Aug. 23, 1966 R. PHILLIPS ET AL 3,267,489

NECKTIE CLIP

Filed Sept. 20, 1965

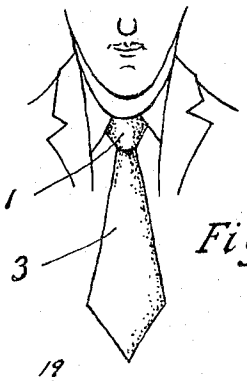


Fig. 1

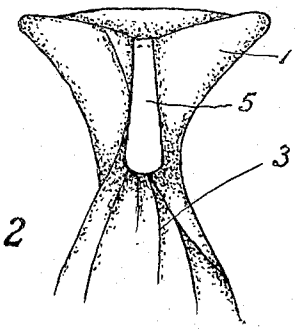


Fig. 2

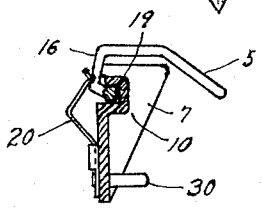


Fig. 4

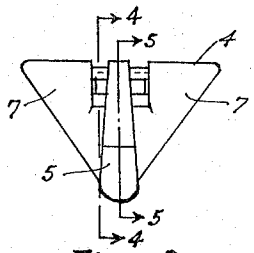


Fig. 3

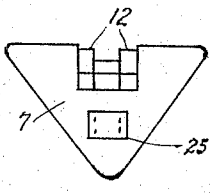


Fig. 6

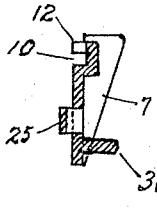


Fig. 10

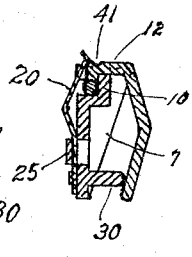


Fig. 5

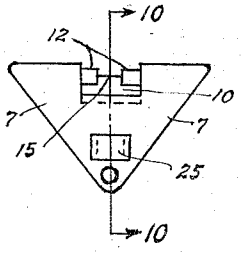


Fig. 9

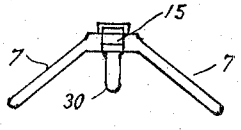


Fig. 7

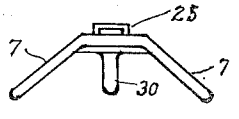


Fig. 8

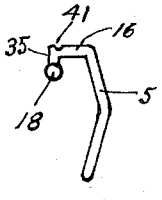


Fig. 12

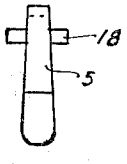


Fig. 11

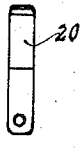


Fig. 13

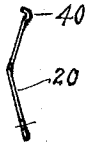


Fig. 14

United States Patent Office 3,267,489 Patented August 23, 1966

3,267,489

NECKTIE CLIP

Robert Phillips, Roslyn, and Cosmo Centrella, West Hempstead, N.Y., assignors to Redi-Knot Tie Clip Corporation, New York, N.Y.

Filed Sept. 20, 1965, Ser. No. 488,648
6 Claims. (Cl. 2—153)

The present invention relates to the field of permanently tied, or hook-on necktes of the four-in-hand drape type. More particularly it relates to the improved form of support clip for the folds of the knot of the permanently tied neck-tie. The tie support clip is so formed that the folds of the knot enclose the frame of the support and only the collar attaching hook member extends rearwardly from the knot.

Many of the prior art supports and clips employ a plurality of metal parts both inside the folds of the tie and outside, such as the hook element, which attaches the tie to the neck-band. These metal parts tend to corrode and discolor the neckband as well as the neck of the user.

It is, therefore, the principal object of this invention to form substantially the entire support or clip including the frame and hook member from non metallic, and non-corrosive material.

Another object of the invention is to so shape the frame of the support that it will support a knot of a width suitable for wide spread collars and in which the hook means for attaching the same to the neckband is completely concealed from view when in normal wearing position.

