

J. H. BOYE.

MEANS FOR AND METHOD OF DISPLAYING SEWING MACHINE BELTS.

APPLICATION FILED AUG. 31, 1908.

912,796.

Patented Feb. 16, 1909.

FIG. 1

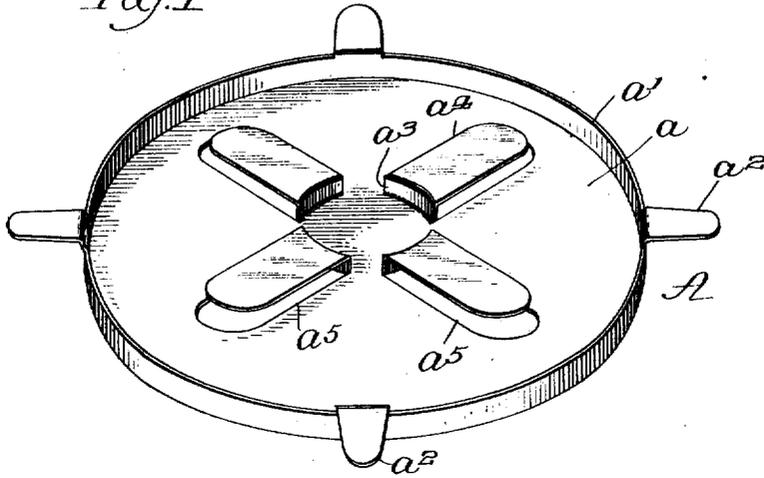


FIG. 2

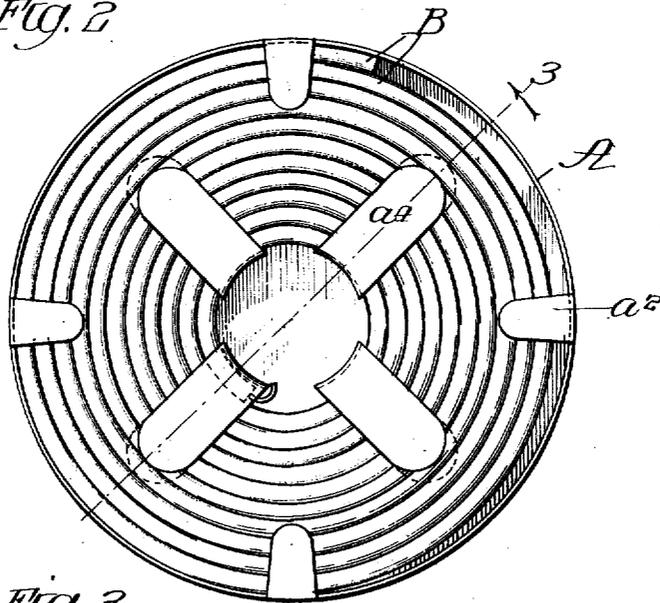
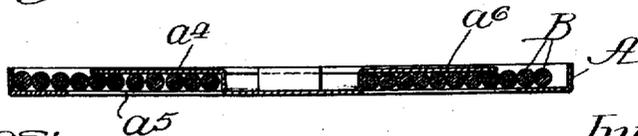


FIG. 3



Witnesses:
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UNITED STATES PATENT OFFICE.

JAMES H. BOYE, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE BOYE NEEDLE COMPANY, A CORPORATION OF ILLINOIS.

MEANS FOR AND METHOD OF DISPLAYING SEWING-MACHINE BELTS.

No. 912,796.

Specification of Letters Patent.

Patented Feb. 16, 1909.

Application filed August 31, 1908. Serial No. 450,985.

To all whom it may concern:

Be it known that I, JAMES H. BOYE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Means for and Methods of Displaying Sewing-Machine Belts, of which the following is a specification.

My invention relates particularly to a holder for and a method of displaying sewing machine belts; and my primary object is to provide a simple method of displaying sewing machine belts and simple means for practicing said method and protecting the belts.

