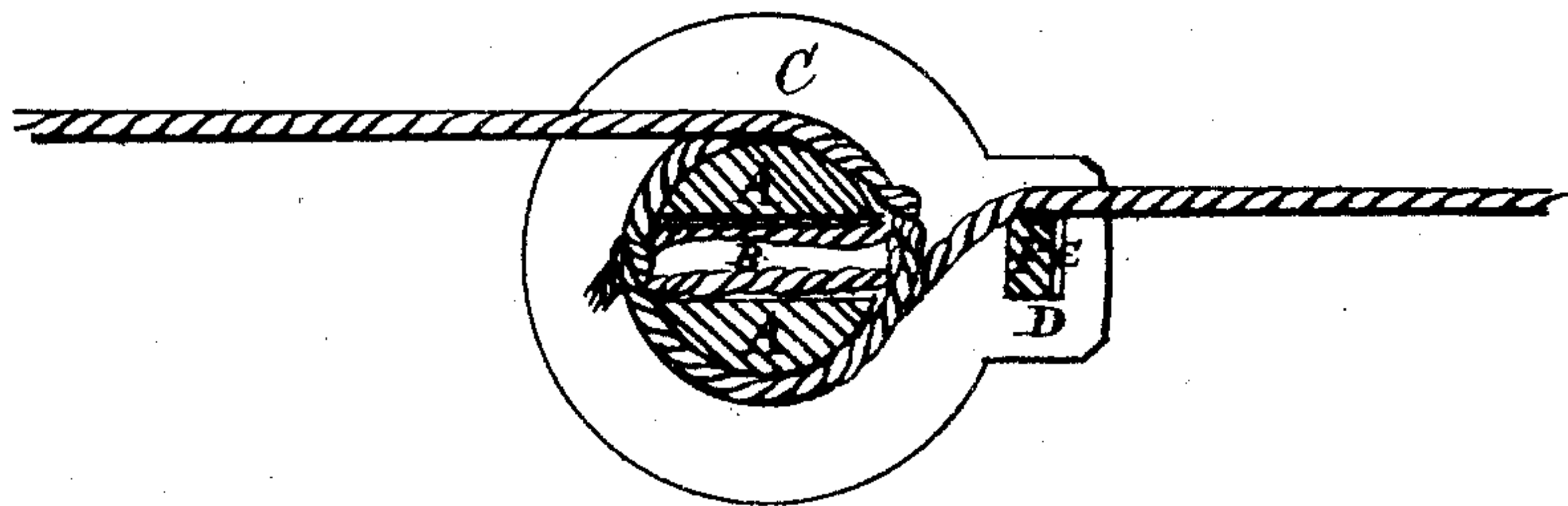


*J. W. Barnum.*  
*Cotton-Bale Tie.*

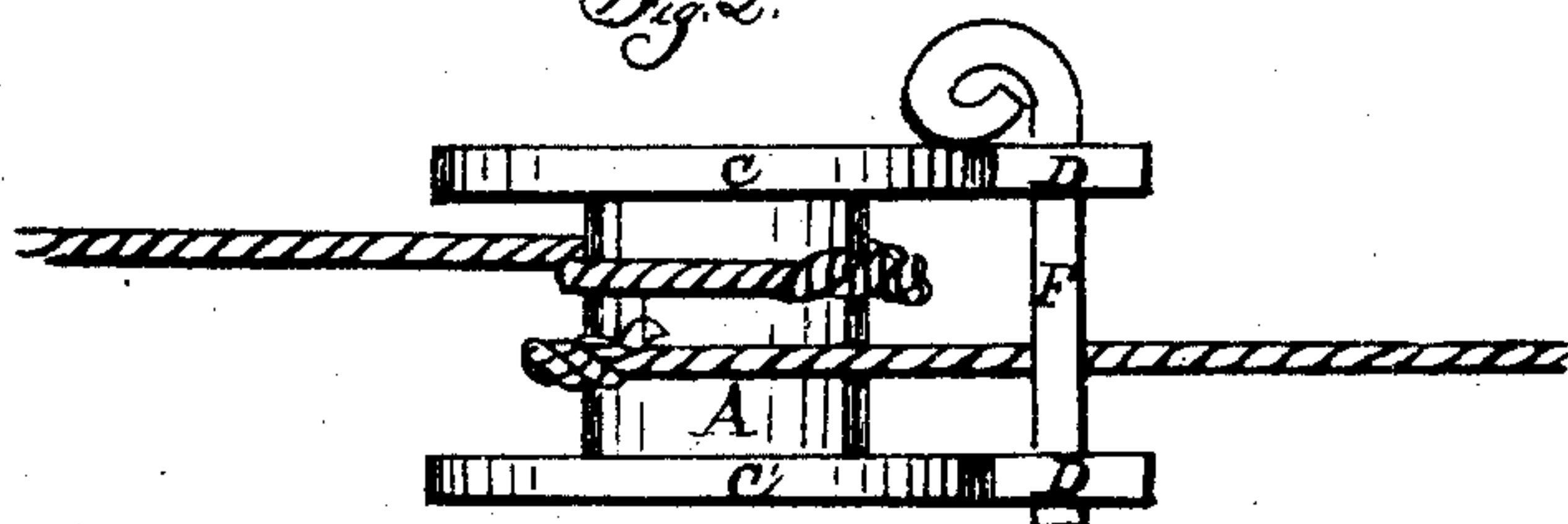
*Nº 76145*

