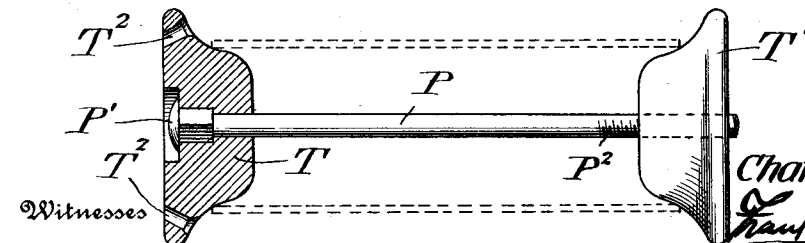
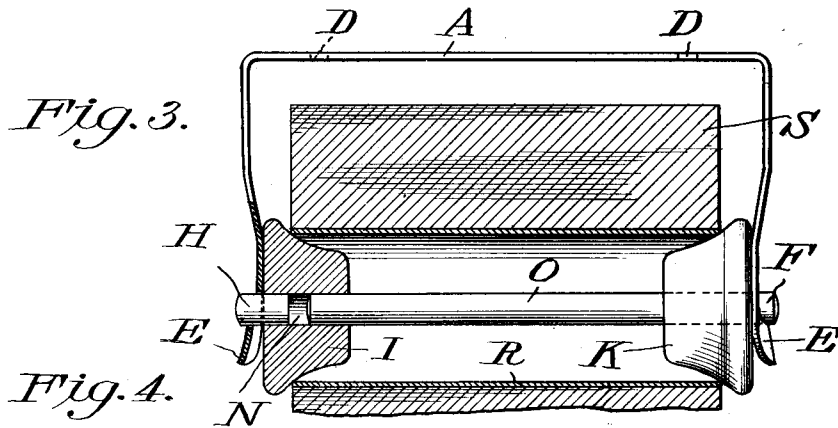
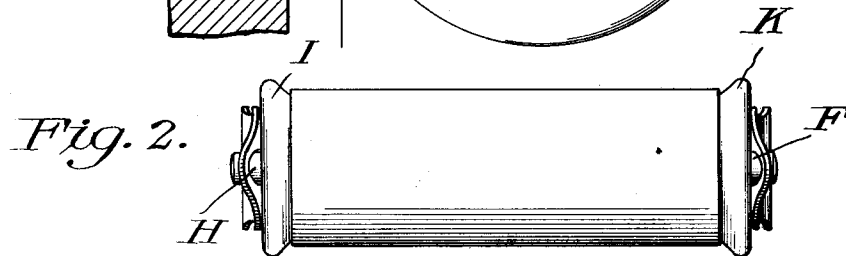
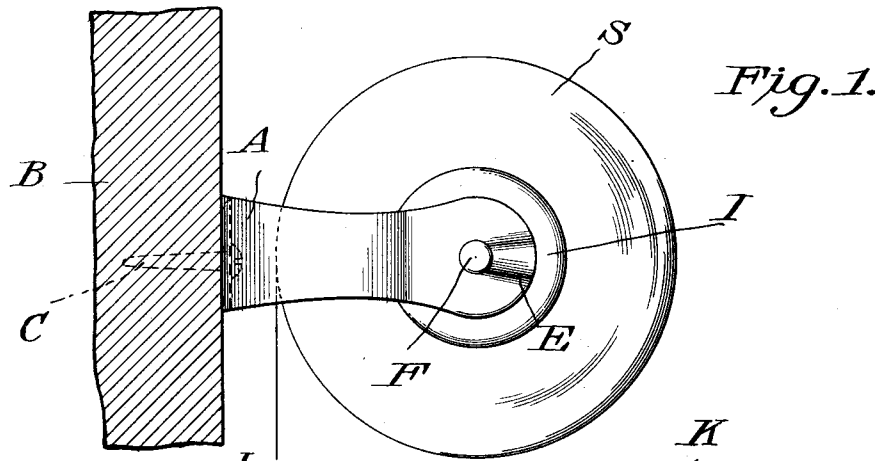


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 ROLL HOLDER.
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1,086,946.

Patented Feb. 10, 1914.



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ROLL-HOLDER.

