Oct. 1, 1946. M. GREENFIELD 2,408,631

BOW TIE DEVICE

Filed Feb. 28, 1945

Fig. 1.

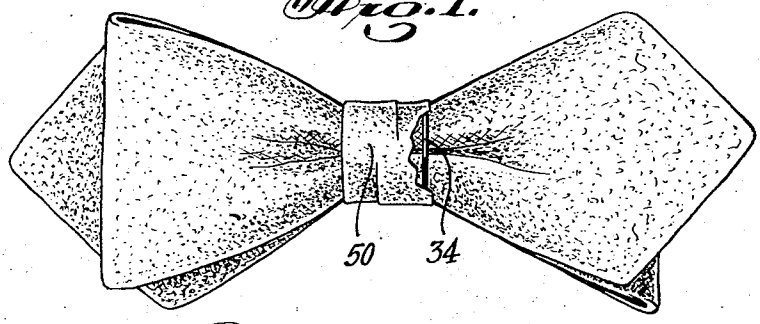


Fig. 2.

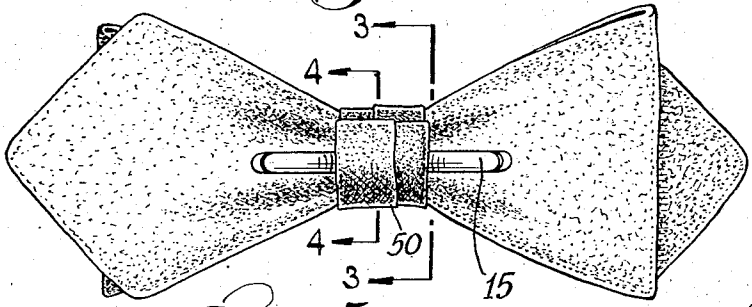


Fig. 3.

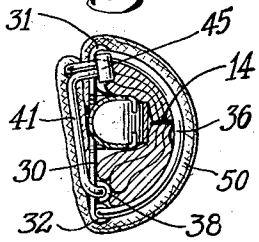


Fig. 4.

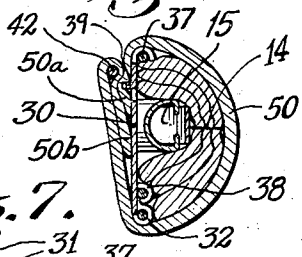


Fig. 5.

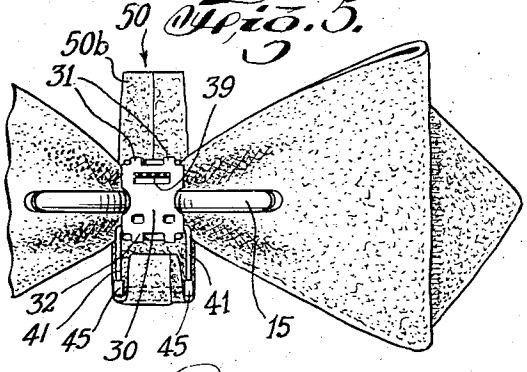


Fig. 7.

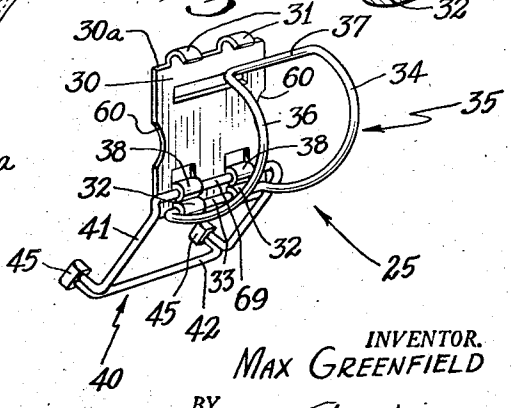
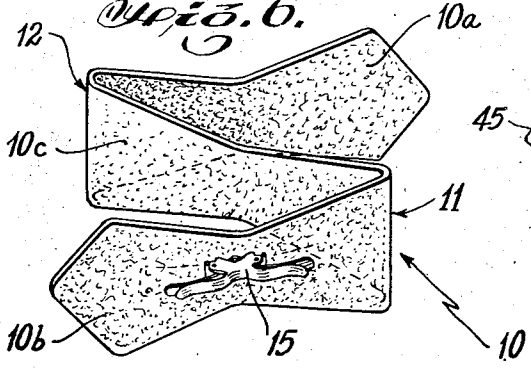


Fig. 6.



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BOW TIE DEVICE

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11 Claims. (Cl. 2—154)

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My invention relates generally to neckties. More particularly my invention is directed toward a novel device adapted for use in assembling bow ties from stitched bow tie blanks.

One of the objects of my invention is to provide a device of the character described which shall be so constructed and arranged as to facilitate the maintaining of the folded bow tie in proper assembled shape without the need of employing stitching, thus effecting a great saving of time in manufacturing bow ties and also making it possible to employ workers without stitching experience.

Another object of my invention is to provide a bow tie assembling device of the character described which shall be particularly adapted to additionally maintain in position suitable clip means for attaching the bow tie to a collar of a shirt.

