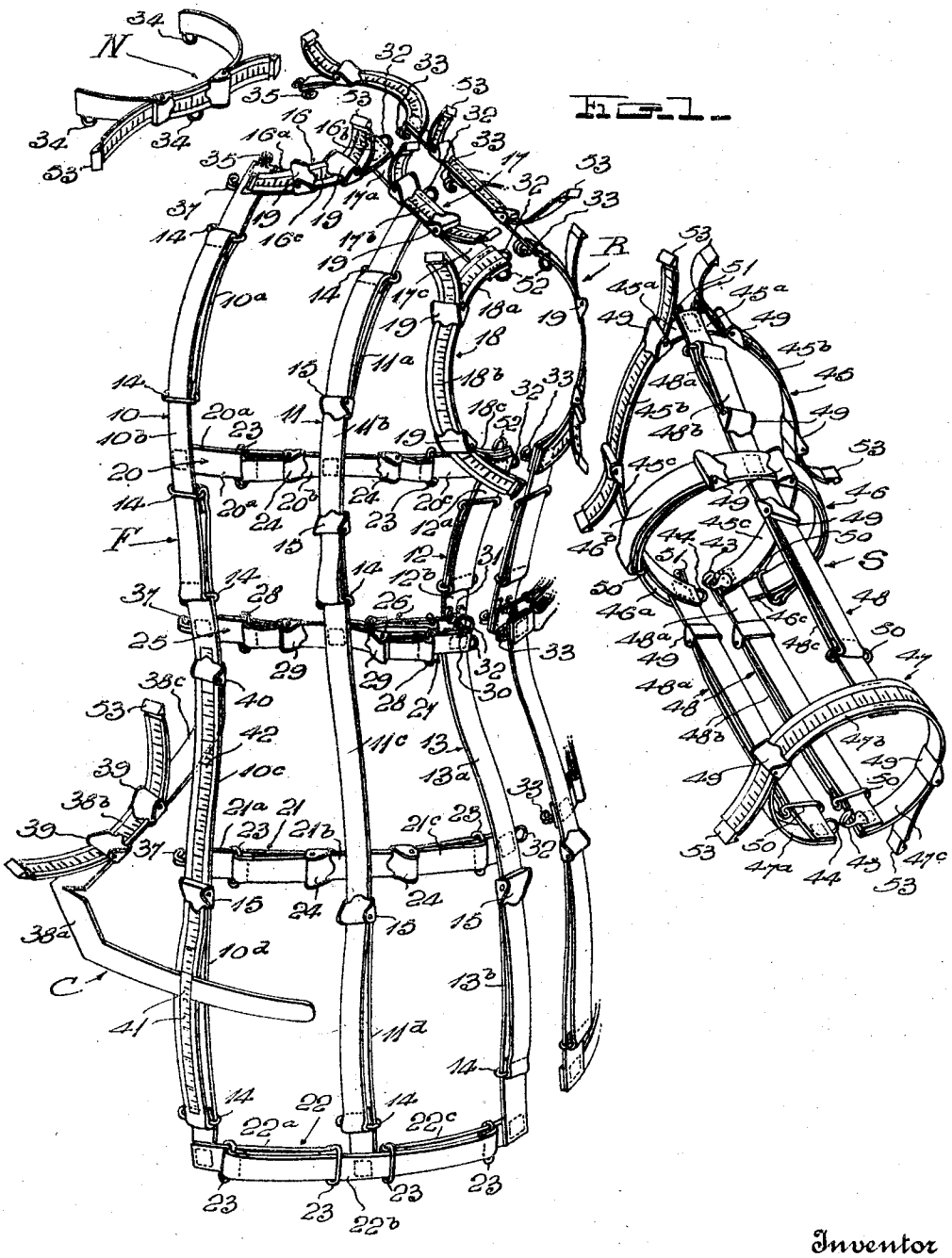
Dec. 16, 1930. M. G. COUTURE 1,784,889

PATTERN CUTTING HARNESS

Filed March 8, 1929 3 Sheets-Sheet 1



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