July 19, 1938. H. ZWEIG ET AL 2,123,873

GARMENT SHORTENING APPARATUS

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Fig. 1.

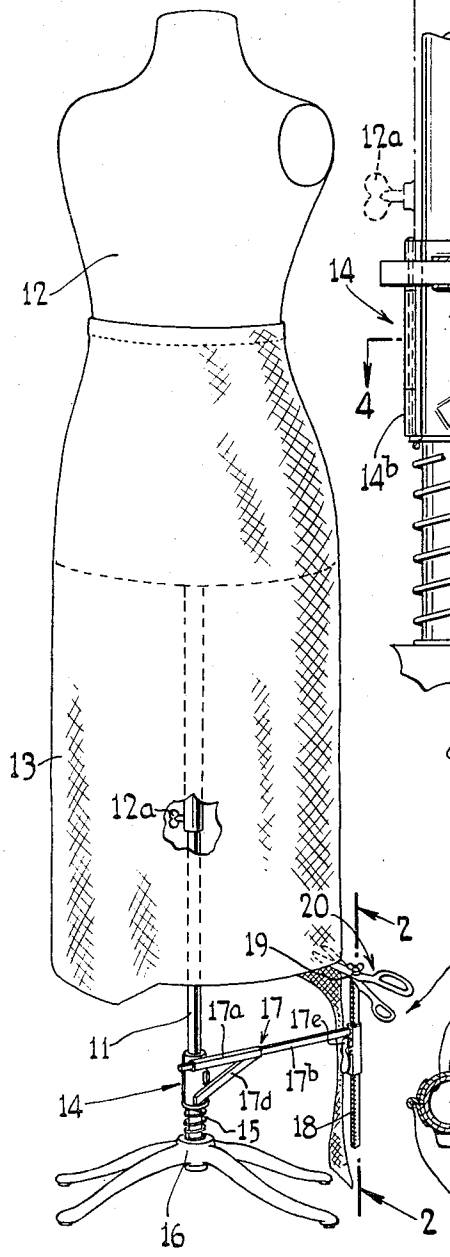


Fig. 2.

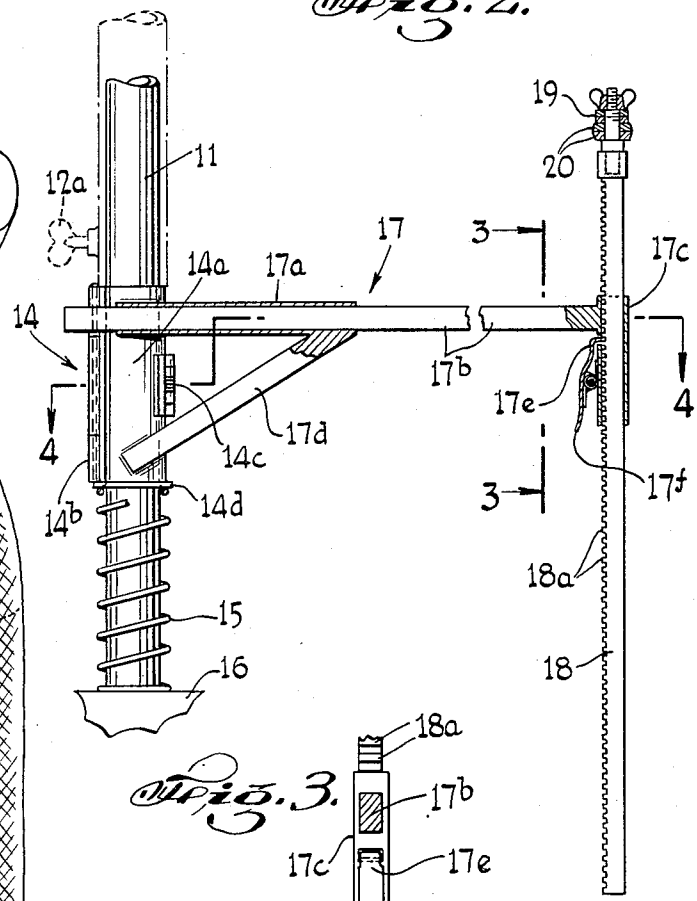
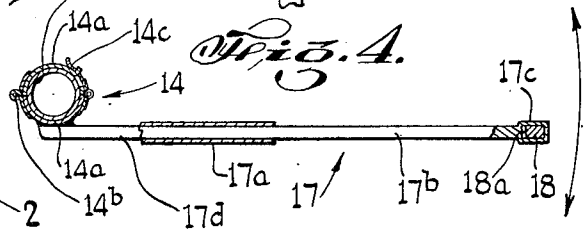


Fig. 3.

