

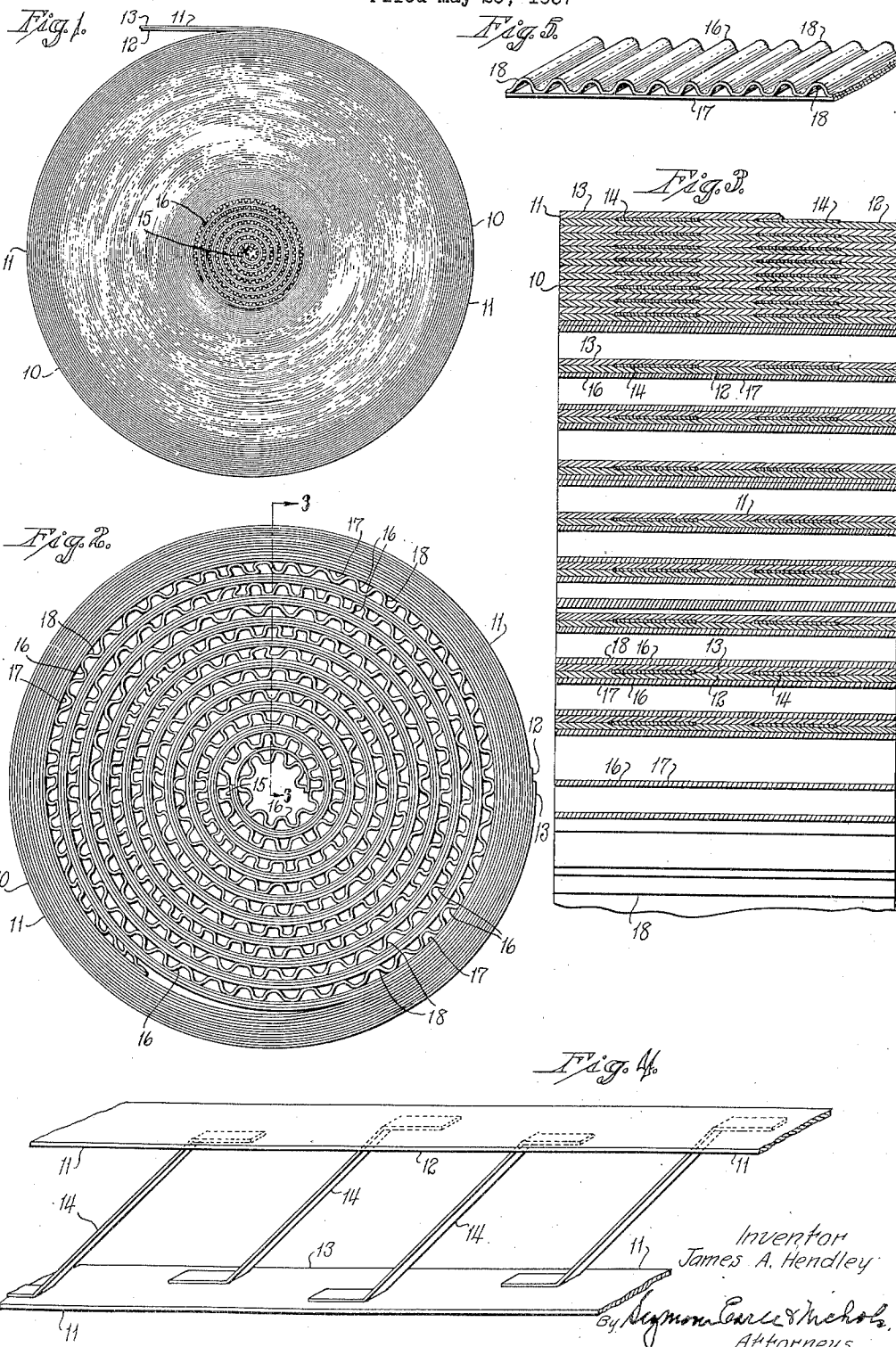
Nov. 1, 1938.

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2,134,918

VENETIAN BLIND LADDER WEB ROLL CONSTRUCTION

Filed May 25, 1937



UNITED STATES PATENT OFFICE

2,134,918

VENETIAN BLIND LADDER-WEB ROLL CONSTRUCTION

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Application May 25, 1937, Serial No. 144,591

2 Claims. (Cl. 206—59)

This invention relates to improvements in ladder-web roll constructions, and more particularly to the central or core portion thereof.