Heretofore, it has been the common practice to display sewing machine belts, which are of circular cross-section, by hanging them up in stores, or by throwing them upon the counters, where they are exposed to dust and to injury from unnecessary handling and to deterioration from other causes. According to my improved method, the sewing machine belt is coiled compactly in convolute form, the convolutions lying in the same plane, the outer convolute being confined so that the inherent resiliency of the belt will tend to maintain it in its convolute form, and the belt is so held as to practically expose its several convolutions throughout their extent to view.

The invention is illustrated in the accompanying drawing, in which—

Figure 1 represents a perspective view of my improved sewing-machine-belt holder; Fig. 2 represents the same as it appears with a sewing machine belt confined therein; and Fig. 3 represents a sectional view as indicated at line 3 of Fig. 2.

In the illustration given, A represents a holder; and B, a sewing machine belt confined therein.

The holder A preferably comprises a shallow box of circular form having an annular channel of just sufficient depth to accommodate the convolutions of a sewing machine belt, assuming the convolutions to lie in the same plane. As shown, the holder comprises a circular disk a equipped peripherally with a laterally turned flange a^1 carrying belt-retaining means a^2 , and provided with a central lateral bearing a^3 equipped with belt-retaining means a^4 . The holder may be

formed from sheet metal in the form shown in Fig. 1, from which it appears that the belt-retaining means a^2 , carried by the flange a^1 , comprises prongs, or retainers, which normally project outwardly from the free edge of the flange in a plane parallel with the disk a ; and the central bearing a^3 comprises segments, and the belt-retaining means a^4 comprises radially projecting flanges, or retainers, carried by said segments. The segments comprising the central bearing a^3 and the retainers carried by said segments may be formed by shearing the metal of the disk so as to form arms in the form of a cross and stamping said arms inwardly, thus forming the segments from the base-portions of the arms of the cross, the extremities of the arms extending outwardly and lying in a plane parallel with the disk a to provide the retainers a^4 . This operation leaves the disk provided with radial slots a^5 . The segments which comprise the central bearing, or hub, project from the disk a distance approximately equal to the width of the flange a^1 , thus providing a shallow annular channel a^6 between the hub and the flange, said channel being of a depth substantially equal to the diameter of a cross-section of the sewing machine belt. The distance from the central bearing or hub to the flange is just great enough to receive the convolutions of the belt B.

The operation of inserting the belt is performed by winding the belt upon the central bearing or hub while the holder is in the condition shown in Fig. 1. When this operation is completed, the outer convolution of the belt is confined within the flange a^1 , and the resiliency of the belt, or its tendency to unwind, aids in confining the belt to its annular channel. This is true, regardless of the presence or absence of the retainers a^2 and a^4 . After the winding operation is completed and the belt inserted, the retainers a^2 may be bent inwardly, as shown in Fig. 2, to aid in retaining the belt in position. The retainers a^2 and a^4 serve to prevent dislodgment of the belt, regardless of any severe handling which the package may receive, while they do not interfere with the inspection of the convolutions of the belt practically throughout the length of the belt. The belt may also be viewed, to a

greater or less extent, depending upon the size of the slots a^5 , from the rear side of the holder.

My method of displaying sewing machine belts, and my improved holder for use in practicing said method, enables the belt to be substantially protected, while still open to inspection, and also enables belts to be compactly and neatly stored.

The foregoing detailed description has been given for clearness of understanding only, and no undue limitation should be understood therefrom.

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

1. A sewing-machine-belt holder, comprising a disk having a short central bearing projecting from one side thereof and equipped with integrally formed belt-retaining means.

2. A sewing-machine-belt holder, comprising a circular disk having a narrow lateral flange at its periphery and a cen-

tral bearing concentric with said flange, equipped with integrally formed belt-retaining means.

3. A sewing-machine-belt holder, comprising a circular disk having a lateral flange at its periphery equipped with belt-retainers projecting from its free edge, and a central bearing concentric with said flange equipped with belt-retainers projecting therefrom.

4. A sewing-machine-belt holder, comprising a circular disk having a lateral flange at its periphery and a central bearing equipped with belt-retaining means, comprising segments and retainer-arms formed integrally therewith, said segments and retainer-arms stamped from the material of said disk.

JAMES H. BOYE.

In presence of—

J. G. ANDERSON,
R. A. SCHAEFER.