

(No Model.)

2 Sheets—Sheet 1.

T. FRELINGHUYSEN.
SPOOL HOLDER.

No. 486,866.

Patented Nov. 29, 1892.

Fig. 1.

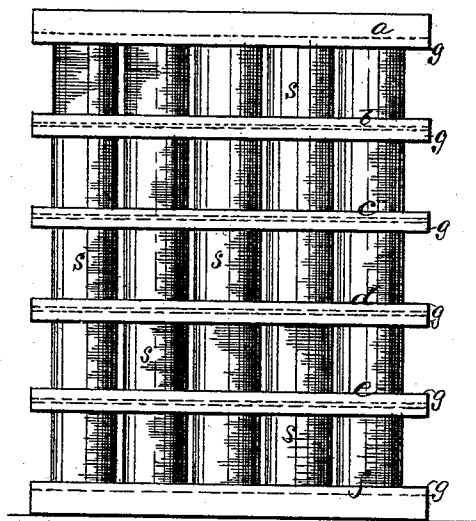


Fig. 3.

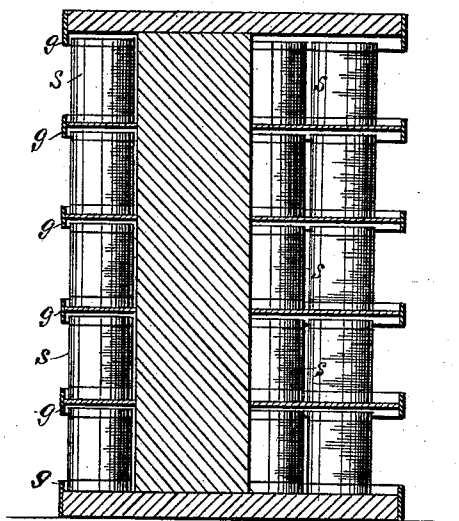


Fig. 2.

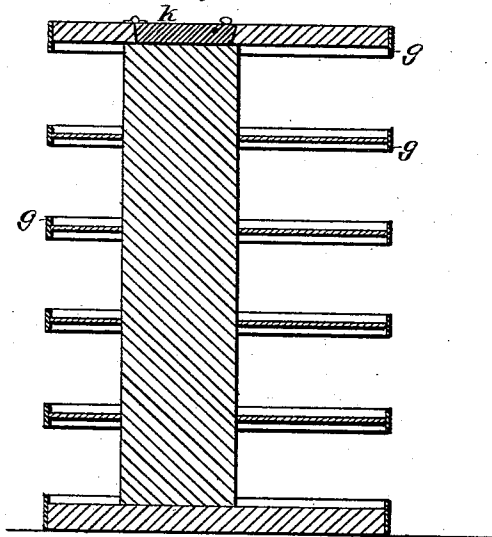
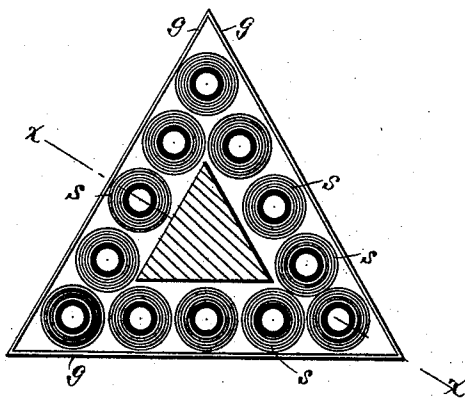


Fig. 4.