Fig. 4.



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GARMENT SHORTENING APPARATUS

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6 Claims. (Cl. 164—71)

This invention relates to dress making and tailoring apparatus, and more particularly is directed to a novel construction of mounting and adjustable support for material cutting means, such as scissors for trimming or leveling the bottom of a garment fitted on a dress form.

The object of the invention is to generally improve apparatus of the character described which shall comprise of few and simple parts that are readily assembled to provide a compact structure attachable to dress forms of conventional constructions, which shall be easily manipulated for accurately trimming or leveling the bottom of garments fitted on such dress forms to a desired height from the floor, which shall be inexpensive to manufacture, and which shall be efficient and practical to a high degree and use.

Other objects of this invention will in part be obvious and in part hereinafter pointed out.

The invention accordingly consists in the features of construction, combinations of elements and arrangement of parts which will be exemplified in the construction hereinafter described and of which the scope of the application will be indicated in the following claims.

In the accompanying drawing, in which is shown one illustrative embodiment of this invention,

Fig. 1 is a perspective view of a conventional dress form having a garment such as a skirt fitted thereon, and the garment shortening apparatus constructed to embody the invention, applied thereto for shortening the bottom of the skirt.

Fig. 2 is an enlarged view of the improved garment shortener as seen along lines 2—2 in Fig. 1, showing parts thereof in section to expose the interior construction.

Fig. 3 is a fragmentary enlarged view as seen along lines 3—3 in Fig. 2, showing the adjustable means for retaining the scissors in a fixed position, and

Fig. 4 is a cross-sectional view taken along lines 4—4 in Fig. 2.

Referring in detail to the drawing, 10 denotes a dress making or tailoring apparatus constructed to embody the invention. Said apparatus 10 is shown in Fig. 1 applied to an upright pipe stanchion 11 of a dress form 12 on which a garment 13, such as a dress, skirt, or three-quarter or full length coat is hung.

Said apparatus 10 is preferably made with a swiveling member 14 removably attachable to said stanchion 11, and as here shown, said member comprises of a split two-part tubular portion 14a of circular cross-section hinged together, as at 14b, and releasably locked closed by any suitable means, such as spring latch 14c so that said member portions 14a may be unlatched, swung open, applied, closed to embrace the stanchion 11, and then locked in position to provide swiveling movements for the apparatus 10 on said stanchion 11.

If desired, the lower ends of the two parts of the split tubular portions 14a may be formed with flanges 14d which act as a seat for resting on the top end of a cushioning spring 15, said spring being usually provided on the lower end of the stanchion 11 above a pedestal or base 16 to serve as a shock absorbing means should the form 13 accidentally drop down along the stanchion 11 on being released by loosening wing nut clamp 12a for height adjustment of the dress form in the well understood manner. Where a spring 15 is not provided, the lower flanged end 14d of the member 14 may be rested on the top side of the pedestal 16 or on a suitable collar (not shown) on which the swiveling of the apparatus 10 about the stanchion 11 takes place.

The axis of member 14 being vertically disposed, has rigidly secured thereto near the upper end thereof, a horizontally disposed extensible arm 17 comprising, as seen from Figs. 1, 2 and 4, of a sleeve portion 17a with a bar 17b, telescopically fitted therethrough, slidably supported in said sleeve for free rectilinear movement. The end of the bar 17b which extends beyond the sleeve 17a carries a holder 17c. If desired, a brace 17d may be provided to extend from the outer end of the sleeve 17a to the lower end of the member 14 for increasing the rigidity of the overhang of said sleeve 17a.

The holder 17c serves to adjustably support a vertically extending rod 18. The upper end of the rod 18 may be provided with a fitting 19 for rotatably mounting a suitable cutting means, such as a pair of scissors 20. Between the holder 17c and the rod 18 there may be provided for adjustably retaining the rod 18 in the holder 17c a releasable clamping means, such as a wing-nut set screw of any conventional construction, or as shown in Figs. 2 and 3, a spring pressed pawl or dog 17e which normally engages rack teeth 18a provided in rod 18 and can be disengaged from said rack by pressing a finger piece 17f in the well understood manner, so that the rod 18 may be adjusted for raising or lowering the height of the scissors 20 with respect to the holder 17c of the arm 17.