1,086,946.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES W. SMITH, a citizen of the United States, residing at Alpena, in the county of Alpena and State of Michigan, have invented certain new and useful Improvements in Roll-Holders; and I do hereby 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 and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in reels for holding rolls of paper and the object in view is to produce a simple and efficient device of this nature so arranged that the cylindrical shell upon which the paper winds is held frictionally by tapering blocks having spindles which are journaled in suitable bearings in a supporting bracket.

The invention comprises various details of construction and combinations and arrangements of parts which will be hereinafter fully described, shown in the accompanying drawings and then specifically defined in the appended claims.

I illustrate my invention in the accompanying drawings, in which:—

Figure 1 is a side elevation of a reel paper holder. Fig. 2 is a front elevation of the reel showing the ends of the bracket arms. Fig. 3 is a horizontal sectional view through the form shown in Fig. 1, and Fig. 4 is a detail view partially in section showing a slight modification of the invention.

Reference now being had to the details of the drawings by letter, A designates a bail-shaped bracket member adapted to be fastened to a fixed object B in any suitable manner as by means of screws C passing through the apertures D. The arms of said bracket member are resilient and each arm has a portion thereof bent slightly toward each other with the end E outwardly curved and each arm is apertured for the reception of the spindles F and H.

Self-centering members, designated by letters I and K, are tapering and have concaved circumferences, each being provided with an aperture N. The aperture in the member I receives and securely holds the spindle H and also one end of the rod O

which passes through the self-centering member K, and its projecting end which forms the spindle F is journaled in an aperture in said bracket arm. It will be understood that the end of the rod O which engages the aperture N moves freely in the latter, allowing the resilient arms of the bracket member to adjust the two members I and K and hold the same with sufficient friction against the ends of the shell R upon which the paper S is wound.

In Fig. 4 of the drawings, I have shown a slight modification of the invention in which the self-centering members T and T', which are similar in shape to those illustrated in Fig. 3, are centrally apertured and a bolt P, having a head P', is passed through the member T and held from rotation therein by means of the squared portion of the bolt engaging a countersunk recess in the outer face of the member T, while the other end of the rod is threaded as at P² and engages threaded apertures in the member T', the latter serving as a nut which, when screwed against the end of the shell, will draw the two members frictionally in contact therewith and automatically centering the members T and T' as they are drawn together. It will be noted that the member T is provided with screw holes T² through which screws may be passed to fasten the reel to a fixed object, this form of holder being adapted to be held without the resilient bracket member.

In operation, in adjusting the shell upon which the paper is wound and adapted to receive the members I and K in the form shown in Fig. 3 of the drawings, the concaved tapering circumferences of said members coming in contact with the ends of the shell and, when the two members are moved toward each other, they will automatically center and will be held frictionally against the ends of the shell R by the resilient arms of the bracket which will cause a sufficient friction to snugly hold the reel but which will allow the latter to turn freely as the paper is unwound. After the members I and K have been inserted in the ends of the reel, the spindles may be inserted in place by pushing the same against the inner faces of the arms which are slightly concaved and the arms being resilient will swing outward to allow the spindles to engage the holes, after which the arms will bear frictionally

against the outer ends of said members and cause the same to bear against the ends of the shell upon which the paper is wound.

What I claim to be new is:—

- 5 1. A holder for paper reels comprising two self-centering tapering members adapted to engage the opposite ends of a shell upon which a coil of paper is wound, spindles projecting from said members, a
10 bracket member having resilient arms which are apertured and in which said spindle ends are journaled, the extreme ends of said arms being concaved upon their inner faces and outwardly curved, as set forth.
- 15 2. A holder for paper reels comprising two self-centering members having concaved and tapering circumferences and cen-

trally apertured, a spindle fitted in one aperture and a rod passing through the other with its end projecting through the other 20 member, one end of said rod adapted to move freely in the aperture in which said spindle is mounted, a bracket member having resilient arms which are apertured to receive said spindle and projecting end of said rod, said 25 arms bearing frictionally against the outer faces of said members, as set forth.

In testimony whereof I have hereunto affixed my signature in presence of two witnesses.

CHARLES W. SMITH.

Witnesses:

GRACE M. ZIEM,
J. R. MCHARG.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
