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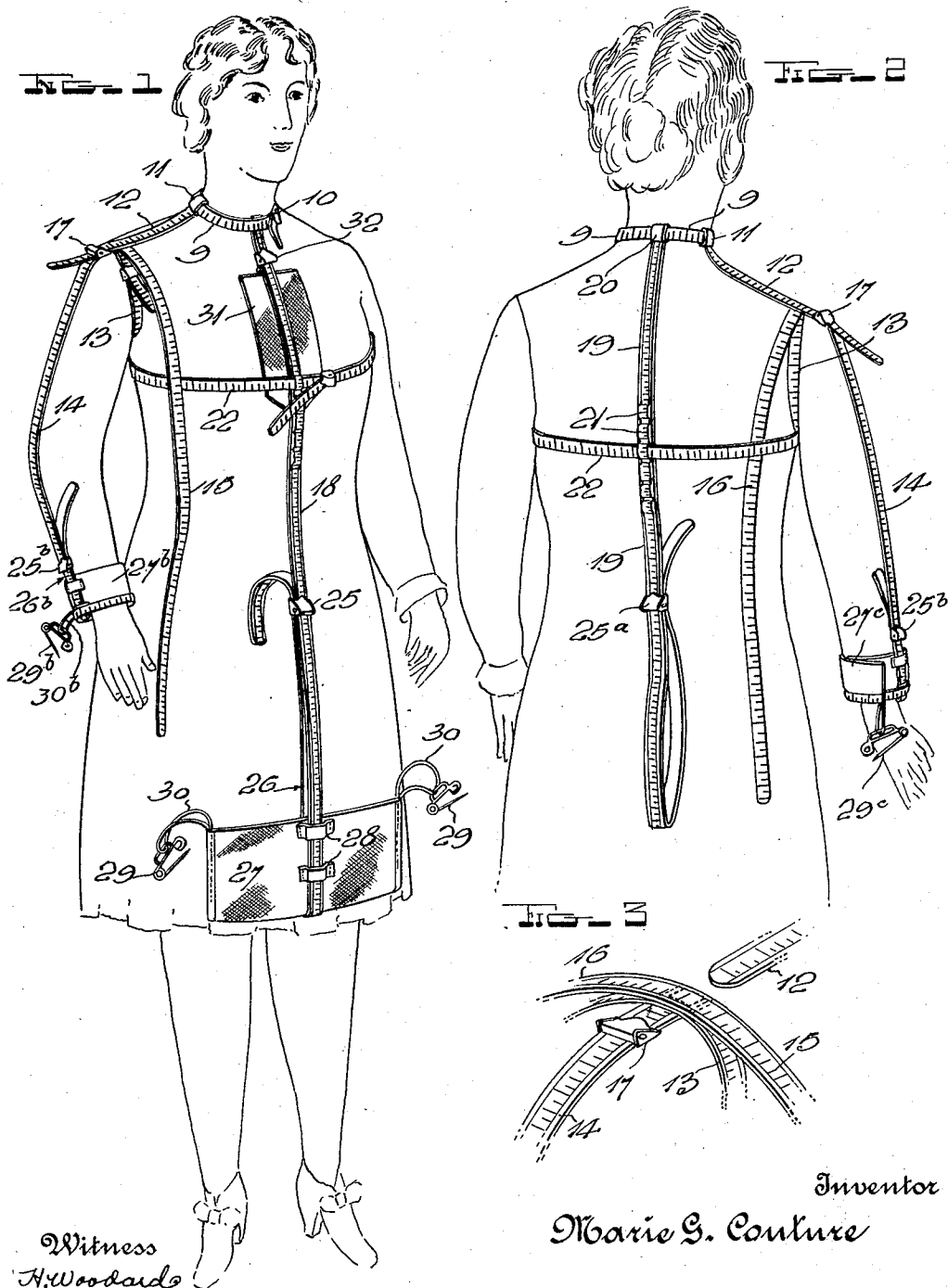
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MEASURING HARNESS

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2 Sheets-Sheet 1



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UNITED STATES PATENT OFFICE

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MEASURING HARNESS

Application filed March 8, 1929. Serial No. 345,573.

