Sept. 4, 1951 G. J. DORUSAK 2,566,760

TIE KNOT FORM

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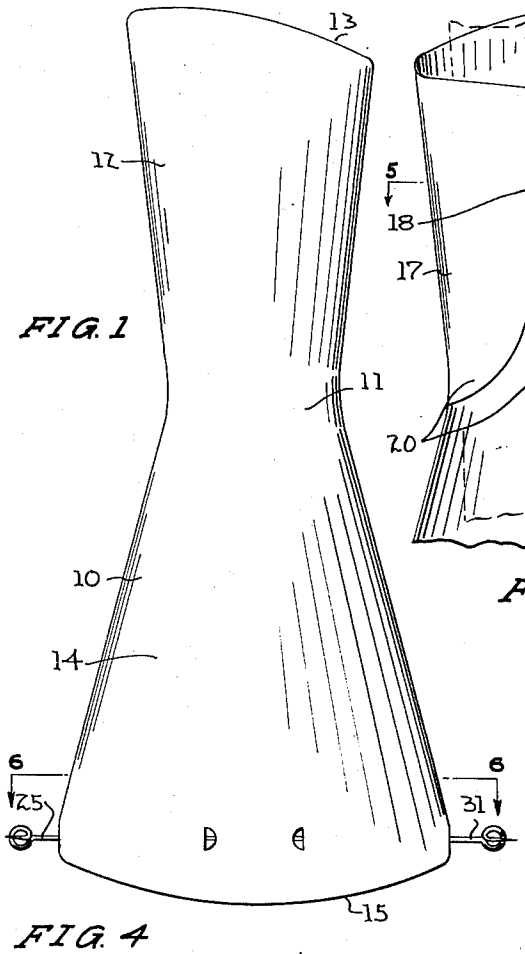


FIG. 1

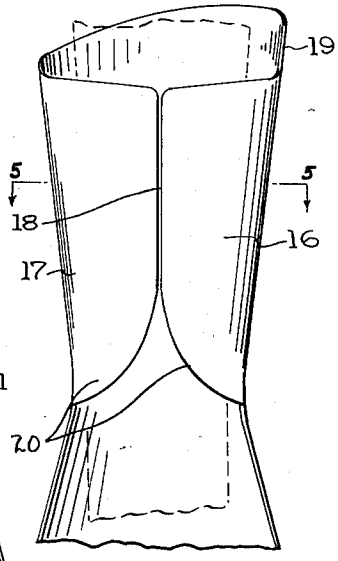


FIG. 3

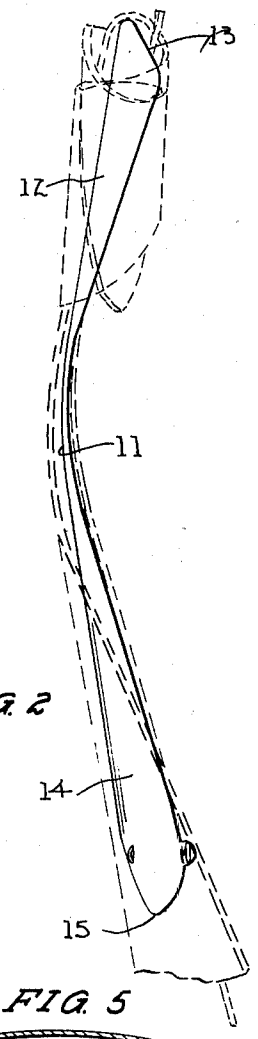


FIG. 2

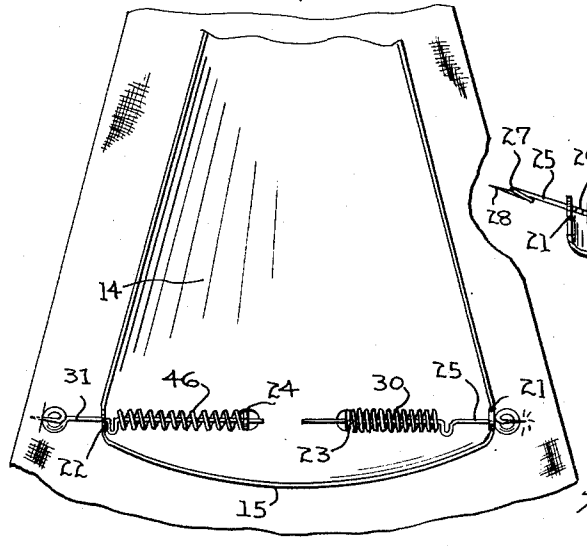


FIG. 4



FIG. 5

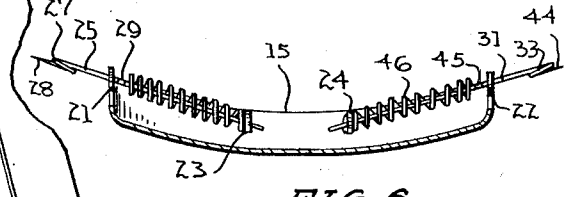


FIG. 6

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TIE KNOT FORM

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4 Claims. (Cl. 2—153)

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This invention relates to tie knot forms and more particularly to a form for a four-in-hand tie knot to hold such a knot and the adjacent portions of the tie in proper shape and position.