In reeling Venetian blind ladder web into a roll for shipment, there is liable to be permanent distortion of the inner end portion of the roll of ladder web beyond its elastic limit, with the consequence that when an attempt is made to straighten out the innermost portion of the roll for use, it is liable to be found that this portion of the roll of tape has been so permanently distorted beyond its elastic limit as to make it not feasible for use.

One object of this invention is to provide an improved Venetian blind ladder-web roll construction in which the central or core portion thereof has strip material wound in a spiral along with the inner end portion of the ladder web, to have the strip material form a yielding means to minimize the tendency of portions of the ladder web to permanently stretch or distort beyond the elastic limit of the web.

Another object of this invention is to provide an improved Venetian blind ladder-web roll construction in which the central or core portion thereof has strip material wound in a spiral along with the inner end portion of the ladder web, to aid in permitting the reeling of a maximum quantity of ladder web with minimum tendency to permanently stretch the latter beyond its elastic limit.

A still further object of this invention is to provide an improved Venetian blind ladder-web roll construction, in which the central or core portion thereof has strip material wound in a spiral along with the inner end portion of the ladder web, to permit of having a relatively-small hole through the central or core portion to suitably fit a relatively-small diametered reel-bar for use in holding the roll of ladder web while portions are being unrolled therefrom, with minimum tendency to permanently stretch the core end of the ladder web beyond its elastic limit.

With the above and other objects in view, as will appear to those skilled in the art from the present disclosure, this invention includes all features in the said disclosure which are novel over the prior art.

In the accompanying drawing, in which certain ways of carrying out the invention are shown for illustrative purposes:

Fig. 1 is a side elevation of a roll of Venetian blind ladder web embodying the present invention;

Fig. 2 is an enlarged view similar to Fig. 1 of the central or core portion thereof;

Fig. 3 is a sectional view on line 3—3 of Fig. 2;

Fig. 4 is a perspective view of a portion of ladder tape; and

Fig. 5 is a perspective view of a portion of strip material used for winding in a spiral along with the inner end portion of ladder web.

In the description and claims, the various parts are identified by specific names for convenience, but they are intended to be as generic in their application as the prior art will permit.

Referring to Figs. 1 to 5 of the drawing, the roll 10 of Venetian blind ladder web has the ladder tape 11 (Fig. 4) formed of the usual two main tapes 12, 13 interconnected by the cross-tapes 14. In reeling up the ladder web to form the roll 10, the inner end 15 of the ladder web is wound in a spiral along with a strip of material 16 (Fig. 5) which is preferably soft or yielding, and in the present instance is formed of single corrugated cardboard formed of a flat strip of cardboard or paper 17 with the corrugated strip of paper or cardboard 18 adhered thereto. If desired, the strip may consist of a plurality of layers or strips of corrugated cardboard or other suitable material, instead of a single layer or strip. By rolling the end 15 of the ladder web along with the strip 16, it will be observed that the ladder web 11 is cushioned between turns of the yielding strip 16, thereby minimizing any tendency to excessive localized stresses which would tend to distort portions of the web 11 beyond its elastic limit, with consequent permanent distortion. It will also be observed that by this construction, the central portion of the ladder web 11 can be wound in a smaller coil or spiral than would otherwise be permissible in the absence of the yielding or cushioning effect of the strip 16. The presence of the strip 16 forms an improved roll construction which requires a less length of web to be present in a given diameter of the core or center portion of the roll and thus risks permanent distortion of a minimum quantity of the web.

The invention may be carried out in other specific ways than those herein set forth without departing from the spirit and essential characteristics of the invention, and the present embodiments are, therefore, to be considered in all respects as illustrative and not restrictive, and all changes coming within the meaning and equivalency range of the appended claims are intended to be embraced therein.

I claim:

1. A Venetian blind ladder web or the like roll construction having two broad main tapes with spaced-apart cross tapes interconnecting the main tapes and comprising: the said ladder web wound in a spiral, with relatively-thick yielding strip material wound in a spiral only along with the inner end portion of said ladder web, and said inner end portion constituting only a small fraction of the total length of ladder web in the roll.
2. A Venetian blind ladder web or the like roll construction having two broad main tapes with spaced-apart cross tapes interconnecting the main tapes and comprising: the said ladder web wound in a spiral, with flexible corrugated strip material wound in a spiral only along with the inner end portion of said ladder web, and said inner end portion constituting only a small fraction of the total length of ladder web in the roll.

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