Dec. 7, 1965 R. PHILLIPS ETAL 3,221,343

NECKTIE CLIP

Filed March 10, 1965

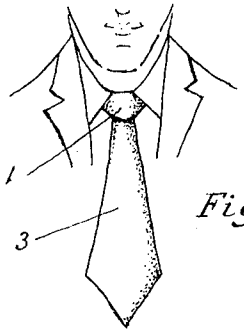


Fig. 1

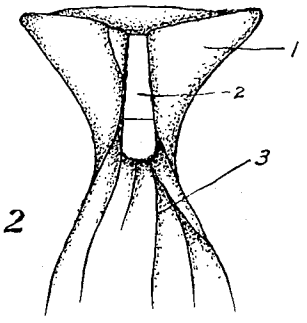


Fig. 2

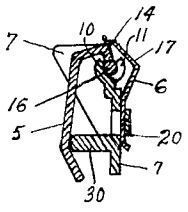


Fig. 4

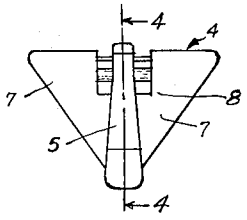


Fig. 3

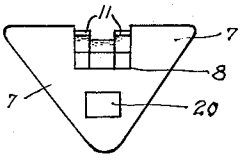


Fig. 5

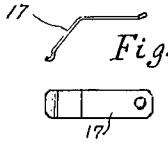


Fig. 10a

Fig. 10

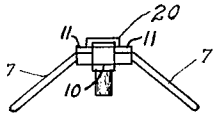


Fig. 11

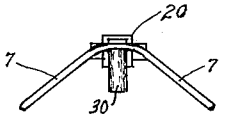


Fig. 6

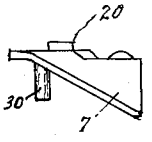


Fig. 7

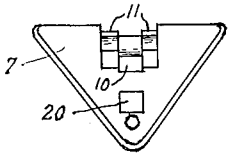


Fig. 8

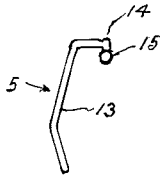


Fig. 9a

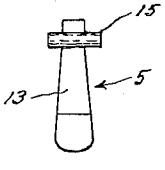


Fig. 9

United States Patent Office

3,221,343

Patented Dec. 7, 1965

3,221,343

NECKTIE CLIP

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

Filed Mar. 10, 1965, Ser. No. 438,710
3 Claims. (Cl. 2—153)

The present invention relates to the field of permanently tied, or hook-on neckties 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 principle 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 assembly 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 tied 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.

FIGURE 5 is a view in elevation showing the necktie form as viewed from the front.

FIGURE 6 is a view of FIGURE 5 from the bottom.

FIGURE 7 is a view of FIGURE 5 from the side.

FIGURE 8 is a rear view of the frame shown in FIGURE 5.

FIGURE 9 is a front view of the collar hook element.

FIGURE 9*a* is a side view of the collar hook shown in FIGURE 9.

FIGURE 10 is a top view of the metal spring element.

FIGURE 10*a* is a side view of the metal spring element shown in FIGURE 10.

FIGURE 11 is a top view of the frame shown in FIG. 6.

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 **2** which extends downwardly to the upper end of the drape **3**.

The new and improved clip is fully illustrated in FIGURES 3 to 11 wherein FIGURES 3 and 4 show the tie clip in complete assembly. The clip comprises only three parts, namely, the frame element **4**, hook **5**, and spring **6**. 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** or form for the knot of the tie, has an upwardly extending central portion and triangular wing-like side portions **7** 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 the central portion is notched downwardly at **8**, below the plane of the upper edge of the wings. The notch **8** has its bottom edge formed into a molded axle bearing **16**. This bearing is formed by offsetting rearwardly a medial tongue portion **10** and offsetting forwardly two side portions **11** constituting three upwardly extending fingers. The plastic hook element **5** comprises a downwardly extending body **13** with the upper end of the body terminating in a rearwardly extending hook portion including portions bent to define a substantial right angle **14**. One of the right angular portions extends downwardly and terminates in a lever axle **15** having projecting side portions. This axle is pivotally received in the bearings **16** of the frame member **4**. A leaf string **17** is employed to resiliently hold the hook element in operative position. The leaf spring is rigidly secured against the front face of the central portion of the frame member **4** by means of a punched out loop **20** integrally formed therein. The upper end of the spring applies resilient force to the hook element at the angled portion **14** of the hook to normally resiliently hold the hook element in operative position shown in FIGURE 4. The spring element permits the user to pivotally swing the hook element rearwardly and upwardly 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.

It will be understood 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 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 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 a downwardly extending notch formed in the medial portion of the upper edge, said notch being substantially rectangular in shape and having its lower edge formed into a molded integral axle bearing comprising at least three rigid fingers, a plastic hook element pivotally connected to said frame member in said bearing, and a spring rigidly secured to the front face of said frame and contacting 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 rigid single one piece molded plastic frame member and a substantially rigid plastic hook pivoted thereto, said frame member comprising an elongated midportion and side wing members; said mid portion having top and bottom ends, side edges, and front and rear faces; said wing members being substan-

tially 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 coplaner, and their side edges being downwardly converging to a point adjacent the bottom end of said mid portion; the top end of said mid portion having a downwardly extending rectangular notch, said notch having at its sides forwardly extending rigid socket members and a rearwardly extending socket member therebetween, said socket members forming a pivotal bearing for said hook; the 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 bearings of said frame, said downwardly extending portion of said hook operating in said notch and having an outer face lying substantially parallel to the plane of the face of said mid portion, and a leaf spring, means rigidly securing said leaf spring to the front face of said portion, the upper end of the spring resiliently contacting the upper end of said downwardly extending portion of said hook and holding said hook in operative position.

3. A tie clip for hook-on neckties comprising a unitary substantially rigid plastic frame member of over all triangular shape with the apex thereof at the bottom and the side portions thereof flaring rearwardly; said frame

member having a downwardly extending rectangular notch, formed in the medial portion of the upper edge thereof, said notch having its lower edge formed into a molded integral axle bearing comprising at least three rigid fingers, a plastic hook element pivotally connected to said frame member in said bearing and a spring rigidly secured to the front face of said frame and contacting said hook element adjacent said bearing for holding said hook element in operative position, and said frame member having a forwardly extending pintle which coacts with the hook element to hold said frame in operative position.

References Cited by the Examiner

UNITED STATES PATENTS

1,636,368	7/1927	Johnson	2—153
2,798,226	7/1957	Kanter	2—153
2,972,750	2/1961	Kanter	2—153
3,050,737	8/1962	Scully	2—153

FOREIGN PATENTS

1,350,150	12/1963	France.
1,140,885	12/1962	Germany.
907,290	10/1962	Great Britain.

JORDAN FRANKLIN, *Primary Examiner.*

P. D. LAWSON, *Assistant Examiner.*