It is among the objects of the invention to provide an improved tie knot form which can be comfortably worn and is completely concealed by the tie when in operative position in a tie knot; which includes means engageable with a tie adjacent a knot in which the form is included for holding the tie in proper shape and position, which, while improving the shape and increasing the neatness of a tie knot, still produces a knot of natural appearance; and which is of light weight and rigid construction, economical to manufacture and durable in use, and easy to incorporate into a hand tied knot.

Other objects and advantages will become apparent from a consideration of the following description and the appended claims in conjunction with the accompanying drawing wherein:

Figure 1 is a front elevational view of a tie knot form illustrative of the invention;

Figure 2 is a side or edge elevational view of the form showing the manner of incorporating the form in a tie knot;

Figure 3 is a rear elevational view of a fragmentary upper portion of the form;

Figure 4 is a rear elevational view of a fragmentary lower portion of the form showing the manner in which this portion of the form is engaged with an associated tie;

Figure 5 is a transverse cross sectional view on the line 5—5 of Figure 3; and

Figure 6 is a transverse cross sectional view on the line 6—6 of Figure 1.

With continued reference to the drawing, the form comprises a substantially rigid body 10 formed of a light weight and resilient sheet material, such as a suitable sheet metal, synthetic resin plastic or Celluloid, of elongated shape and transversely curved throughout its length on a flat curvature having a radius much greater than the width of the body. Intermediate its length the body is longitudinally curved to provide an intermediate bend, as indicated at 11 in Figure 2, this longitudinal bend or curvature being concave at the rear or transversely concave side of the body.

The body includes an upper end portion 12 which tapers in width toward the transverse bend 11 and has one side somewhat longer than the other and a convexly curved edge 13 at its wider, distal end. The body also includes a lower end portion 14 longer and wider than the upper end portion 12 and also tapering in width toward the intermediate bend 11. This lower end portion 14 has a symmetrically curved edge 15 at its distal end and the two end portions fair into each

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other at their narrower ends along smooth curves, as clearly illustrated in Figure 1.

The upper end portion 12 is provided at its respectively opposite sides with wings 16 and 17 which are curved along the corresponding side edges of this end portion to overlie the concave or rear surface of the end portion with their longitudinal edges contiguous to each other along the mid-width location of the end portion, as indicated at 18 in Figure 3.

These folded over wing portions 16 and 17 constitute the upper end portion 12 of the form, a hollow body having a cross sectional shape somewhat in the form of an elongated ellipse and tapering in a direction away from its outer or distal end to closely simulate the shape and size of a four-in-hand tie knot.

The end edges of the wings 16 and 17 nearest the outer or distal end of the upper end portion 12 of the form are substantially in alignment with each other transversely of the form, as illustrated in Figure 3, so that the longer side edge of this upper end portion of the form extends upwardly from the adjacent end edge of the wing 16, as illustrated in Figure 3 and indicated at 19, and the inner end edges of the wing near the smaller end of the end portion 12 are curved outwardly away from each other, as indicated at 20.

The end portion 14 is provided near its larger or distal end with apertured lugs 21 and 22 which project in a direction away from the concave side of the end portion, one at each longitudinal edge of the latter and is also provided with spaced apart tongues 23 and 24 disposed between the lugs 21 and 22.

A pin 25 is slidably received in the apertures in the lug 21 and the tongue 23 and is provided at one end and outside of the lug 21 with a convoluted formation 27 and a pointed end 28.

An offset bend 29 is provided in the pin 25 adjacent the inner side of the lug 21 and a coiled compression spring 30 surrounds the pin between the offset 29 and the tongue 23 to resiliently urge the pin outwardly of the corresponding portion of the tie knot form, movement of the pin outwardly of the form by the spring 30 being limited by contact of the offset 29 with the lug 21.

A pin 31 similar to the pin 25 is mounted in the apertures of the lug 22 and the tongue 24 and has a convoluted portion 33 and pointed end 44 disposed outwardly of the lug 22. An offset bend 45 is provided in the pin adjacent the lug 22 and a coiled compression spring 46 surrounds the pin between the tongue 24 and the offset 45 and resiliently urges the pin outwardly of the form. Movement of this pin outwardly of the form by the spring 46 is limited by engagement of the offset 45 with the lug 22.