Still another object of my invention is to provide a bow tie assembling device of the character described which shall be so constructed and arranged as to maintain at all times the desired form and shape of the knot area against collapse.

A further object of my invention is to provide a novel and improved bow tie assembling device which shall represent a general improvement in the bow tie art.

Other objects of my invention will hereinafter be pointed out or will become apparent from the detailed description to follow.

In the accompanying drawing,

Fig. 1 is a front elevational view of a bow tie made up for use and embodying the assembly device constructed and arranged in accordance with my invention;

Fig. 2 is a rear elevational view thereof;

Fig. 3 is an enlarged cross-sectional view taken substantially along the line 3—3 of Fig. 2;

Fig. 4 is an enlarged cross-sectional view taken substantially along the line 4—4 of Fig. 2;

Fig. 5 is a fragmentary view of the bow tie as shown in Fig. 2 but with a portion thereof disassembled to disclose the construction and operation thereof;

Fig. 6 is a perspective view of the stitched bow tie blank from which the bow tie shown in Figs. 1, 2 and 5 is made, but smaller in size, and illustrating the manner of mounting a clip thereon and of folding the blank preparatory to attaching the assembling device of my invention; and

Fig. 7 is an enlarged perspective view of my assembling device shown by itself.

Referring now in detail to the drawing and

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more particularly to Fig. 6, I have illustrated a bow tie blank 10 as it appears after it has been cut according to a suitable pattern and stitched in the customary manner well known to the art, and comprising the front or topmost layer 10*a*, the rearmost layer 10*b* and the intermediate layer 10*c*. As illustrated in Fig. 6 the blank 10 is folded on the two transverse fold lines 11 and 12. If desired, the overlying relationship of the layers 10*a*, 10*b* and 10*c* may be maintained by a wire staple member 14 passing through the three layers at about the midpoints thereof. (See Figs. 3 and 4.)

If desired there may be mounted on the rearmost layer 10*b* a clip member 15, suitable for attaching the bow tie to the collar of a shirt in any well known manner. The clip 15 may be of any known type, such as for example that shown in the drawing which represents the type current widely in use.

When the bow tie has been folded and stapled as above described and with the clip 15 properly positioned, I quickly and permanently maintain the folded tie in shape, including the marking and maintaining of the constructed and knot simulating area.

As shown in Fig. 7 of the drawing, the said device 25 of my invention comprises a main body portion 30 which may be in the form of a sheet of relatively rigid material, such as for example sheet metal, and being provided with a pair of integral hooked members 31 extending from the upper edge 30*a* of said body 30. Integral with the lower edge 30*b* of the body 30 are a pair of looped bearing members 32. Pivotally held in the bearings 32 is a bottom horizontal rod 33 of a bail member 35 comprising the integral parallel side members 34 and 36 and an interconnecting top horizontal rod 37.

The body 30 is provided with a second set of bearing loops 38, similar to the bearing loops 32, but which may be struck out from the material of the said body portion. Pivotally received within the bearings 38 is the bottom rod 69 of a second bail member 40 which said bail member 40 comprises the side members 41 and the top bar 42. The bail members 35 and 40 may be made of suitable wire material, as shown. The bail member 40 may be provided, adjacent the top bar 42 with thickened portions 45 designed to serve as locking members to hold the clamping bail 40 in effective position.

The main body portion 30 is further provided with a lip which may be struck out from the material of the body 30 and which extends to the opposite surface from that of the struck out

loops 38. The said lip is provided with a serrated or toothed edge 39, the purpose and function of which will soon become apparent.

The assembling device of my invention is effectively applied in the following manner.

The main body 30 is first placed in position at the rear of the tie, as shown in Fig. 5 with the toothed lip 39 uppermost. In such position, it is noted that the body 30 lies directly over the center portion of the clip 15. Next the bail 35 is swung upwardly, the sides 34 and 36 embracing and constricting the center portion of the tie. As noted in Fig. 3, the sides 34 and 36 of the bail 35 are curved to give a rounded shape to the simulated knot portion soon to be described. After the said bail 35 is brought around the front of the bow tie, as described, the bar 37 is hooked under the pair of hooks 31 to lock the said bail in its tie embracing position. The next step consists of taking a previously prepared band of material 50 which is to serve as a simulated knot and hook one end 50*a* thereof on the teeth 39, as clearly shown in Fig. 4 and thence wrap the band 50 around, over the loops 31 and sides 34 and 36 of the bail, thence around over the bearings 32 and up and looping the same over the top rod 42 of the clamping bail 42 with the opposite end portion 50*b* lying between the body 30 and the bank 50. While the band 50 is in the latter described position, the bail 40 is pivotally swung around so that the members 45 will frictionally engage the side edges of the body 30 to clamp the band 50 and the clip 15 in proper place.

It is noted that the distance between the sides 41 of the bail 40 is such that the members 45 will frictionally grip and hold the said bail 40 in clamped position.

It is thus seen that the bow tie including the clip has been assembled and maintained without the necessity of resorting to time consuming and difficult stitching.

