

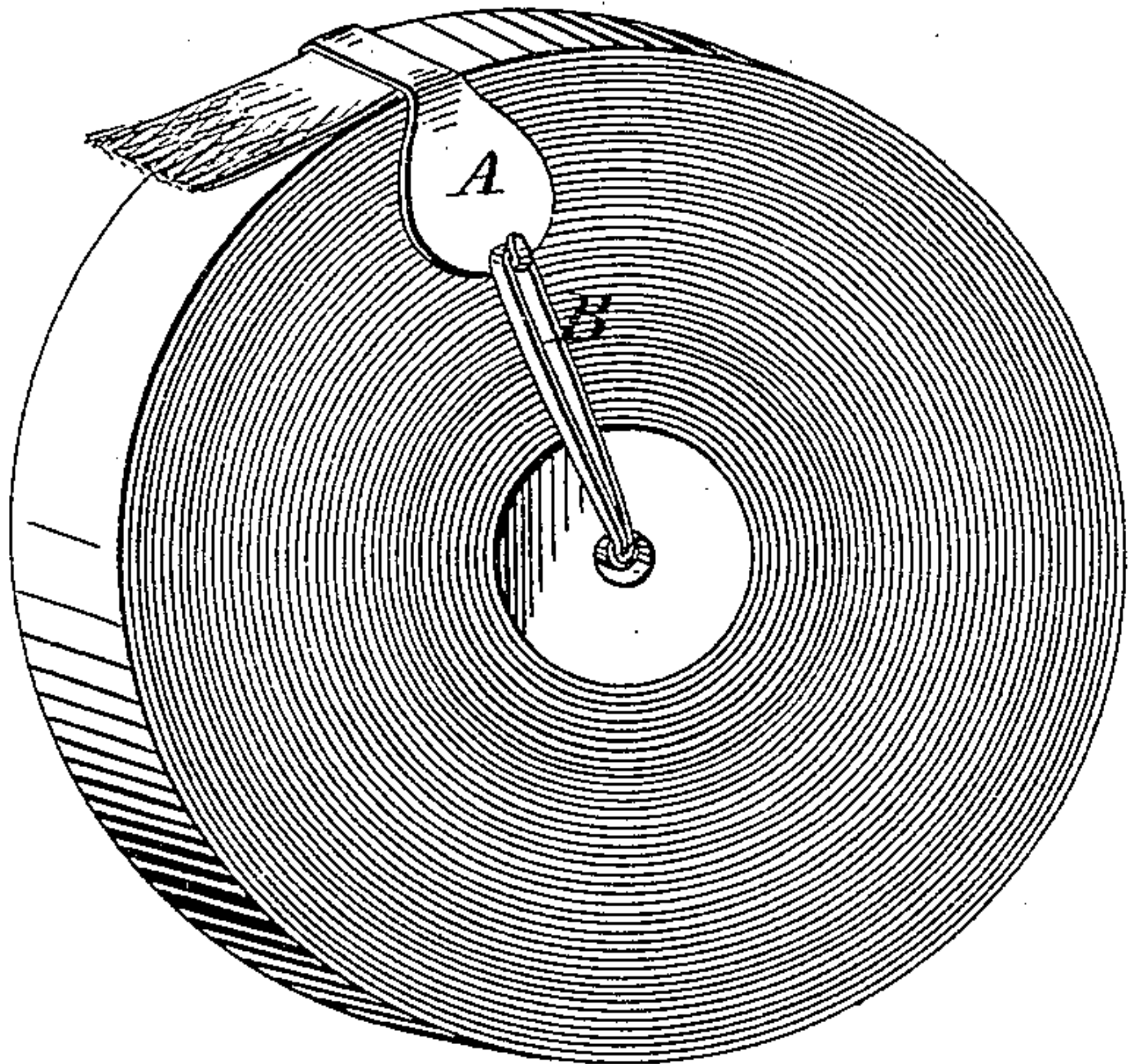
L. B. GOFF.

CLIP FOR BRAID, TAPE, &c, IN ROLLS.