The invention relates to measuring harnesses for use by tailors, dressmakers and others in measuring patrons desirous of having garments made or altered.

5 It is one object of the invention to provide a measuring harness which is provided with unique means for showing the effect of any desired garment length.

10 A further aim is to make unique provision for showing the effect of any of numerous suggested sleeve lengths.

A still further aim is the provision of a novel vertically adjustable sheet which may be set to conspicuously show the effect of any 15 of numerous depths of neck cuts.

A still further aim is to provide a construction which is equally well adapted for taking measurements for dresses, skirts or trousers.

20 With the foregoing and minor objects in view, the invention resides in the novel subject matter hereinafter described and claimed, description being accomplished by reference to the accompanying drawings.

25 Figs. 1 and 2 are perspective views showing the harness applied for taking all measurements above the waist and for also taking a dress length measurement.

30 Fig. 3 is a fragmentary disassembled perspective view.

Fig. 4 is a perspective view of a portion of the harness used for taking the waist measure of a skirt, dress or trousers, the hip measure for any of these garments and the 35 length thereof.

Fig. 5 is a perspective view of the skirt length-determining sheet and the front measuring strap associated therewith.

40 Fig. 6 is a perspective view of the sleeve length-determining sheet and the sleeve length strap connected with it.

Fig. 7 is a perspective view illustrating the neck-determining sheet and its adjusting means and the adjusting means for the bust 45 strap.

Fig. 8 is a perspective view illustrating a form of strap connection used at the points hereinafter explained.

50 For illustrative purposes, the form of construction herein illustrated will be specifically

described, with the understanding however that within the scope of the invention as claimed, numerous variations may be made. It may be further explained at the outset that when manufacturing the harness, con- 55 spicuous identifying numbers will be suitably affixed to the various parts and a book of explanations will be furnished referring to the uses of all parts by means of their respective numbers. These numbers are 60 omitted from the disclosure to prevent confusion with the reference numbers necessary in the following description.

The harness shown in Figs. 1, 2 and 3 is intended for use when measuring an individual 65 for a dress with loose-fitting waist, and in order to get the hip measurement, the harness shown in Fig. 4 is used also. Moreover, this harness of Fig. 4 is employed when a 70 more or less tight-fitting waist is desired, and this same harness of Fig. 4 is instrumental in taking measurements for trousers. The harness of Figs. 1, 2 and 3 will first be described.

A neck-measuring strap is shown at 9 provided with an adjusting buckle 10. Slidable 75 upon this strap for positioning at the proper location, is a loop 11 on one end of a shoulder-measuring strap 12. Adjustably connected with the shoulder strap 12, are a number of 80 straps which are themselves unitarily connected. 13 denotes an arm-hole measuring strap, 14 has reference to a sleeve length measuring strap, and 15 and 16 denote front 85 and rear straps for vertically measuring portions of the body. These four straps 13—14—15—16 are unitarily connected with each other in any desired manner, and a single buckle 17 is secured to their connected portions, said buckle being adjustable along the 90 shoulder strap 12.

A front dress length measuring strap 18 is secured at its upper end to the neck strap 9, and a rear dress length measuring strap 19 is provided at its upper end with a loop 20 95 through which said neck strap passes slidably. The two length measuring straps 18—19 are each provided with a plurality of vertically spaced loops 21 through which a bust measuring strap 22 passes. By removing 100 this strap from certain loops and inserting it

into others, it may be vertically adjusted according to the figure of the person being measured.