*Patented Mar. 31, 1868.*

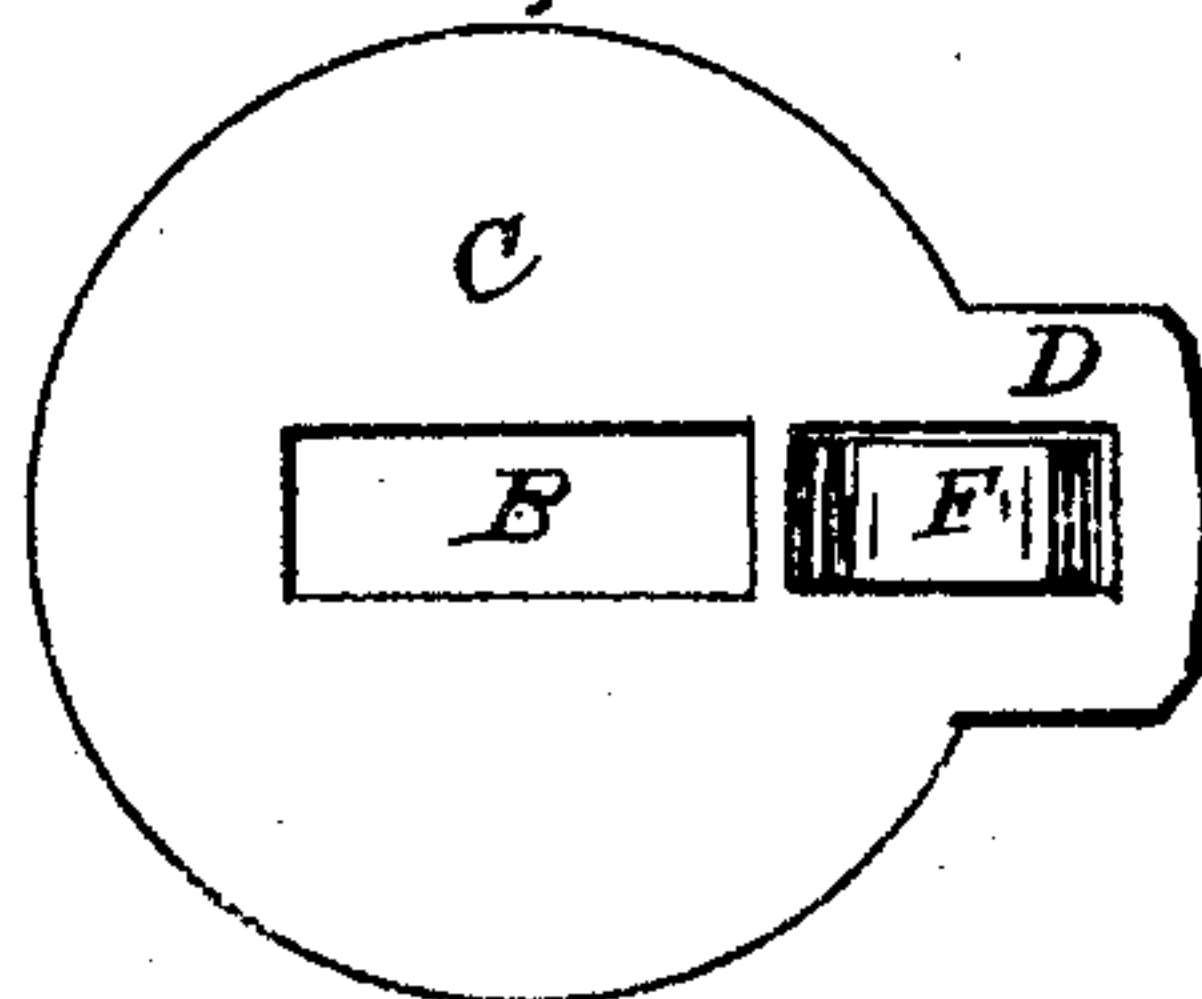
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