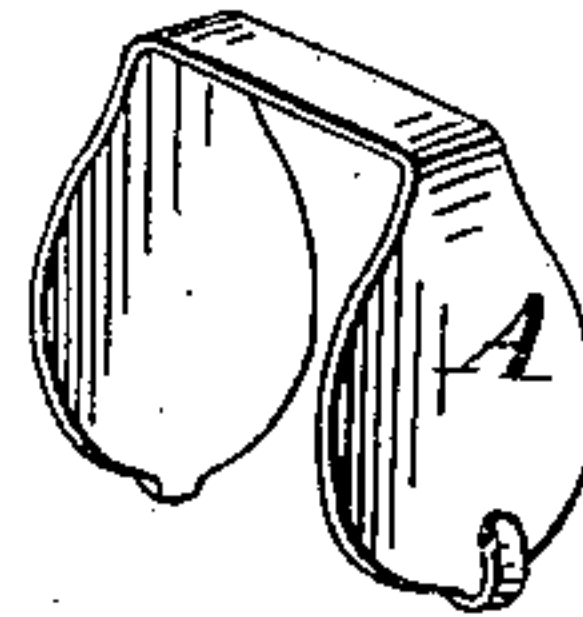
No. 253,278.

Patented Feb. 7, 1882.

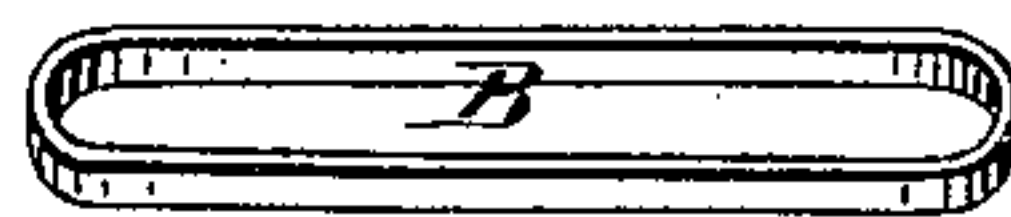
*Fig. 1.*



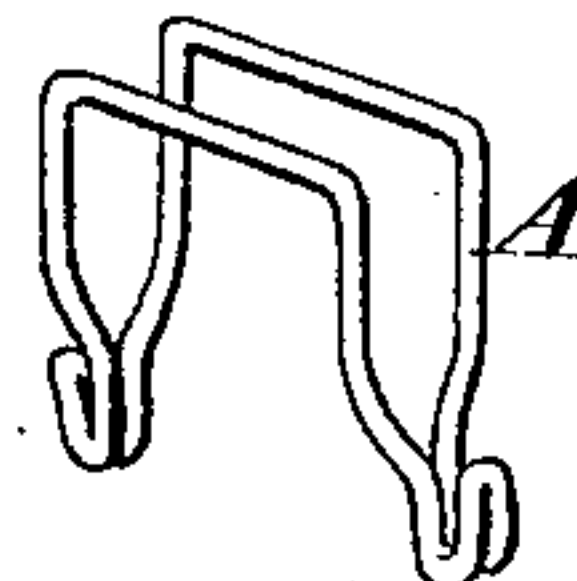
*Fig. 2.*



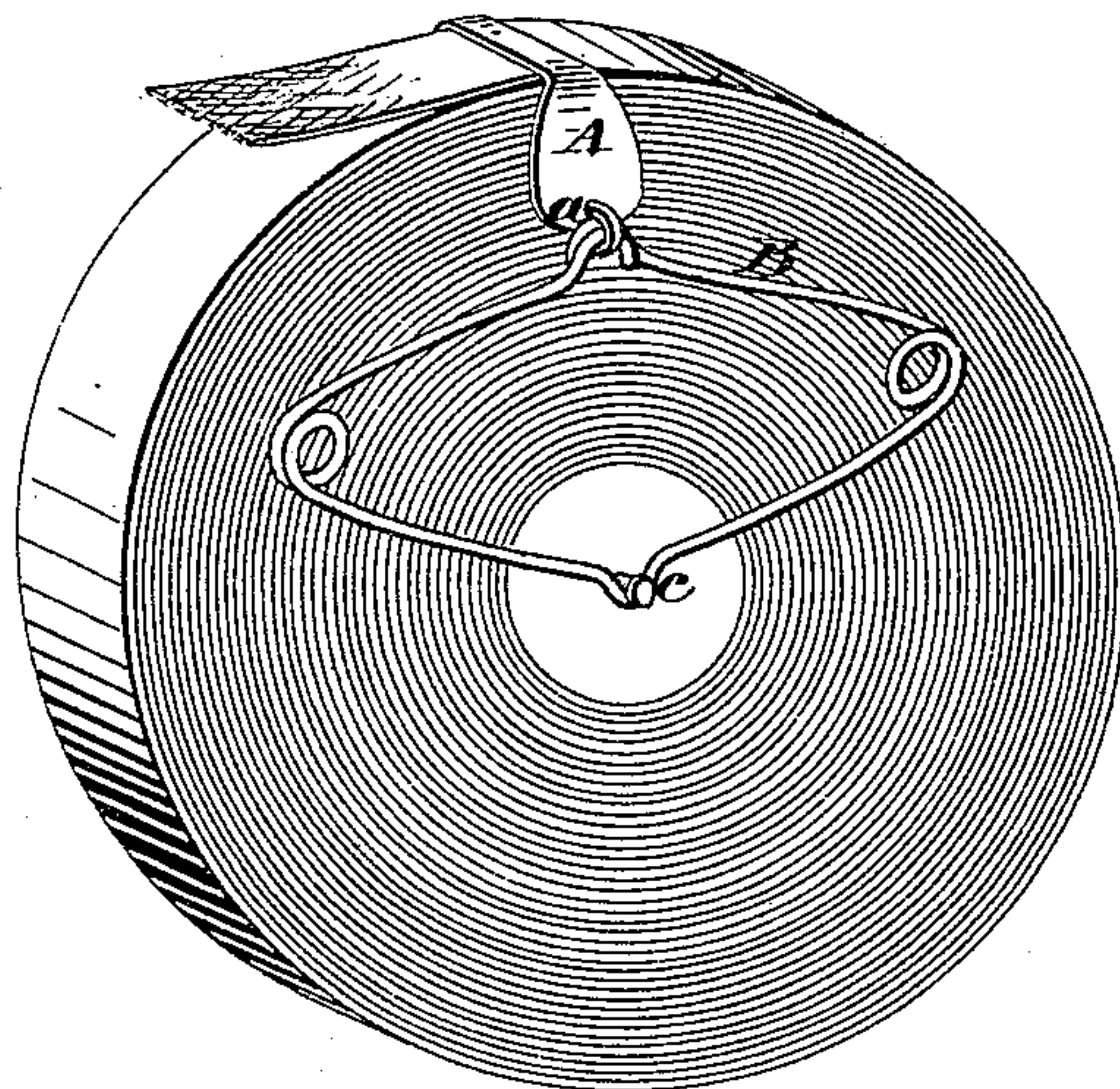
*Fig. 3.*



*Fig. 4.*



*Fig. 5.*



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# UNITED STATES PATENT OFFICE.

LYMAN B. GOFF, OF PAWTUCKET, RHODE ISLAND.

## CLIP FOR BRAID, TAPE, &c., IN ROLLS.

SPECIFICATION forming part of Letters Patent No. 253,278, dated February 7, 1882.

Application filed January 17, 1878.

*To all whom it may concern:*

Be it known that I, LYMAN B. GOFF, of Pawtucket, in the county of Providence and State of Rhode Island, have invented a certain  
5 new and useful Improvement in Clips for Braid, Tape, Ribbons, &c., in Coils or Rolls; and I do hereby declare that the following specification, taken in connection with the drawings furnished, and forming a part of the same, is a  
10 clear, true, and complete description of my invention.