Still another object of the invention is the provision of improved necktie form construction in which the parts are few and easily and quickly assembled whereby the cost of fabrication is reduced to a minimum, with consequent wide distribution and use.

Still another object of the invention is to form a new and improved type of support or tie clip wherein the plastic hook member is pivoted directly to the plastic frame member without the use of metal socket-forming members.

These and other objects and advantages of this invention will hereinafter appear and for purposes of illustration, but not of limitation, an embodiment of the invention is shown in the accompanying drawings.

FIGURE 1 is a fragmentary view in perspective showing an embodiment of the present invention supported on the neckband of the shirt of the user.

FIGURE 2 is a rear view in elevation showing the permanently tide knot of the necktie embodying the present invention.

FIGURE 3 is a view in elevation showing the completely assembled tie support as viewed from the rear.

FIGURE 4 is a section on the line 4—4 of FIGURE 3 with the hood pivoted into open position.

FIGURE 5 is a section on the line 5—5 of FIGURE 3.

FIGURE 6 is a view in elevation showing the necktie form as viewed from the front.

FIGURE 7 is a view of FIGURE 6 from the top.

FIGURE 8 is a view of FIGURE 6 from the bottom.

FIGURE 9 is a view in elevation showing the necktie form as viewed from the rear.

FIGURE 10 is a section on the line 10—10 of FIGURE 9.

FIGURE 11 is a rear view of the collar hook element.

FIGURE 12 is a side view of the collar hook element of FIGURE 11.

FIGURE 13 is a front view of the metal spring element.

FIGURE 14 is a side view of the metal spring element of FIGURE 13.

Proceeding next to the drawings wherein like references indicate the same parts throughout the various views, a specific embodiment of this invention will be described.

FIGURES 1 and 2, show the invention applied to a four-in-hand type tie wherein the knot 1 encloses all parts of the invention except the supporting hook 5 which extends downwardly to the upper end of the drape 3.

The new and improved clip is fully illustrated in FIGURES 3 to 14 wherein FIGURES 3, 4, and 5 show the tie clip in complete assembly. The clip comprises only three parts, namely, the frame element 4, hook 5, and spring 20. The frame 4 and the hook element 5 are formed of substantially rigid plastic such as polyethylene, polymethyl methacrylate, and polyvinyl chloride. The frame member 4 has an overall triangular shape with an apex at the bottom. It has an upwardly extending central portion from said apex and triangular wing-like side portions extending rearwardly, with their upper edges lying substantially in a common plane. The lower end of the central portion has a forwardly extending pintle 30 which normally coacts with the hook element 5. The upper end of said central portion has integrally formed therewith a forwardly opening socket 10 forming an axle bearing. The socket includes a bottom portion and spaced upper rearwardly directed side portions 12 overlying the bottom portion and defining the sides of an upwardly opening notch 15. The plastic hook element 5 comprises a downwardly extending body with the upper end of the body terminating in a rearwardly extending hook portion including portions 16 bent to define two approximately right angles. One of the right angle portions extends downwardly and terminates in a lever axle 18 having projecting side portions. This lever axle is pivotally received in the socket 10 of the frame member 4. A leaf spring 20 is employed to resiliently hold the hook element 5 in operative position as well as inoperative or open position. The leaf spring 20 is rigidly secured against the front face of the central portion of the frame member 4 by means of a punched out loop 25 integrally formed therein. The upper end portion of the spring applies resilient force to the hook element at the angled portion 35 of the hook to normally resiliently hold the hook element in the socket in operative position as shown in FIGURE 5. The spring element permits the user to pivotally swing the hook element rearwardly and upwardly into open position in order to position the hook over the collar band and into tie supporting position, and thereafter resiliently snap the hook back to normal position. The hook element may be spring held in its upwardly swung inoperative or open position by means of a bead 40 on the free end of the spring coacting with a notch 41 on the bent angle portion of the hook as shown in FIGURE 4.

It will be understod that this invention is susceptible to modification in order to adapt it to different usages and conditions, and, accordingly, it is desired to comprehend such modifications within this invention as may fall within the scope of the appended claims.