All of the straps preferably embody a main strap portion or backing formed of hair cloth or other desired material, and a measuring tape stitched to this body portion or backing. The measuring tapes for the straps 18—19 are arranged as shown in the large perspective view identified as Fig. 7. In this view, 23 denotes the measuring tape and 24 has reference to stitching securing it to the body of the strap, and it will be observed from this view that portions of said tape 23 are left free from the strap body, providing the loops 21. By so doing, the measuring tape performs a two-fold function, and a simplification in structure is produced as well as a decrease in manufacturing cost.

The lower end portion of the strap 18 is folded upwardly upon itself and adjustably secured by an appropriate buckle 25, folding of the strap in this manner providing a loop 26. A horizontally elongated, vertically widened sheet 27 passes through this loop and is itself provided with loops 28 which receive the front portion of said loop 26. The sheet 27 extends extensively in opposite directions from the strap 18 and is of a height many times the width of said strap, so that said sheet and strap become relatively conspicuous and obscure respectively. Hence, the sheet 27 is usable to advantage for giving the effect which would be attained from any suggested dress length. To hold this sheet extended and to temporarily anchor it to an underlying garment in numerous positions until the final length is decided upon, safety pins 29 are provided at the ends of said sheet, and flexible ties 30 carry these pins, said ties being permanently secured to the sheet ends. Hence, the pins are always accessible for use in pinning the sheet 27 at any suggested or desired position.

In addition to performing the function above described, upward turning of the lower end of the strap 18 and fastening with the buckle 25, prevent said strap end from dragging upon the floor and becoming soiled. The lower end of the rear strap 19 is also turned upwardly by preference for this same purpose and is adjustably fastened by a buckle 25^a.

The lower portion of the sleeve length measuring strap 14 is folded upwardly upon itself to provide a loop 26^b held in adjusted position by a buckle 25^b. Passing through the loop 26^b and connected with it in the same manner as the sheet 27 is connected with the loop 26, is a second and smaller sheet 27^b for giving the effect of any suggested sleeve length. The free ends of the sheet 27^b may be overlapped to any desired extent to give the effect of various sleeve sizes, and safety pins 29^b are connected with the ends of this sheet by flexible ties 30^b. These pins are used

for temporarily fastening the sheet at numerous positions until the desired effect is attained.

A third sheet 31 is provided under the upper portion of the front strap 18 and is suitably shaped to give the effect of numerous depths of neck cut, this sheet being adjustably connected with said strap 18 by a buckle 32.

It will be observed that the harness shown in Figs. 1, 2 and 3 and partially shown in Figs. 5, 6 and 7, does not provide for taking measurements at the waist or at the hips. When such measurements are to be taken, the harness shown in Figs. 4 and 8 is employed. This harness embodies a waist measuring strap 33 and a hip measuring strap 34, both suitably connected with a front strap 35, a rear strap 36 and a side strap 37. The lower portions of all of these straps 35—36—37 are turned upwardly to prevent them dragging upon the floor and are fastened adjustably by buckles 38. The loop 26^c formed at the lower end of the strap 37, receives a skirt length sheet 27^c which is identical with the sheet 27 above described and is provided with safety pins 29^c.

The two harnesses (Figs. 1, 2 and 3 and the one shown in Fig. 4), are jointly used in measuring for certain kinds of garments. Then too, the harness of Fig. 4 may be used by itself when measuring for skirts or trousers, the sheet 27^c being adjusted to give the effect of either any desired skirt lengths or any desired trousers lengths and size of cuff.

Preferably, the upper ends of the three straps 35—36—37 are provided with loops 39 through which the waist strap 33 passes, and if desired said loop of the strap 35 may be fastened to said strap 33 for instance by stitching 40. Measuring tapes are provided on all straps of the harness shown in Fig. 4 and one is provided on the measuring sheet 27^c, and it may here be explained that a similar tape is also employed on the sheet 27^b previously described. The tapes of the straps 35—36—37 have portions 41 constituting loops through which the hip strap 34 passes, and the loop of strap 35 is preferably stitched to said strap 34 as indicated at 42.

