

(No Model.)

J. KELEHER.  
BRAID FRAME.

No. 453,119.

Patented May 26, 1891.

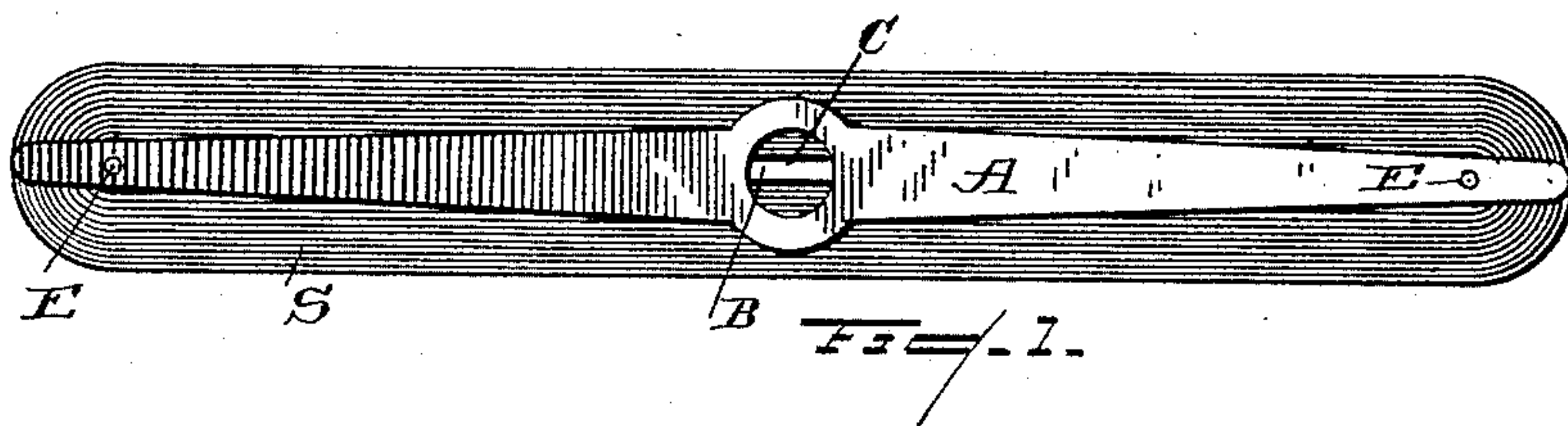


Fig. 3.

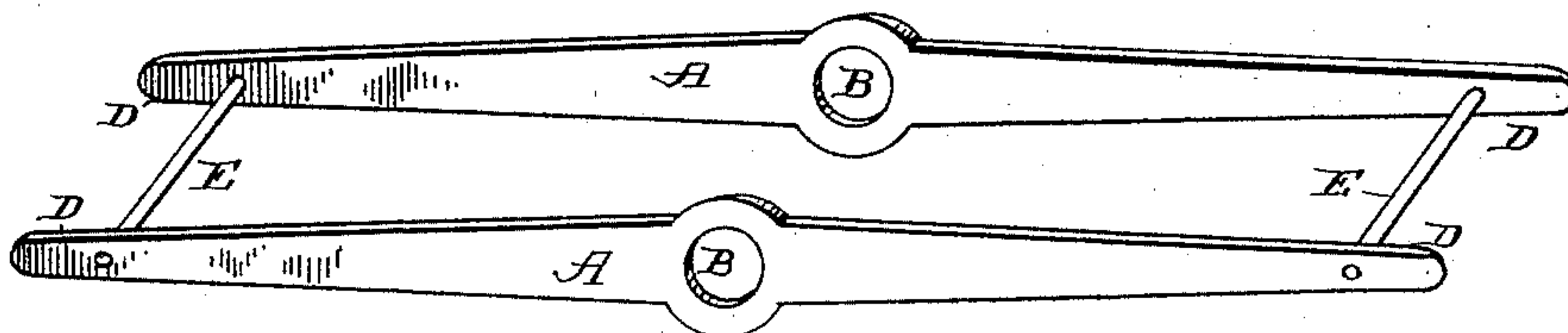


Fig. 2.

