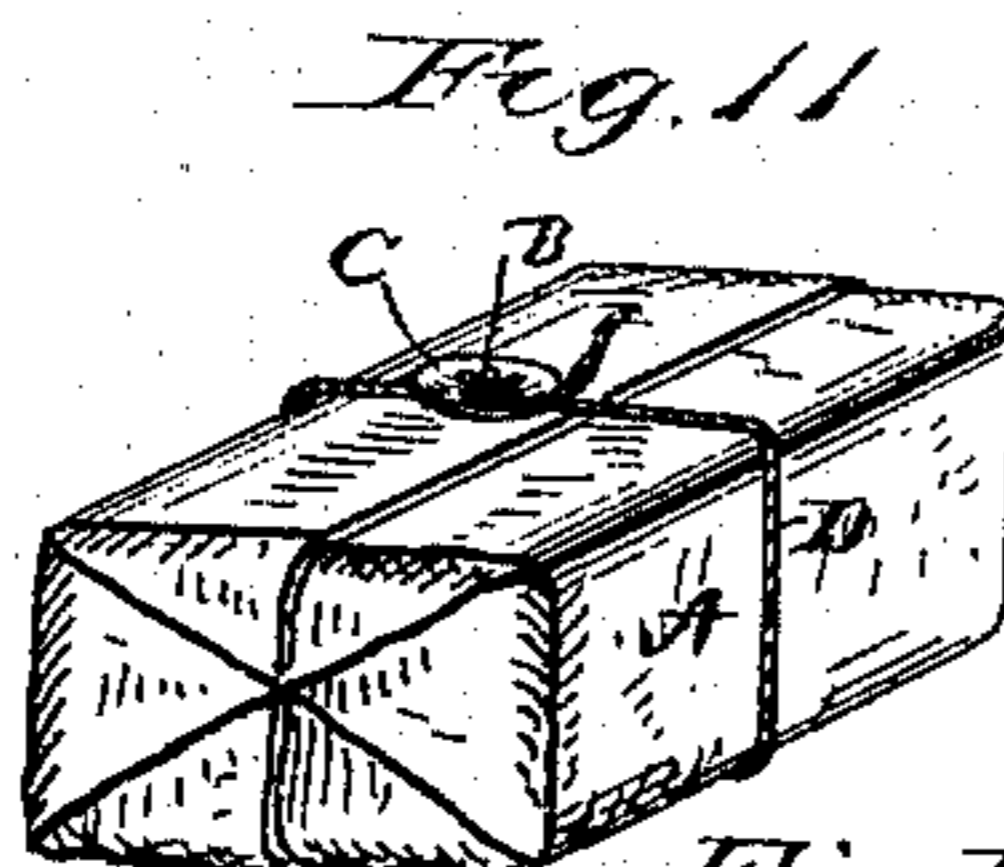
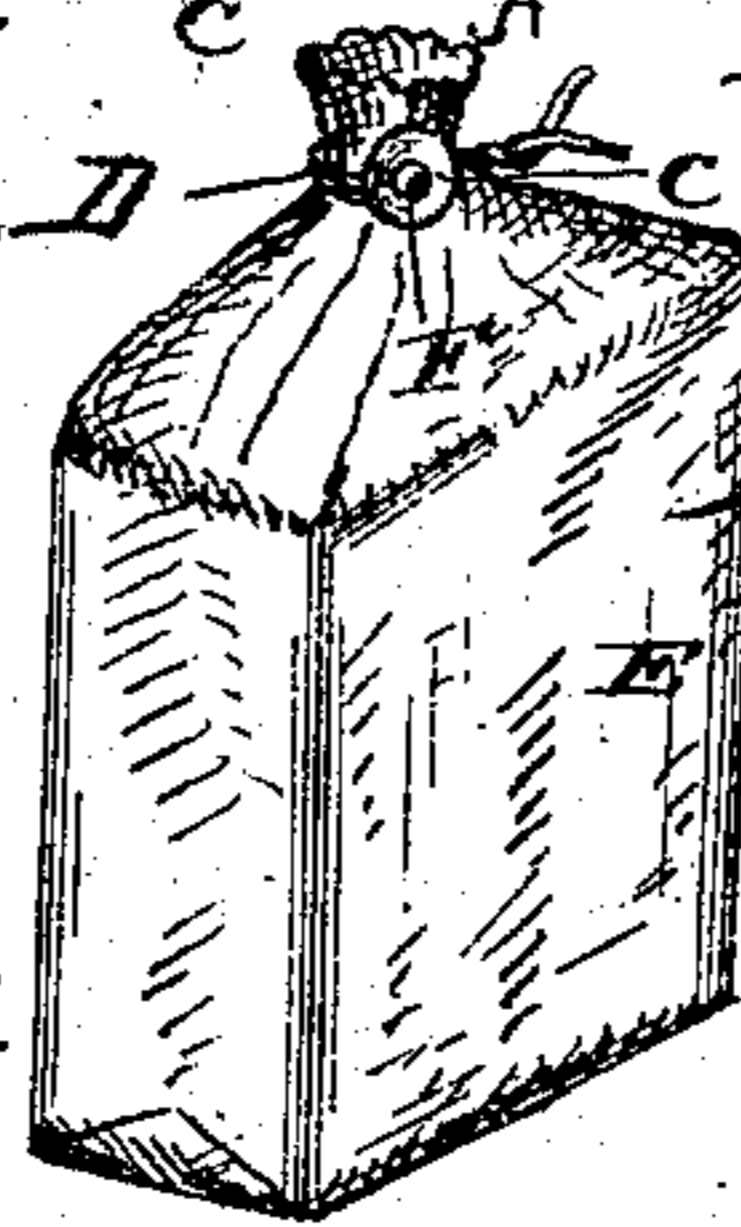


Fig. 12.