My said improvements relate to that general class of tape-holding devices which have a spring capacity for compactly engaging with  
15 the periphery of a coil of tape, for instance, as set forth in the United States Letters Patent granted to M. B. Westhead, October 3d, A. D. 1865; and the object of my invention is to provide in a practicable sliding spring-clip a guiding capacity for controlling the outer layer of  
20 the fabric as it is being unwound or rewound, and, in addition thereto, to provide for the lateral support of the coil, and to render the clip easily applied or removed without disturbing  
25 the coil, or liability of injuring the spring thereof. For a spring I use either elastic rubber or metal, as may be in each instance desired. When I use rubber I am enabled by reason of my invention to utilize the well-known endless elastics, such as are commonly used for holding  
30 papers, &c., instead of using a length of elastic cord, and I therefore obviate knotting or tying it, as heretofore, and as I avoid knotting I save much labor in applying my clips as compared  
35 with the previous rubber clip. The coils or rolls of fabric being of a given size, I attain a more uniform compression of my spring by using rubber elastics of a uniform capacity or size than I could if each piece of elastic cord re-  
40 quired to be knotted or tied, because of the difficulty in locating a knot to be tied in an elastic cord. In using metal springs, I prefer that they be bow-shaped, because they are extended each side of the axis of the coil and afford extensive lateral support for the fabric,  
45 which, if it be braid loosely coiled, is a matter of considerable consequence. The portion of my clip which engages with the periphery, and adjacent thereto with the sides of the coil of  
50 fabric, is sufficiently rigid to afford a lateral

support for a portion of the coil in a line substantially radial from the center of the roll, so that it may also serve as a guide for properly laying the free end of the fabric in rewinding it.

To more particularly describe my invention, I will refer to the accompanying drawings, in which—

Figure 1 represents a coil of braid provided with one form of my improved clip. Figs. 2  
60 and 3 represent respectively a metal sliding guide and a common rubber elastic detached from the roll. Fig. 4 represents a sliding guide composed of bent wire and arranged to engage with a spring. Fig. 5 represents a coil  
65 of braid provided with a guide and a wire spring.

The guide A may be made of sheet metal, as shown in the drawings, or of wire, as in Fig. 4, which affords two points of contact with the  
70 periphery, or it may be composed of a single length of wire, but provided, of course, with means for connection with the spring. I do not limit myself to any particular form of guide,  
75 nor to any particular material, provided it operates as a rigid sliding guide and serves as a support for a portion of the coil in a line practically radial from the center.

The spring B may also be made of any desired material. For small coils of braid a short elastic  
80 may be profitably employed by passing one end of it through the center of the coil, or a core, if one be used, and its two ends are then passed over the hooks *a* on the guide. Wire springs should be provided with bends or recesses, as  
85 at *c*, for ready and secure engagement with a central pin, and with the hooks of the guide. The bow form of spring affords an extensive support for loosely-coiled braid on each side of a radial line extending from the center to the  
90 guide. For this form of spring a central bar or pin with two heads may be employed, either within a wooden core, or in the center of the coil, if no core be used. Bow-springs may be made of a single length of wire, the two ends  
95 being interlocked at *c*. It will be seen that when the rubber spring is employed no knotting or tying is needed, and that it can be readily applied or removed, if occasion requires  
100 it. I sometimes employ a loose tube at the cen-

ter of the coil or within the core, as shown, for the reception of the rubber, so that when the clip is moved back and forth the tube will turn without twisting the rubber, thereby obviating  
5 a liability of the rubber to break, which is incident to frequent twisting.

I am aware that it has heretofore been proposed to employ with elastic cord a roller provided with a flange at each end, so that when  
10 held to the periphery of a roll of tape, for instance, these flanges would serve as guides. It will be seen, however, that these flanges would project beyond the periphery of the coil and be bulky and inconvenient for packing,  
15 and that in rolling they would have a tendency to override the edge of the coil, and also that the peripheral roller would twist the rubber and weaken it, and I therefore limit my invention to a sliding guide, by means of which  
20 these several objections are obviated.

My improved spring-clip has a special value

in connection with braid of the class known as "gross goods" and put up in large coils.

Having thus described my invention, I claim as new and desire to secure by Letters Patent— 25

1. A spring-clip for tapes, braids, and other coiled narrow fabrics, which is provided with a rigid sliding guide, serving as a lateral support for a portion of the coil in a line practically radial from the center, and a suitable  
30 spring or springs for confining said sliding guide to its working position, substantially as described.

2. The combination of a rigid sliding guide, serving as a lateral support for a portion of a  
35 coil of fabric, and a separate spring or springs, the whole constituting a spring-clip, substantially as described.

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Witnesses:

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