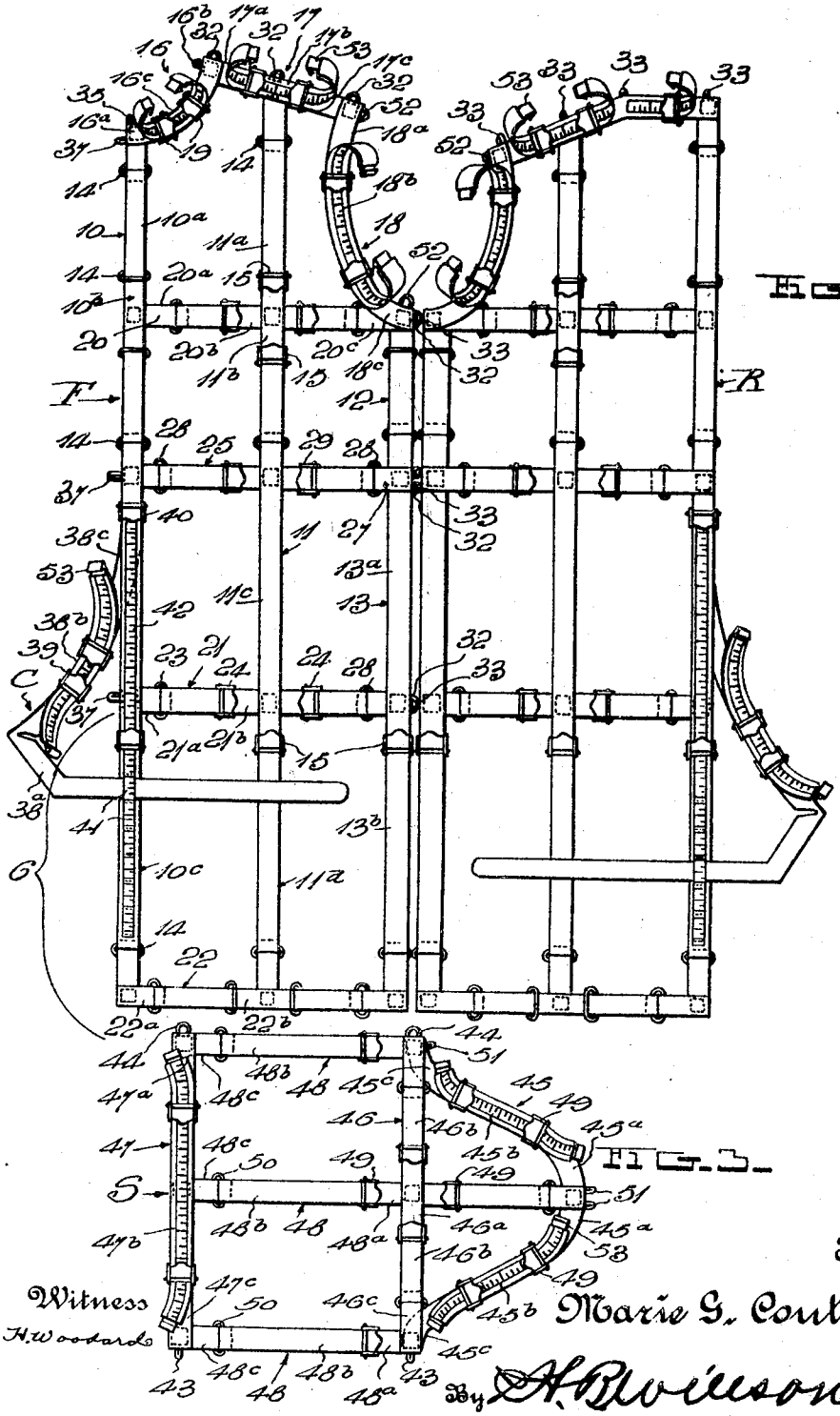


Fig. 2.

Fig. 3.

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FIG. 4.

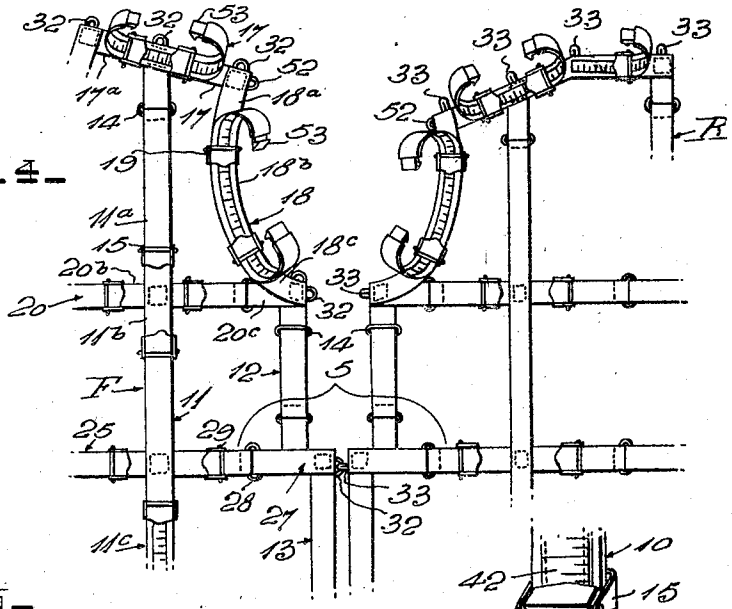


FIG. 5.

