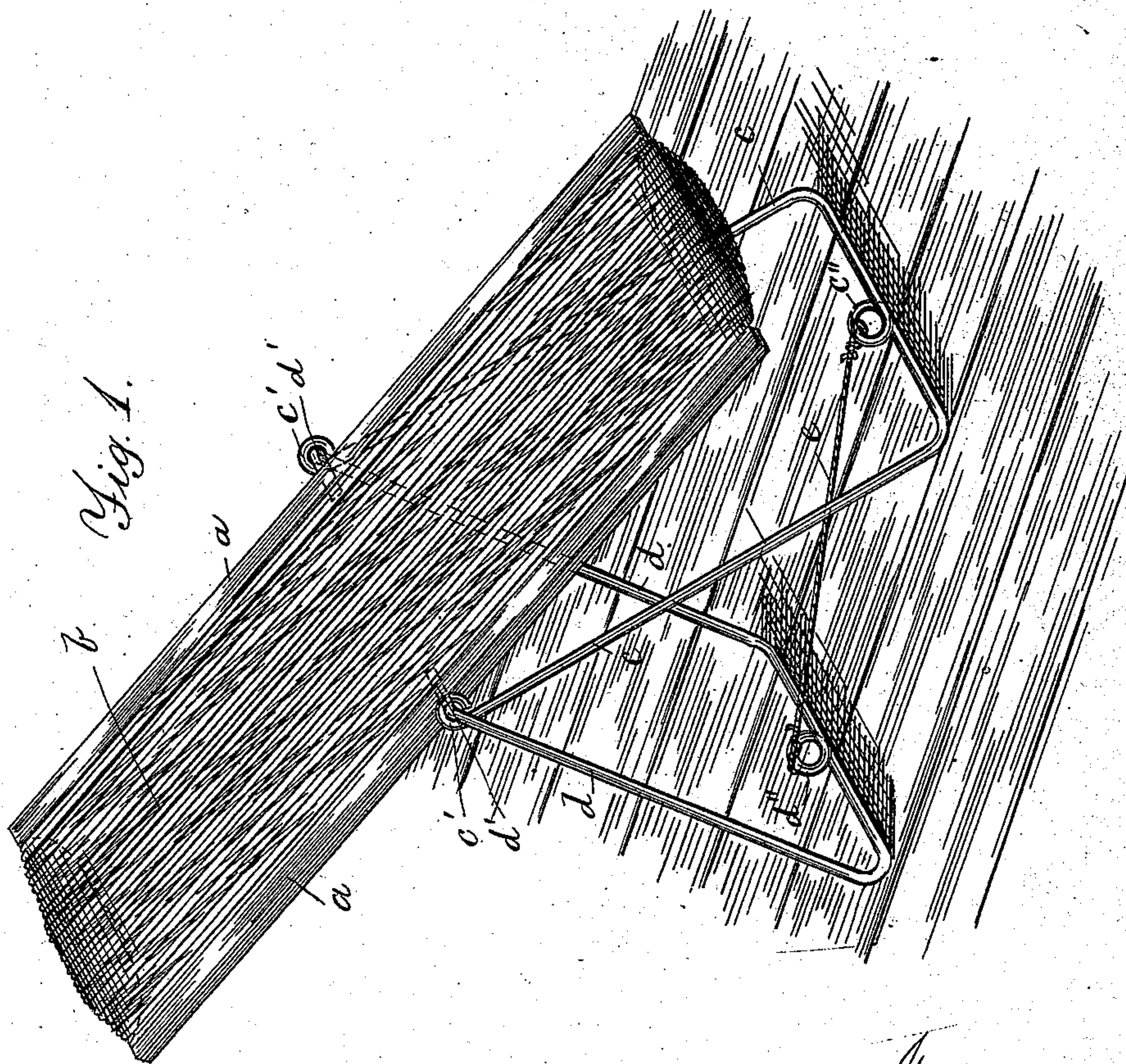