*Witnesses*  
*A. Pasham*  
*Rafael R. Rhodes*

*Inventor*  
*James W. Barnum*

# United States Patent Office.

JAMES W. BARNUM, OF NEW ORLEANS, LOUISIANA.

*Letters Patent No. 76,145, dated March 31, 1868.*

## IMPROVED COTTON-BALE TIE.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, JAMES W. BARNUM, of the city New Orleans, parish of Orleans, and State of Louisiana, have invented a certain new, useful, and improved device for fastening the ends of wire rope together when the same is used for banding cotton or other bales; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the annexed drawings making a part of this specification, in which—

Figure 1 is a sectional view, the bisection being in the line of the direction of the band.

Figure 2 a plan or top view, and

Figure 3 a side view of my device.

As to all or very nearly all existing devices for fastening together the ends of wire-rope bands, there is this defect or objection, to wit, that the slack of the band cannot be taken up at the time the band is applied to the bale, beyond what may be drawn up by hand, and hence there is a very considerable expansion of the bale after it is withdrawn from the compressing-machine, and which being unequal in different parts of the bale, destroys everything like symmetry of proportions, and interferes to a very annoying extent with the proper stowage of the cotton on boats on which it is placed for transportation, in warehouses, or other places, in which it may be placed for preservation or convenience.

My invention is so constructed as that all the slack may be taken up, and the same or very nearly the same degree of tension be put upon every band on a bale, so that when it is used, there will be no appreciable expansion or distortion of the bale.

My device consists of a cylinder, through which there is a central opening, tipped or provided at both its ends with a projecting flanch, to prevent the wire rope from slipping off the cylinder around which it is wound, in taking up the slack, and securing the fastening, and which is sufficiently extended at one point of its circumference to allow of the making of an aperture to receive a bolt or key, to secure the slack that has been previously taken up, and thus to fix or establish the fastening permanently.

But my invention will be better and more quickly understood by referring to the drawings, upon which A marks the cylinder, B the central opening through it, and C C' the projecting flanches at its ends. D marks the extension of the flanches C C', to which I have referred, and E E' the apertures through such extended parts. F is the bolt or key, which is introduced into the apertures E, after the slack has been taken up, to fix the fastening.

The operation of applying the device to use is very simple, and is as follows, to wit: The band is made to encircle the bale, and the ends of it are passed in reverse directions through the opening, B. The device is then turned or revolved in either direction, which will, of course, wind up the wire rope in opposite directions, until all the slack is taken up, or the band is drawn tight, and then the bolt or key F, which may be linked to the device to prevent its being lost, is passed through the holes E, in the manner as shown at figs. 1 and 2. This completes the operation. When the bale is to be broken up, the key F may be either withdrawn or broken, and this being done, a disconnection instantly follows, without injury to the band or the device.

Thus it will be seen that my device not only secures the slack being taken up, but that it also preserves, unimpaired, the band-end itself for renewed and repeated use.

What I claim, and desire to secure by Letters Patent, as a new article of manufacture, is—

The cylinder A, when provided with the aperture B, the flanches C C', in which are holes E E', for the reception of the bolt or key F, the whole being constructed and operating as described for the purpose set forth:

JAMES W. BARNUM.

Witnesses:

A. BARBARIN,

RUFUS R. RHODES.