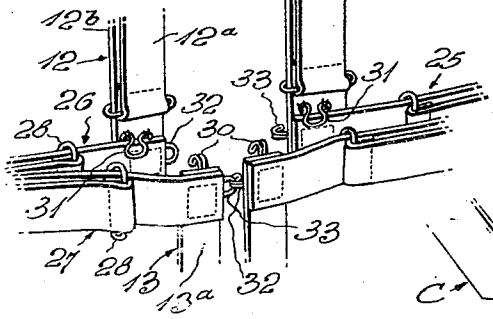


FIG. 6.

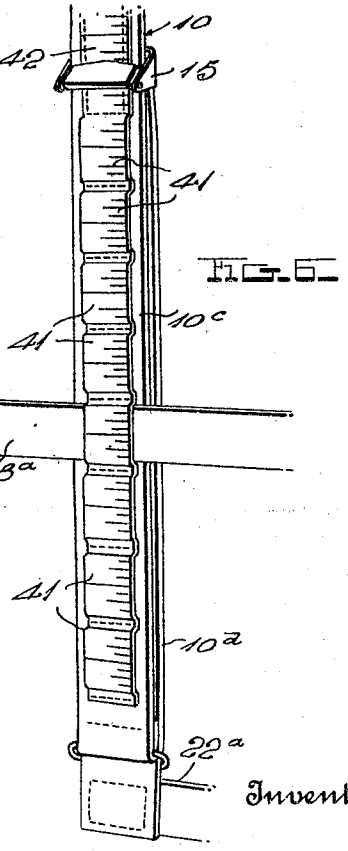


FIG. 7.

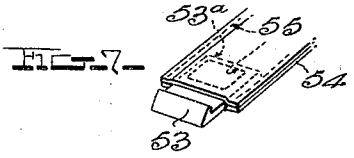
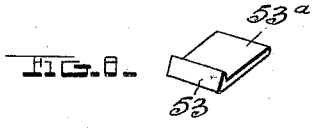


FIG. 8.



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UNITED STATES PATENT OFFICE

MARIE G. COUTURE, OF CONCORD, NEW HAMPSHIRE

PATTERN-CUTTING HARNESS

Application filed March 8, 1929. Serial No. 345,575.

The invention relates to a harness for use by dressmakers, tailors and others, in cutting garment patterns from paper or other desired material.

One object of the invention is to provide a new and improved harness which may be readily adjusted as occasion may demand, by application to a form which is preferably of the construction shown in my U. S. application Serial No. 345,574, filed March 8, 1929. The form is so adjusted and set as to reproduce the height, figure, etc., of any individual for which clothing is to be made, and the harness is then adjusted and set by fitting it upon the form. Thus, the adjusted harness when removed from the form and spread out flat, will be a very desirable guide for use in cutting patterns for a garment to fit the adjusted form and to consequently fit the individual for which the form is set.

A further aim is to provide a harness which may readily be adjusted to cut patterns for dresses of different styles.

Another object is the provision of a unique crotch cutting portion for use when cutting patterns either for bifurcated skirts or for trousers.

Yet another aim is to provide a construction which will be rather simple and inexpensive, yet efficient and in every way desirable.

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

Fig. 1 is a disassembled perspective view.

Fig. 2 is a plan view of the body portion of the harness flattened out in readines for use as a guide for pattern cutting, upon separation of its front and rear sections.

Fig. 3 is an elevation showing the sleeve section of the harness flattened out.

Fig. 4 is a view similar to the upper portion of Fig. 2 but illustrating adjustment of the front and rear sections of the harness for use in cutting a pattern of different design.

Fig. 5 is an enlarged perspective view of the portions of the device embraced by the bracket 5 of Fig. 4.

Fig. 6 is an enlarged perspective view of the portions of the device embraced by the bracket 6 of Fig. 2.

Fig. 7 is a perspective view illustrating the head and the attaching means therefor, provided at the ends of a number of the strap sections to prevent pulling of these sections from the associated buckles or other guides.

Fig. 8 is a perspective view of the head and the attaching tab thereof.

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, conspicuous 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 omitted from the disclosure to prevent confusion with the reference numbers necessary in the following description.

In the drawings above briefly described, an adjustable harness is shown embodying a front section F, a rear section R, a sleeve section S and a neck strap N, these parts being constructed and related with each other as hereinafter specifically described. It may be explained however that the front section F and the rear section R are substantially duplicates, and hence the descriptive matter will be confined only to the front section F.