What we claim as this invention is:

1. A tie clip comprising a unitary one piece molded substantially rigid plastic frame member of approximately triangular shape with the apex thereof at the bottom and the side portions tapering rearwardly; said frame member having, in the mid portion of its upper edge, a forwardly opening socket forming an integral axle bearing, said socket having a bottom portion and upper rearwardly directed laterally spaced projections defining an upwardly opening notch, said projections overlying said bottom portion, a unitary plastic hook element pivotally connected to said frame member in said bearing socket, and a spring element secured to the front face of said frame and contacting the front face of said hook element adjacent said bearing for holding said hook element in operative position.

2. A tie clip for mounting a pre-formed tie, said clip comprising a substantially one piece molded rigid plastic frame member and a substantially rigid plastic hook pivoted thereto, said frame member comprising an elongated mid portion and side wing members; said mid portion having top and bottom ends, side edges, and front and rear faces; said wing members being substantially triangular in shape, integral with the mid portion along the side edges thereof, and extending rearwardly therefrom in diverging relation to each other; the top edges of said wing members being substantially coplanar, and their side edges being downwardly converging to a point at the bottom end of said mid portion; the top end of said mid portion having a forwardly opening socket forming an integral axle bearing, said socket having a bottom portion and upper rearwardly directed laterally spaced projections defining an upwardly opening notch, said projections overlying said bottom portion, said socket forming a pivotal bearing for said hook; said hook having at its upper end integral forwardly and downwardly extending portions, the free end of said downwardly extending portion having integral lever axle means which are received in said socket bearing, said downwardly extending portion of said hook operating in said notch and having an outer face lying substantially in the plane of the face of the mid portion, and a leaf spring rigidly secured to the front face of said mid portion, the upper end of the spring resiliently contacting the front face of said downwardly extending portion of said hook and holding said hook in operative position.

3. A tie clip as defined in claim 2, said forwardly extending portion of said hook having a notch in the upper side thereof, and the free end of said leaf spring having a bead coacting with said notch to hold the body of the hook in open rearwardly extending pivoted position for snapping said hook over the neckband of the user.

4. A tie clip for hook-on neckties comprising a unitary one piece molded substantially rigid plastic frame member of over all triangular shape with the apex thereof at the bottom and the side portions thereof flaring rearwardly from a medial portion thereof, said medial portion extending upwardly from said apex and terminating at its upper end in a forwardly opening socket forming an integral axle bearing, said socket having a bottom portion and upper rearwardly directed laterally spaced projections defining an upwardly opening notch, said projections overlying said bottom portion, as plastic hook element pivotally connected to said frame member in said socket bearing and a spring rigidly secured to said frame and contacting the front face of said hook element adjacent said bearing for holding said hook element in operative position.

5. A tie clip for mounting a pre-formed neck-tie comprising a substantially triangular unitary one piece molded plastic frame for forming the core of the knot of the tie, and a hook member directly pivoted to the unitary frame for hooking over a neck-band, said frame having a central portion having one end extending from one apex and integral rearwardly extending side portions, the other end of said central portion having a forwardly opening socket forming an axle bearing, said socket having a bottom portion and upper rearwardly directed laterally spaced projections defining an upwardy opening notch, said projections overlying said bottom portion, one end of said hook member having a bent portion, the free end of said bent portion having an integral lever axle which is pivotally received in the said socket; and spring means carried by said frame resiliently contacting the front face of said bent portion above said lever axle and holding said hook member in operative position.

6. A three piece tie clip comprising a unitary one piece molded substantially rigid plastic frame member of approximately triangular shape, a metal spring member, and a plastic hook element, said frame member having a medial portion and wing elements extending rearwardly therefrom, said medial portion having a forwardly opening socket forming a bearing, said socket having a bottom portion and upper rearwardly directed laterally spaced projections defining an upwardly opening notch, said projections overlying said bottom portion, said hook element having a lever axle pivotally received in said socket bearing, said spring having one end rigidly secured to said medial portion and the other end resiliently contacting the front face of said hook adjacent said lever axle and resiliently holding said lever axle in said socket.

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