WITNESSES

H. L. Ouraud.

Red Bull.

INVENTOR

W. D. Smith

Attorneys.

# UNITED STATES PATENT OFFICE.

WALTON DUANE SMITH, OF PROPHETSTOWN, ILLINOIS, ASSIGNOR OF  
ONE-HALF TO CYRUS EMERY, OF SAME PLACE.

## PACKAGE-TIE.

SPECIFICATION forming part of Letters Patent No. 274,044, dated March 13, 1883.

Application filed January 11, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, WALTON D. SMITH, a citizen of the United States, residing at Prophetstown, in the county of Whiteside and State of Illinois, have invented a new and useful Package-Tie, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to devices for tying or securing packages of all kinds; and it consists of a device to be permanently attached to a wrapping-sheet, envelope, sample-bag, or the like, by means of which the same may be quickly and easily secured, as will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, Figure 1 represents the end of a wrapping-sheet having one form of my improved tying device. Fig. 2 is a perspective view of a bag having another form of the tying device. Fig. 3 shows an envelope having a third form of the fastening device. Fig. 4 shows a wrapping-sheet having a fourth form of the tying device. Fig. 5 shows a wrapping-sheet equipped with a fifth form of the tying device. Fig. 6 is a perspective view of the fastener shown in Fig. 5 detached. Figs. 7, 8, 9, and 10 are sectional views of the tying devices shown in Figs. 1, 2, 3, and 4, respectively; and Figs. 11 and 12 show in perspective a package and a bag secured by the tying devices shown in Figs. 1 and 2, respectively.

The same letters refer to the same parts in all the figures.

My improved tying device consists of one or two flat or slightly-curved disks secured to the sheet, envelope, or other article to be secured, and having a tying-cord attached, as will be hereinafter more fully described with reference to the drawings, in which—

A represents an ordinary wrapping-sheet, to one end of which the fastening device is secured. The device in this instance consists of two slightly-curved or concavo-convex disks placed on opposite sides of the sheet, with their convex sides in contact with the latter, and secured by means of an ordinary eyelet, B, passing through the disks, which are denoted by C C, and the sheet. Between the outer side of the sheet and the adjoining

disk is secured a tying-cord, D. The disks C C may be stamped or otherwise formed of thin sheet metal, or of any other material that may be deemed suitable for the purpose, but which should be of a somewhat elastic nature, in order to hold the tying-cord firmly when the package is tied, as will be presently described. The device just described is illustrated in Figs. 1, 7, and 11 of the drawings.

In Figs. 2, 8, and 12 the disks C C are secured to the fabric of a bag, E, by means of a rivet, F, passing through the disks and fabric. In other respects the construction is precisely as above described.

In Figs. 3 and 9, I have substituted for the curved disks C C two flat disks, G G, of paste-board or like material, secured in position by an eyelet, B.

In Figs. 4 and 10, I have shown a single disk G, secured to the outer side of a wrapping-sheet by means of an eyelet, B.

In Figs. 5 and 6 is illustrated a single disk, H, stamped or struck up from sheet metal, and having tongues I I struck up from its body to serve as means for attaching it, as shown, to the outer side of a wrapping-sheet, bag, envelope-flap, or the like.

The operation of my invention will be at once understood from the foregoing description, taken in connection with the drawings hereto annexed. The package having been made up, the tying-cord is passed around the same and made fast by wrapping it one or more times under the outer disk, around the stem or shank formed by the connecting medium. The elasticity of the outer disk serves to hold the cord securely.

The disk or disks may in every case be either flat or curved, at option. I prefer, however, to make at least the outer disk slightly curved, as the tying-cord may then be more easily wrapped under it.

I would also have it understood that in the accompanying drawings only a few of the modifications of which my invention is capable have been shown. Thus, instead of the eyelet, rivet, or struck-up tongues, any other suitable connecting medium may be used. Likewise, in lieu of the circular disks shown in the several figures, disks of any other suitable shape—such as oblong, rectangular, or polygonal—may

be used without departing from the spirit of my invention. Whether one or two disks shall be employed will also be entirely optional with the user.

5 I claim as my invention and desire to secure by Letters Patent of the United States—

1. A package-tying device consisting of a disk permanently secured to the outer side of a wrapping-sheet, bag, or the like, and a tying-  
10 cord secured permanently under the said disk, as set forth.

2. A package-tying device consisting of a curved or concavo-convex disk permanently secured to the outer side of a wrapping-sheet,

bag, or the like, and a tying-cord secured per- 15 manently under the said disk, as set forth.

3. A package-tying device consisting of a disk secured to a wrapping-sheet, bag, or the like, by means of tongues struck up from its body, and a tying-cord secured between said 20 sheet or bag and the disk, as set forth.

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

WALTON DUANE SMITH.

Witnesses:

GEO. E. PADDOCK,  
H. R. KENT.