To permit free bending movement of the arms of the clip 15, I provide a pair of opposed notches 60 in opposite side edges of the body 30.

It will thus be seen that there is provided a device in which the several objects of this invention are achieved and which is well adapted to meet the conditions of practical use.

As various possible embodiments might be made of the above invention, and as various changes might be made in the embodiments above set forth, it is to be understood that all matter herein set forth or shown in the accompanying drawing is to be interpreted as illustrative and not in a limiting sense.

Having described my invention, what I claim and desire to secure by Letters Patent is:

1. A bow tie device of the character described comprising in combination a main body member having a plate adapted to overlie the rear surface of the center constricted portion of said bow tie, a one piece wire clamping member comprising bottom, top and side portions, said bottom portion being pivotally mounted on said plate adjacent the bottom edge thereof leaving said top portion free, means comprising a loop adjacent the top edge of said plate for releasably locking said top portion of said clamping member to said plate with said side portions overlying the front surface of the center constricted portions of said bow tie.

2. A bow tie device of the character described comprising, in combination, a main body member having a plate adapted to overlie the rear surface of the center constricted portion of said bow tie, a one-piece wire clamping member comprising bottom, top and side portions, said bottom portion being pivotally mounted on said plate adjacent the bottom edge thereof leaving said top portion free, means adjacent the top edge of said plate for releasably locking said top portion to said plate with said side portions overlying the front surface of the center constricted portions of said bow tie, said side portions being outwardly curved to conform to the simulated knot portion of said bow tie.

3. A bow tie device of the character described comprising, in combination, a main body member having a plate adapted to overlie the rear surface of the center constricted portion of said bow tie, a clamping member comprising bottom, top and side portions, said bottom portion being pivotally mounted on said plate adjacent the bottom edge thereof leaving said top portion free, means adjacent the top edge of said plate for releasably locking said top portion to said plate with said side portions overlying the front surface of the center constricted portions of said bow tie, said side portions being outwardly curved to conform to the simulated knot portion of said bow tie, means on said plate for gripping one end of a band of mtaerial so as to be able to cause said band to encircle said constricted center portion of said bow tie to simulate a knot and to hide said plate and said clamping member from view, and means carried by said plate for clamping the free end of said band to retain the same in its encircled position.

4. A bow tie device according to claim 3 in which the said last named means for clamping the free end of the band in position comprises a second clamping member pivotally mounted on said plate.

5. A bow tie device according to claim 3 in which the said last named means for clamping the free end of the band in position comprises a second clamping member having bottom, top and side walls, said bottom wall being pivotally mounted adjacent the bottom end of said plate, and friction means on said second clamping member adjacent the junction of said side and top walls to frictionally engage the side edges of said plate.

6. A bow tie assembly comprising a cut-to-pattern, stitched tie blank, folded to provide a front layer, a rear layer and an intermediate layer, the center areas of said three layers being constricted, a plate member overlying the outermost surface of said rear layer, a first clamping member pivotally mounted on said plate member, said first clamping member overlying the outermost surface of said front layer, said first clamping member being releasably locked to said plate to hold said bow tie captively attached thereto, a relatively narrow band of textile material encircling said constricted areas and overlying said plate and said first clamping member to hide them from view and a second clamping member pivotally mounted on said plate for releasably clamping said band in said encircling position.

7. A bow tie assembly according to claim 6 in which the three layers are held in overlying relationship by a staple member disposed in said constricted areas and passing through said three layers.

8. A bow tie assembly according to claim 6 in which a longitudinal clip member for attaching the bow tie to the collar of a shirt is mounted on said rear layer and in which said plate overlies

said clip member to hold the same captive without the necessity of stitching.

9. A bow tie assembly according to claim 6 in which the said plate is provided with gripping means for holding one end of said band while the remaining portion thereof is wound around said constricted portion.

10. A bow tie device of the character described comprising a relatively rigid flat plate, a pair of integral looped ears projecting from the top edge of said plate, a first pair of integral looped bearings projecting from the bottom edge of said plate, a second pair of integral looped bearings adjacent said first pair of looped bearings, a first wire clamping member having a portion thereof pivotally mounted on said first pair of looped bearings, a second wire clamping member having a portion thereof pivotally mounted in said second pair of looped bearings, a portion of said first wire clamping member being adapted to be resiliently locked in effective position in said pair of looped ears, portions of said second wire clamping member being adapted to frictionally engage

opposite side edges of said plate to frictionally lock said second clamping member in effective position and a set of tooth members on said plate for gripping one end of a band of textile material for the purposes set forth.

11. A bow tie assembly comprising a cut-to-pattern, stitched tie blank, folded to provide a front layer, a rear layer and an intermediate layer, the center areas of said three layers being constricted, a plate member overlying the outermost surface of said rear layer, a first clamping member pivotally mounted on said plate member, said first clamping member overlying the outermost surface of said front layer, said first clamping member being releasably locked to said plate to hold said bow tie captively attached thereto, a relatively narrow band of textile material encircling said constricted areas and overlying said plate and said first clamping member to hide them from view and a second clamping member for releasably clamping said band in said encircling position.

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