By providing the features of construction herein shown and described, or a substantial equivalent thereof, all required measurements may be taken and the harness which has been adjusted to the form of the individual, may be placed upon an adjustable form such as that shown in my U. S. application Serial No. 345,574, filed March 8, 1929, and used for setting this form to reproduce the individual. A pattern cutting harness such as that shown in my U. S. application Serial No. 345,575, filed March 8, 1929, is then adjusted to the set form and is used for cutting the necessary patterns, the form, still adjusted, being employed for fitting the garment.

Excellent results are obtainable from the general construction shown and described, and such structure is therefore preferably followed. However, within the scope of the invention as claimed, variations may be made.

I claim:—

1. In a measuring harness, a pendent measuring strap for a garment portion, and a horizontally elongated flexible sheet connected with the lower portion of said strap to give the effect of any suggested length of said garment portion, said sheet projecting extensively from said strap and having free ends, pins at said ends for temporarily pinning them at different positions until the desired effect is attained, and flexible ties carrying said pins and connected permanently to said sheet.

2. In a measuring harness, a pendent measuring strap for a garment portion, a horizontally elongated flexible sheet connected with the lower portion of said strap to give the effect of any suggested length of said garment portion, said sheet projecting extensively from said strap and being of a height greatly in excess of the strap width, whereby said sheet and said strap are relatively prominent and obscure respectively and the effect of any suggested length of the garment portion may be readily visualized; said sheet having free ends, pins at said ends for temporarily pinning them at different positions until the desired effect is attained, and flexible ties carrying said pins and connected permanently to said sheet.

3. In a measuring harness, a pendent measuring strap for a garment portion, and a horizontally elongated flexible sheet at the lower portion of said strap to give the effect of any suggested length of said garment portion, said sheet projecting extensively from said strap and being of a height greatly in excess of the strap width, said lower portion of the strap being folded upon itself and adjustably fastened above said sheet to provide a stirrup through which said sheet passes and to make provision for vertically adjusting said sheet, the latter being provided with loops through which said strap passes slidably, said sheet having free ends, pins at said ends for temporarily pinning them at different positions until the desired effect is attained, and flexible ties carrying said pins and connected permanently to said sheet.

4. In a measuring harness, a front dress length strap and a sleeve length strap; horizontally elongated flexible sheets connected with the lower portions of said dress length strap and said sleeve length strap respectively to give the effect of any suggested dress and sleeve length; the dress length sheet projecting extensively in opposite directions from the dress length strap and having free ends adapted for temporary pinning at different elevations to an underlying garment until the

desired effect is attained; the sleeve length sheet having free ends for passage around the arm and being also adapted for temporary pinning at different positions until the desired effect is attained.

5. A structure as specified in claim 4; together with pins at the ends of said sheets for use in pinning them, and flexible ties carrying said pins and permanently connected to said sheets.

6. A structure as specified in claim 4; said lower portions of the straps being folded upon themselves and adjustably fastened above said sheets to provide stirrups through which said sheets pass and to make provision for vertically adjusting said sheets, the latter being provided with loops through which said straps pass slidably.

7. In a measuring harness, a front dress length strap and a sheet disposed against the upper portion of said strap and connected therewith for vertical adjustment to give the effect of various suggested depths of neck, said sheet being of a width much greater than the strap and projecting oppositely from the latter.

8. A structure as specified in claim 4; together with an additional sheet adjustably mounted on the upper portion of said front length strap to give the effect of various suggested depths of neck, said additional sheet being of a width much greater than said front length strap and projecting oppositely from the latter.

9. In a measuring harness, a neck measuring strap and a shoulder measuring strap connected therewith; an arm-hole measuring strap, a sleeve length measuring strap and front and rear body measuring straps all unitarily connected with each other; and a single buckle connected with said unitarily connected straps for simultaneously adjusting them along said shoulder strap.

In testimony whereof I have hereunto affixed my signature.

MARIE G. COUTURE.