

Patented May 12, 1925.

1,537,585

UNITED STATES PATENT OFFICE.

GUSTAV A. CARLSON, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE BOYE NEEDLE COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

SEWING-MACHINE-BELT PACKAGE AND METHOD OF MANUFACTURE.

Application filed December 17, 1921. Serial No. 523,142.

To all whom it may concern:

Be it known that I, GUSTAV A. CARLSON, 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 Sewing-Machine-Belt Packages and Methods of Manufacture, of which the following is a specification.

This invention relates particularly to a belt package and a method of packaging belts. The invention is particularly useful in connection with the merchandizing of sewing-machine belts.

The invention is illustrated in its preferred embodiment in the accompanying drawing, in which—

Fig. 1 represents a vertical sectional view illustrating the manner in which a sewing-machine belt is wound on a shaft between two packaging-disks; Fig. 2, a broken plan view of the means shown in Fig. 1; Fig. 3, an elevational view of a package with the belt wound therein, this view showing the manner in which a sealing-strip is applied to connect the disks together and provide a circumferential wall; Fig. 4, a broken sectional view taken as indicated at line 4 of Fig. 3; and Fig. 5, a broken sectional view taken as indicated at line 5 of Fig. 3.

In the illustration given, A represents a belt-winding shaft; B, a package for the belt; and C, a sewing-machine belt.

The package comprises a pair of stiff disks 1 which preferably are composed of cardboard; and a flexible binding-strip 2 which is folded over the peripheral portions of the disks and secured thereto by a suitable adhesive.

The method of packaging the belt will be readily understood. The disks 1 are provided centrally with a shaft-opening 1^a and with key-slots 1^b. The disks are slipped onto the shaft A, which is provided with keys 3 which are received by the slots 1^b, the disks thus being removably keyed to the shaft. The belt C is provided at one end with a hook 5 which engages one of the keys or splines 3. The winding of the belt between the disks 1, which are suitably spaced with respect to each other, is effected by rotating the shaft, while the belt C is held taut. The space between the disks is such that the belt is wound in evolute form in a single plane. When the winding of the belt is completed, the binding-strip 2 is applied. This may be

done by gumming one end of the strip to the marginal portions of the disk and then slowly rotating the shaft to cause the package to rotate, while the operator folds the lateral edge portions of the strip over the margins of the disks and cements them in place. A previously gummed strip, suitably moistened, may be employed, and, by the means described, may be readily applied to seal the package. After the package is complete, it may be slipped off the shaft.

In Fig. 2, the pasteboard disks 1 are shown clamped between two metal disks 6 which are mounted on the shaft or arbor A. One of the disks 6 is shown provided with a transverse cut or slot 6^a in one of its sides, giving the effect of a split ring, whereby the disk is clamped on the end portion of the arbor. The disk may be readily removed, however, to enable the package to be withdrawn from the arbor. The pasteboard disks 1 are preferably provided with segmental openings 1^c which are separated from the central opening 1^a by the hub portions 1^d of the disks.

The openings 1^c enable the coiled belt to be viewed. The outsides of the pasteboard disks 1 may be covered with paper and suitably ornamented, or may carry such advertising designs (not shown) as may be desired. The form of the package itself is novel and presents a pleasing design. The belt may, if desired, be removed from the package by unwinding it thru the central opening of one of the cardboard disks. This may be accomplished by withdrawing the inner end of the belt thru the central opening and then "paying out" the belt thru the central opening. The belt may be inspected and then returned by a reverse coiling operation, if desired.

The improved package is simple, cheap and distinctive; and the packaging operation may be performed very cheaply. The improved package not only affords a distinctive design of package but also enables the belt to be viewed thru the lateral openings 1^c.

The foregoing detailed description has been given for clearness of understanding only and no unnecessary limitations should be understood therefrom.

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

1. The method of packaging a sewing-machine belt which comprises winding the

belt in a single layer on a shaft between two unconnected package-forming disks, then securing the outer margins of said disks together, and then removing the package
5 from said shaft.

2. The method of packaging a sewing-machine belt which comprises winding the belt in a single layer on a shaft between two unconnected package-forming disks, apply-
10 ing an adhesive tape to the circumferential margins of said disks to connect the disks and provide a circumferential wall, and then removing the package from said shaft.

3. The method of packaging a sewing-
15 machine belt which comprises mounting a pair of package-forming disks on a shaft, rotating the shaft and winding a belt thereon between said disks, securing one end of a gummed tape to the circumferential por-
20 tions of said disks at one point and rotating the disks and folding the gummed tape over and causing it to adhere to the margins of said disks.

4. A sewing-machine belt package com-
25 prising a pair of disks of cardboard, or the like, separated by a narrow space, and provided with central openings whose walls are provided with notches, and a circumferen-

tial adhesive tape connecting the outer marginal portions of said disks and affording a
30 circumferential wall.

5. A package for the purpose set forth, comprising a pair of disks of pasteboard, or the like, separated by a narrow space,
35 said disks having central perforations therein whose walls are provided with notches and at least one of said disks having openings grouped about its hub portion, and a paper-strip forming a circumferential wall
40 for the package, said strip having its lateral portions folded over and cemented to the marginal portions of said disks.

6. A sewing-machine belt package comprising a pair of annular cardboard disks whose inner peripheries are unconnected, a
45 sewing-machine belt wound in a single layer and filling the space between said disks, and a circumferential adhesive tape applied by rotation of the package and caused to ad-
50 here to and connect the outer marginal portions of said disk and thus afford a circumferential wall, the belt being removable through the center opening of one of said disks.

GUSTAV A. CARLSON.