In practising the invention with apparatus 10

constructed of the assembled parts above described, the detachable member 14 is applied to the stanchion 11 of any conventional dress form 12, as shown in Fig. 1, so that said apparatus 10 freely swivels about said stanchion 11. In attaching the apparatus 10 to the stanchion 11, the latch 14c is released and the tubular portions 14a are swung open on the hinge 14b to permit the embracing of the stanchion 11 between said portions 14a. The latter are then swung closed and the latch locked to retain the member 14 for swiveling on the stanchion 11.

The clamping means retaining the rod 18 to the holder 17c may next be released by disengaging the dog 17e from the rack 18a on pressing finger piece 17f and the rod 18 is adjusted to the desired height for trimming the bottom of the garment 13 on the form 12. This adjustment, on release of said finger piece 17f, retains the scissors 20 at the desired height and against any accidental up and down movement for trimming the bottom of the garment 13. Now manipulating the scissors 20, which are pivoted on the fitting 19, and swiveling the apparatus 10 on the stanchion 11, the bottom of the garment 13 can be readily and easily trimmed to the desired height or level. Since the telescoping arm 17 is constructed so that the bar 17b freely slides in and out of the sleeve 17a, the contour of the garment 13 can be readily followed either by rotating the form 12 with the garment 13 about the stanchion 11 and simultaneously telescoping the arm 17 for moving and operating the cutting by the scissors 20 to follow the contour of the garment bottom, or the apparatus 10 swiveled about the stanchion 11, with the dress form 12 kept in a relatively stationary position and concurrently operating the cutting with the scissors 20 and sliding the bar 17b in the sleeve 17a to follow the contour of the garment bottom. It is thus seen that in providing the apparatus 10 with a swiveling support on the stanchion 11 and also mounting the scissors 20 on a pivot retained at a desired level, yet permitting simultaneously with any swiveling or pivoting movement the in and out sliding movement of the arm 17, the operation of the scissors 20 may be guided with respect to the garment 13 on the form 12 and the bottom may be trimmed without disturbing the natural hang of the material making up the garment 13.

The application of this invention as above described is particularly well suited for garments of sheer or loosely woven material, or garment materials having bottoms cut on a bias and is adapted for use in manufacturing establishments in quantity production of garments, as well as for trimming bottoms of individual garments, as in custom tailoring and dressmaking.

It will thus be seen that there is provided apparatus in which the several objects of this invention are achieved and which are 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 embodiment above set forth, it is to be understood that all matter set forth or shown in the accompanying drawing is to be interpreted as illustrative and not in a limiting sense.

Having thus described our invention, we claim as new and desire to secure by Letters Patent:

1. An apparatus of the character described comprising a swivel mounting, an extensible arm supported by said mounting, a height adjusting holder terminating said arm, and a material cutter pivotally secured to the carrier, said swivel mounting, extensible arm, holder and cutter being so constructed and arranged to permit concurrent swiveling of said mounting with the shortening and lengthening of the arm on swinging and manipulation of the cutter.

2. A garment bottom leveling apparatus comprising a swivel attachment, extensible means carried by said attachment, a scissors, pivotal means for mounting said scissors adjustably mounted on said extensible means, said apparatus being so constructed and arranged to permit manipulating the scissors to follow during a cutting operation the contour of the bottom of a garment fitted to a form to which the said apparatus is adapted to be applied.

3. The combination defined in claim 2 in which the swivel attachment of said apparatus includes a releasable locking means to facilitate the detachable mounting of said apparatus in effective position on the stanchion.

4. In combination with a dress form stanchion, of a member swivelly attached to said stanchion, an extensible arm supported by said member, and adjustable means for pivotally mounting a pair of scissors carried by said arm, said extensible arm comprising a bar and sleeve forming a free-moving telescoping structure, said adjustable means and extensible arm being so constructed and arranged to permit the simultaneous sliding movements between the bar and the sleeve and the swinging of the scissors on manipulation of the latter for cutting operations.

5. In combination with a dress form stanchion, of a member swivelly attached to said stanchion, an extensible arm supported by said member, and adjustable means for pivotally mounting a pair of scissors carried by said arm said member including means for detachably securing the member to said stanchion, said extensible arm and adjustable means being so constructed and arranged to permit concurrent swinging of said member on said stanchion, sliding movement between the bar and the sleeve, and swinging of the scissors on manipulation of the latter for cutting operations.

6. The combination defined in claim 4 in which said member includes means for detachably securing the member to the stanchion.

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