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Fig. 5

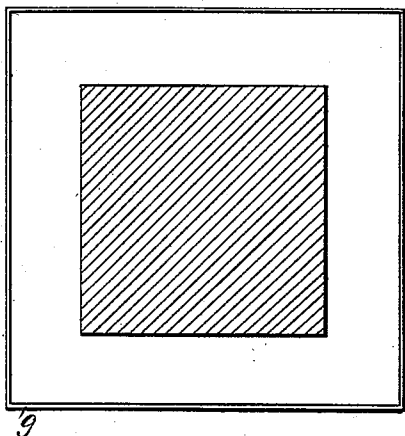


Fig. 6

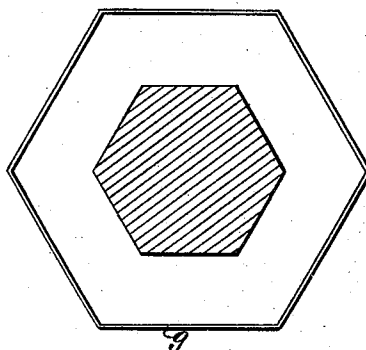


Fig. 7

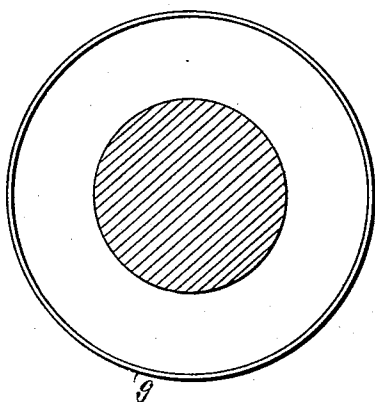


Fig. 8

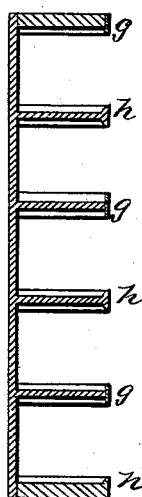
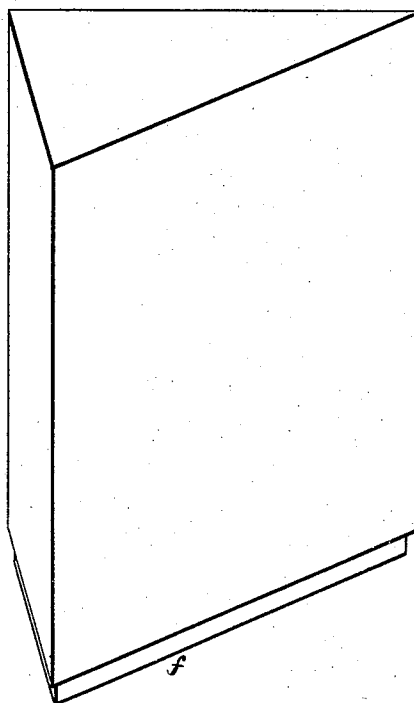


Fig. 9



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UNITED STATES PATENT OFFICE.

THEODORE FRELINGHUYSEN, OF NEW YORK, N. Y.

SPOOL-HOLDER.

SPECIFICATION forming part of Letters Patent No. 486,866, dated November 29, 1892.

Application filed May 5, 1892. Serial No. 431,896. (No model.)

To all whom it may concern:

Be it known that I, THEODORE FRELINGHUYSEN, of the city, county, and State of New York, have invented certain new and useful Improvements in Spool-Holders, of which the following is such a full, clear, and exact description as will enable others skilled in the art to which it most nearly appertains to make and use the same, when taken in connection with the accompanying drawings, in which—

Figure 1 is a face view. Fig. 2 is a vertical section on the line *x x*, Fig. 4, with the spools removed. Fig. 3 is a vertical section showing the spool in position. Fig. 4 is a cross-section. Fig. 5 is a cross-section of a modification. Fig. 6 is a cross-section of a modification. Fig. 7 is a cross-section of a modification. Fig. 8 is a vertical section of a modification. Fig. 9 is a cover or case which goes over the holder.

Heretofore before my invention spool-cotton and other spooled goods have been displayed and packed in boxes having divisioned partitions in them to keep the spools in regular order, so that they may be readily selected and taken out.

The nature of this my invention relates to the arrangement of shelves to receive the spools; and it consists in providing them with a flexible projection or edge to retain the spool on the shelf in any position of the shelf and the various arrangements and combinations herein-after specified and claimed.

My spool-holder I ordinarily make in the form of a triangle or wedge, the shelves being continuous on all sides, as shown in Figs. 1 and 4. The central portion consists of a box or block on each side whereof there is a series of shelves *a, b, c, d, e*, and *f*. Each shelf is provided at its edge with a flexible projection *g* from the face, so as to retain the spools upon the shelf unless they are removed forcibly.

The upper shelf or top *a* has a projection downward only and the lower shelf or bottom *f* has a projection upward only, while the intermediate shelves have projections both upwardly and downwardly, whereby the space between each of the shelves is provided with a projection or flange at the top and bottom, so as to retain the spools *f* in position on the shelf. The shelves are ordinarily made

only sufficiently wide to accommodate one row of spools. They may, however, be made wider without departing from the nature of my invention. The triangular or wedge shape form I have generally used, as it more readily packs without wasting room in the packing-box. I may, however, make my holder square, six-sided, polygonal, or round, as shown in Figs. 5, 6, and 7. The box or block at the center of the shelves may be used for the storage of spool-cotton or any other article, and such arrangement is shown in Fig. 2, where *k* is the cover of that central box. I generally provide a cover or case, as shown in Fig. 9, which incloses the entire spool-holder, excludes the dust, and retains the spools in position against the jars of packing, shipping, and travel.

The mode of operation is as follows: The spools are placed on the shelves and a strip of stiff paper, cloth, rubber, or other flexible material *q* is fastened to the edge of a shelf, so as to form the projections specified to retain the spools, or the strips may be applied and the spools introduced afterward, as desired, the strips being sufficiently flexible and elastic to permit the spools to be thus introduced on the shelves. To remove any particular spool, it is only necessary to pull the spool out between the flexible projections, which should be so made as to readily yield. It is manifest that the spools may be moved along on the shelf, so as to make one or more faces of the holder present an unbroken appearance. Thus the sides toward the customer may be kept full and make a good display, while the other sides are not full. New spools may be introduced at any time and the holder kept full, so as to avoid presenting an untidy appearance. I may vary the construction by making one of the projections or flanges rigid instead of flexible and depend upon the flexibility of the other projection for the introduction and removal of the spools. Such construction is shown in Fig. 8, where the parts *h* are rigid and the parts *g* are flexible, thus giving one flexible projection between each shelf.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a spool-holder, the combination of a block or box with two or more shelves, each

provided with a flexible projection toward the contiguous shelf, as specified.

2. In a spool-holder, the combination of a block or box with two or more continuous
5 shelves around the same, each provided with a flexible projection toward the contiguous shelf, as specified.

3. In a spool-holder, the combination of a

block or box with two or more continuous shelves, each provided with a flexible projection toward the contiguous shelf, and a cover or case, substantially as specified.

THEODORE FRELINGHUYSEN.

Witnesses:

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