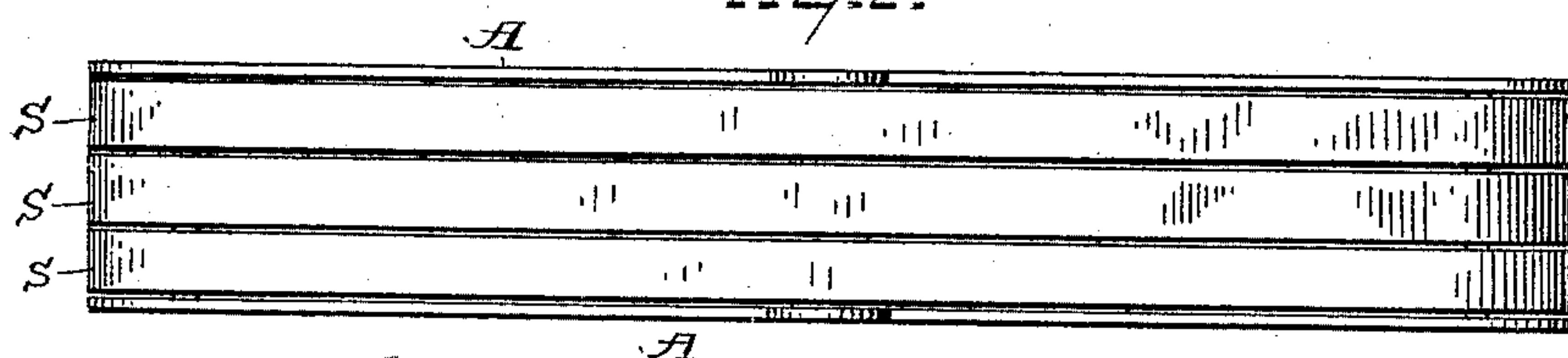
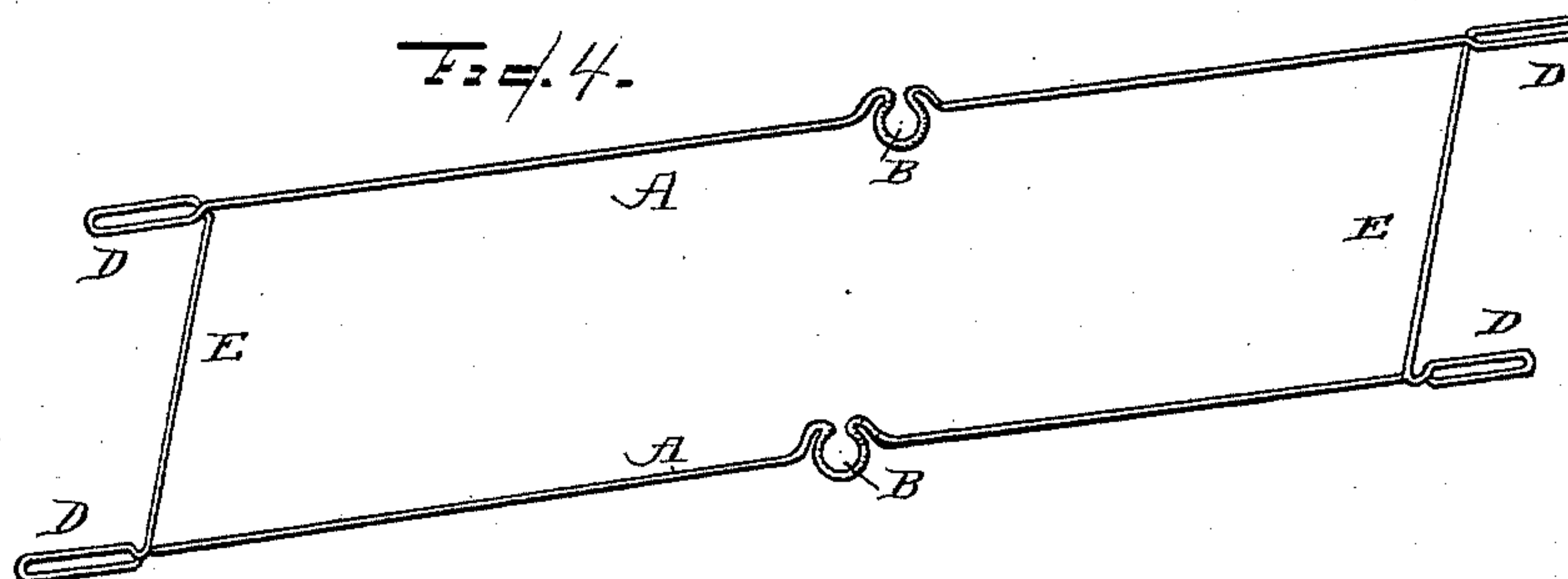


Fig. 4.



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# UNITED STATES PATENT OFFICE.

JAMES KELEHER, OF BELDING, MICHIGAN.

## BRAID-FRAME.

SPECIFICATION forming part of Letters Patent No. 453,119, dated May 26, 1891.

Application filed April 15, 1890. Serial No. 348,036. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES KELEHER, a citizen of the United States, residing at the village of Belding, in the county of Ionia and State of Michigan, have invented certain new and useful Improvements in Braid-Frames, of which the following is a specification.