At its larger or distal end the end portion 14 of

the form is provided with a convexly rounded end wall, as clearly illustrated in Figure 2.

In order to incorporate the form into a four-in-hand tie knot, the tie is first placed about the collar and the form is positioned adjacent the collar with its rear or concave side facing the latter. The narrower end of the tie is then inserted through the hollow, upper end portion of the form and pulled through this end portion to the desired extent. The other end of the tie is then wrapped around the upper end portion one and one half times to the rear side of this end portion and is then brought over the top of the upper end portion of the form and inserted between the upper end portion and the portion of the tie wrapped around and extending across the front or convex surface of the upper end portion. The wider end of the tie is then pulled downwardly until the knot is pulled tight around the form. The knot is then properly shaped and adjusted and the wrinkles in the material of the tie removed, after which the pins 25 and 31 are engaged with the wider portion of the tie overlying the lower end portion 14 of the frame. The pins are first manually depressed inwardly of the form and their pointed ends are engaged with the tie at the correspondingly opposite sides of the form. When the pins are then released the springs 30 and 46 urge the pins outwardly stretching the corresponding portion of the tie across the outer or front surface of the form. The form will then hold the tie knot in proper shape and adjustment and will also hold the portion of the tie adjacent the knot in proper position and in a spread out and unwrinkled condition.

The invention may be embodied in other specific forms without departing from the spirit or essential characteristics thereof. The present embodiment is, therefore, to be considered in all respects as illustrative and not restrictive, the scope of the invention being indicated by the appended claims rather than by the foregoing description, and all changes which come within the meaning and range of equivalency of the claims are, therefore, intended to be embraced therein.

What is claimed is:

1. A tie knot form comprising an elongated body of sheet material having a longitudinal bend intermediate its length and having one end portion transversely bent and folded to provide a hollow formation tapering toward said longitudinal bend and closely simulating the size and shape of a four-in-hand tie knot, the other end portion of said form being tapered in width toward said longitudinal bend and transversely curved, pins slidably mounted in said other end portion and extending transversely of the latter with their pointed ends projecting outwardly of said form one at each longitudinal edge of the latter, springs acting one between each of said pins and said form resiliently urging said pins outwardly of the form, and stop means acting between said pins and said form limiting movement of said pins outwardly of said form by said springs.

2. A tie knot form comprising an elongated body of sheet material having one end wider than the other and tapering from both ends toward a location intermediate the length thereof but nearer the end of less width to provide an upper end portion and a lower end portion larger than said upper end portion, said body being transversely curved throughout its length and said upper end portion including wings disposed one at each longitudinal edge of the intermediate part thereof and bent over the concave surface of said intermediate portion with their distal edges contiguously disposed adjacent the mid-length location of the latter, said wings being spaced from said intermediate portion to constitute said upper end portion a hollow formation for receiving a tie end.

3. A tie knot form comprising an elongated body of sheet material having one end wider than the other and tapering from both ends toward a location intermediate the length thereof but nearer the end of less width to provide an upper end portion and a lower end portion larger than said upper end portion, said body being transversely curved throughout its length and said upper end portion including wings disposed one at each longitudinal edge of the intermediate part thereof and bent over the concave surface of said intermediate portion with their distal edges contiguously disposed adjacent the mid-length location of the latter, said wings being spaced from said intermediate portion to constitute said upper end portion a hollow formation for receiving a tie end, said body having a bend at said location intermediate the length thereof so disposed that said body is transversely concave and longitudinally concave on the same side, and said end of less width being inclined so that one side of said upper end portion is longer than the other side.

4. A tie knot form comprising an elongated body of sheet material having one end wider than the other and tapering from both ends toward a location intermediate the length thereof but nearer the end of less width to provide an upper end portion and a lower end portion larger than said upper end portion, said body being transversely curved throughout its length and said upper end portion including wings disposed one at each longitudinal edge of the intermediate part thereof and bent over the concave surface of said intermediate portion with their distal edges contiguously disposed adjacent the mid-length location of the latter, said wings being spaced from said intermediate portion to constitute said upper end portion a hollow formation for receiving a tie end, said body having a bend at said location intermediate the length thereof so disposed that said body is transversely concave and longitudinally concave on the same side, and said end of less width being inclined so that one side of said upper end portion is longer than the other side, pins carried by said lower end portion at the concave side and near the distal end thereof with their pointed ends projecting from said lower end portion at respectively opposite sides of the latter, and spring means acting between said body and said pins resiliently urging said pins outwardly of said body to a predetermined extent.

GEORGE J. DORUSAK.

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