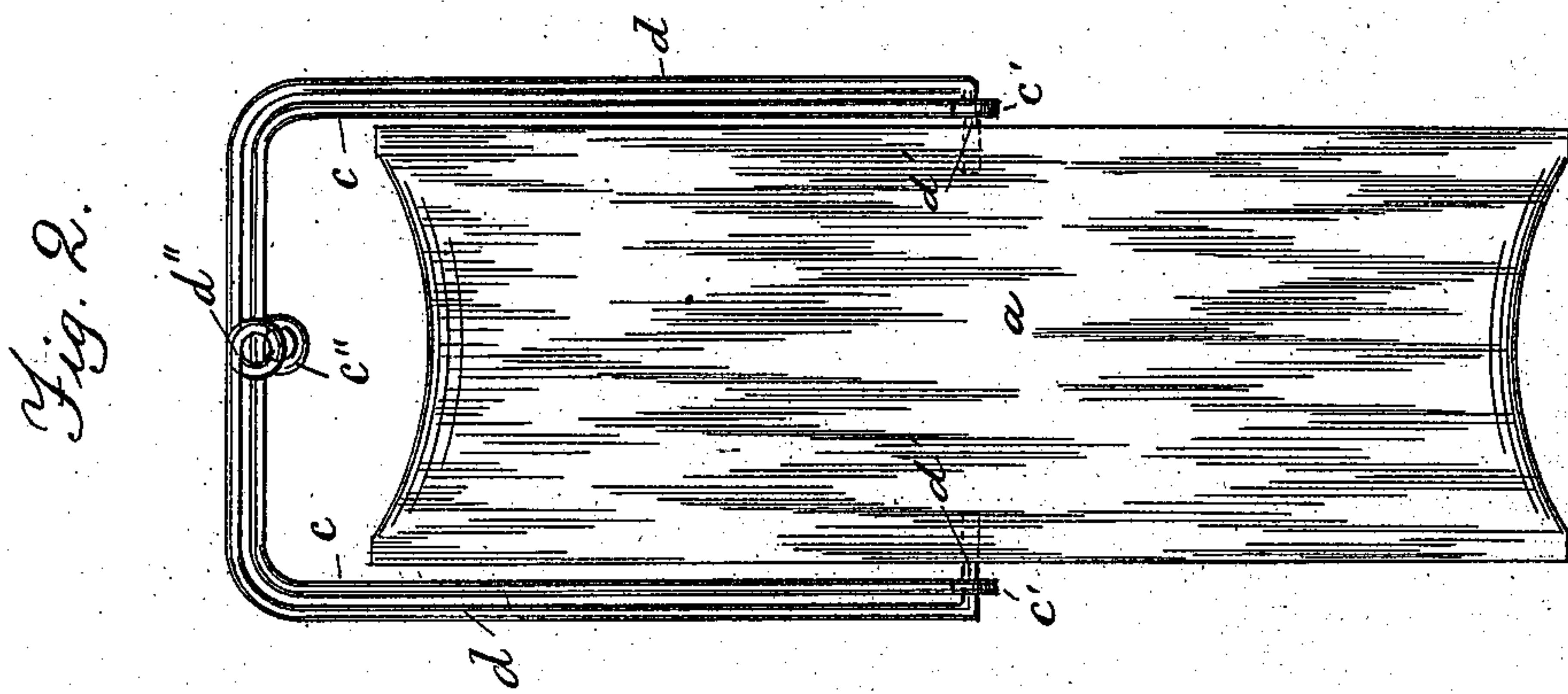