My invention relates to a frame composed of two side pieces and two cross-pieces, the sides projecting beyond the cross-pieces and forming ears, and which sides have a hole through the center adapted to receive a pen-holder, pencil, or any other suitable axis upon which the whole may be revolved for the purpose of convenience in unwinding the braid; and the object of the invention is to prevent the braid from becoming tangled and to facilitate the unwinding of it by the user. The objects are accomplished by means of the mechanism illustrated in the accompanying drawings, in which—

Figure 1 shows a side view of my newly-invented frame with the braid wound thereon. Fig. 2 shows a top view having three tiers of braid wound thereon. Fig. 3 shows my preferred form of constructing the frame, and Fig. 4 shows a modified form in which the frame is constructed of a continuous wire having the ends extended and loops for the central openings.

Similar letters refer to similar parts throughout the several views.

A A represent the sides of the frame, and E E the cross-pieces upon which the braid is wound. The ends of the side pieces project beyond the cross-pieces E E, and are shown in the drawings by D D, &c. At the center of the frame are openings (shown by B B). The frames are preferably made of metal; but they may be constructed of any suitable material. The form of the side frame is substantially of a long strip, and preferably enlarged at the center, so as to allow for a good-sized opening at B B. These side pieces of the frames allow for any ornamentation or trade-mark when constructed of flat pieces, as shown in Fig. 3, and may be colored to suit the fancy or taste of the manufacturer.

S S S represent the braid wound upon the frame. Ordinarily the tiers of braid are made from a continuous strip. In the ordi-

nary construction the ends of the braid are fastened together by a cord or other material, and in order to unwind it this cord is cut and the three strips come apart and are liable to become a tangled heap. By my invention the user unwinds so much as he may desire, and the remainder remains upon the frame and is not liable to tangle or form knots.

In order to facilitate the insertion of a pencil, pen-holder, or other article, I insert between the strips a piece of paper or pieces of paper, as shown in Fig. 1. This allows for the insertion of any pointed article through the opening and between the braid on the two sides of the frame. A pencil may be introduced through the opening and form an axis upon which the braid-frame, with braid thereon, is revolved in removing the braid. This pencil or other article may be made stationary and the braid-frame slipped upon it when it is ready for use, and the amount required can be unwound by revolving the frame; or it may be used upon an ordinary pen-holder or pencil held in the hand by the user. The ears D D should be of sufficient length to hold the braid upon the frame and prevent it from slipping off over the ends of the ears. When wound to the ordinary capacity, the braid forms a surface flush with the ends, as shown in Figs. 1 and 2.

I have shown in Fig. 2 a frame holding three tiers of braid; but it is evident that the number of tiers may be increased or lessened, as may be desired. After the frame has been put up with the braid thereon a paper or other suitable material may be wound around the braid, either beneath or over the side pieces, preferably beneath the side pieces, for the reason that the side pieces will then hold the paper in position. This paper may be used as a protection to the braid and also for the purpose of giving the name of the manufacturer and any trade-mark which he may desire to attach thereto. This frame is adapted to hold braid, tape, and all similar material, and the frame may be preserved for refilling, although in ordinary use they are merely temporary expedients for holding the braid and for convenience in unwinding the same by the user.

In Fig. 3 of the drawings I have shown the



end of the cross-pieces E E as projecting to the outer surface of the side pieces A. It will be evident, however, that these cross-pieces may be made integral with the side pieces, in which case they would not show on the outer surface of the side pieces.

In using the wire I prefer to bend it in the center into the form shown in Fig. 4, instead of making a complete circuit with the wire. My preference for this form is given for the reason that there is no overlapping of the wire and therefore no projection at the center beyond the outer surface of the side pieces. It will be evident, however, that this wire might be bent so as to make a complete circuit, and thereby produce the same result.

I have shown but two cross-pieces to support the side pieces; but it is evident that more than two of these cross-pieces may be used, if found necessary, in order to give rigidity and strength to the frame. In any form

of structure the side pieces should extend far enough to hold the braid.

Having thus described my invention, what I claim to have invented, and desire to secure by Letters Patent, is—

A braid-reel consisting of two side pieces connected near their ends by cross-pieces and each provided at its center with an orifice, and a piece of fabric C, spanning the space between the side pieces and the orifices, for parting the braid and facilitating the passage of a pencil or pen-holder through the side pieces of the reel for rotating the latter, substantially as described.

In witness whereof I have hereunto set my hand and seal in the presence of two witnesses.

JAMES KELEHER. [L. S.]

Witnesses:

F. A. WASHBURN,  
J. EAGER.