(No Model.)

G. F. HALL.
REEL SUPPORT.

No. 381,128.

Patented Apr. 17, 1888.



Witnesses.
H. L. Chapin.
Henry Chadbourn.

Inventor.
George F. Hall.
by *Alban Andren.*
his atty.

UNITED STATES PATENT OFFICE.

GEORGE F. HALL, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO THE NONANTUM WORSTED COMPANY, OF MASSACHUSETTS.

REEL-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 381,128, dated April 17, 1888.

Application filed October 19, 1887. Serial No. 252,783. (No model.)

To all whom it may concern:

Be it known that I, GEORGE F. HALL, a citizen of the United States, and a resident of Boston, in the county of Suffolk and State of Massachusetts, have invented new and useful Improvements in Reel-Supports, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention relates to improvements in reel-supports; and it has for its object to provide a light and portable support and frame for reels containing worsted yarn or similar spun materials. Heretofore such materials have generally been sold in skeins, which require unwinding before the worsted, &c., can be used for knitting, embroidery, or similar purposes. With my invention I propose to furnish to the trade worsted wound upon a flat reel that is pivoted upon a frame capable of being folded together for transportation, and thus to occupy but very little space; and when expanded it will serve as a proper support for the reel, enabling the yarn to be drawn directly from it as it is being used for knitting, embroidery, or similar purposes, without the need of winding it in the form of a ball, as is now commonly done when the yarn is bought in the form of skeins.

The invention is carried out as follows, reference being had to the accompanying drawings, wherein—

Figure 1 represents a perspective view of the device, showing the frame or support as expanded when used as a stand for the reel; and Fig. 2 represents a plan view of the device, shown as folded together for transportation or when suspended from above when in use.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

a is the flat reel, which may be made of wood, pasteboard, or other suitable material, and upon said reel is wound the worsted or yarn *b*, as shown in Fig. 1. This reel is suspended from or pivoted to the improved reel-support, which is constructed as follows: It is composed of a pair of bail-shaped wires, *c* and *d*, the former having loops or eyes *c'* *c'* in its upper end, and the latter having inwardly-bent ends or pivots *d'* *d'*, adapted to pass loosely through the eyes *c'* *c'* and to enter perforations in the

side edges of the reel *a*, as shown in the drawings, said bent ends *d'* *d'* serving as fulcrum on which the reel *a* may be turned freely when the yarn is drawn from the reel. The lower central portion of each bail *c* *d* is provided, respectively, with loops or eyes *c''* *d''*, which are suitably connected by means of a cord, wire, or suitable connecting device, *e*, which serves to prevent the undue spreading of the bails *c* *d*, when the latter are expanded for use as a reel-support, as shown in Fig. 1, in which position said support may be placed on a table or other piece of furniture for the operator to draw the yarn from the reel as it is being needed during the progress of the work. By means of said eyes *c''* *d''* the device may be suspended from any desired or convenient object in the room in the position shown in Fig. 2, if the operator should so prefer. Fig. 2 likewise represents the manner of folding the reel-support together when being transported, or packed away when not required for immediate use.

If so desired, both bails may be provided in their upper ends with eyes like the ones shown at *c'* *c'* in Figs. 1 and 2, and said eyes pivoted to the sides of the flat reel *a* by means of pins or nails passing through said eyes and driven into the side edges of the said flat reel; but the arrangement as shown in the drawings is preferable. When the device is used suspended from above only, without using it as a stand, one of the bails may be dispensed with; but I prefer to make the device with a pair of bails, *c* *d*, pivoted together and to the flat reel, as shown in the drawings, as by such arrangement it can be used as a support to be placed on a table, &c., as shown in Fig. 1, or in a suspended position, as shown in Fig. 2.

What I wish to secure by Letters Patent and claim is—

1. The bail-wires *c* *d*, pivoted together and having loops or eyes *c''* *d''*, in combination with the stay *e*, connecting said loops, and the flat reel *b*, pivoted to the bail-wires *c* *d* at their junction, substantially in a manner and for the purpose set forth.

2. The bail-wires *c* *d*, pivoted together by means of their respective eyes *c'* *c'* and inwardly-projecting pivots *d'* *d'*, in combination with the flat reel *b*, having recesses in its side edges

for the reception of the pivots $d' d'$, substantially as and for the purpose set forth.

3. The improved reel holding and supporting device, as described, consisting of the bent
5 wire c , having eyes $c' c'$ in its upper ends and loop or eye c'' in its lower end, and the bent wire d , having inwardly-bent pivots $d' d'$ in its upper end, adapted to pass through the eyes $c' c'$ and into the side edges of the flat reel a ,
10 combined with the stay-cord or equivalent device e , and the loops or eyes $c'' d''$ on the lower

portion of the folding supports $c d$, as and for the purpose set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 15th day of October, A. D. 1887.

GEORGE F. HALL.

Witnesses:

ALBAN ANDRÉN,
ALICE M. SNOW.