Section F embodies a front strap 10 disposed vertically, an intermediate vertical strap 11, an upper rear strap 12 and a lower rear strap 13. Straps 10, 11, 12 and 13 all consist of a plurality of adjustably con-

nected sections denoted by the numbers 10—11—12, together with suffixes such as *a*—*b*—*c*, etc. Then too, to slidably connect the strap sections, I make use of appropriate guides 14, and most of these straps are provided with buckles 15 for holding them in adjusted positions.

An arcuate neck strap 16 is connected at one of its ends with the upper end of the front strap 10 and is connected at its other end with the upper end of a shoulder strap 17. The intermediate portion of this strap 17 is connected to the upper end of the strap 11 and the lower end of said strap 17 is connected with the upper end of an arm-hole strap 18, the lower end of the latter being connected with the upper end of strap 12. The straps 16—17—18 each comprise a plurality of sections denoted by the numbers 16—17—18 plus the suffixes *a*—*b*—*c*, and appropriate buckles 19 are employed wherever advisable to hold the strap sections in adjusted position.

A horizontal bust strap 20 is connected at its front end with the front strap 10, is connected at its intermediate portion with the strap 11, and is connected at its rear end with the straps 12—18. Then too, a hip strap 21 and another strap 22 below said hip strap, are connected with the straps 10—11—13. Each of the straps 20—21—22 consists of slidably engaged sections denoted by the numbers 20—21—22 and suffixes *a*—*b*—*c*, and guides 23 and buckles 24 are provided where needed.

A waist strap 25 is connected with the straps 10 and 11 and is bifurcated at its rear end. One furcation of this strap 25 is denoted at 26 and the other at 27, said furcations 26—27 being secured to the straps 12—13 respectively. Strap 25 is formed of adjustable sections connected by guides 28 and buckles 29, the arrangement being such that said strap may be adjusted between the straps 10—11 and between the straps 12—13 and said strap 11.

When preparing the harness for cutting patterns of plain designs, the strap furcations 26—27 are adjusted to the same length and consequently the straps 12—13 are vertically alined as seen in Figs. 1 and 2. However, when different designs are to be produced, the furcations 26—27 may be relatively adjusted so as to offset the straps 12—13 as seen in Fig. 4. For connecting these furcations with each other when they are adjusted to the same length, a hook 30 and an eye 31 are provided. Then too, along the rear edge of the section F, eyes 32 have been shown for engagement with hooks 33 on the rear section R for the purpose of detachably connecting the two sections while they are being adjusted upon a form. The neck strap N above mentioned, co-operates with the neck straps of the harness sections F—R in encircling the neck of the form, said neck strap like numerous other straps of the device, being formed of relatively adjustable sections. Eyes 34 are shown on this strap N for engagement with hooks 35 at the ends of the neck straps of the front and rear sections F—R. Additional hooks 37 are shown at the outer vertical edge of the strap 10. These hooks and similar elements at the corresponding edge of the section R, are instrumental in holding the pattern-cutting harness upon the measuring harness of application Serial No. 345,573, if desired.

The portion of the harness below the waist strap 25, is provided with a crotch angle C which is formed of relatively adjustable sections 38^a—38^b—38^c connected by appropriate buckles 39. The upper end portion of the angle C is curved and is adjustably connected with the strap section 10^c by means of a buckle 40. The lower end portion of the angle C is substantially straight and is slidably receivable in any of a plurality of vertically spaced loops 41 which are secured to the strap sections 10^c. Vertical adjustment of the lower end portion of the angle C is effected by removing it from one loop 41 and inserting it into another, according to the adjustments necessary for the upper portion of the angle effected by means of the buckles 39. Then too, by sliding the lower end of the angle inwardly or outwardly through the receiving loop, the effective part of said angle will project a greater or lesser distance beyond the edge of the harness, as occasion may demand.

For adjusting the angle C, I stitch an appropriate measuring tape 42 to the strap section 10^c, and the loops 41 are provided by leaving portions of this measuring tape free from said strap section, thereby making said tape perform a unique two-fold function. Additional measuring tapes may be used wherever desired and as those shown are self-identifying, no specific reference thereto will be required.

The sleeve section S of the harness is of longitudinally split form but is provided with hooks 43 and eyes 44 at its split edges to hold it in sleeve form when desired. This sleeve section embodies an upper band 45, an intermediate band 46, and a lower band 47, said bands being connected by longitudinal straps 48. All of the parts 45—46—47—48 are formed of relatively adjustable sections bearing the same numbers plus the suffixes *a*—*b*—*c*—*d*. To hold these sections in adjusted position, buckles 49 are shown, and guides 50 may also be employed where desired. Hooks 51 are provided at the upper end of the sleeve section S for engagement with eyes 52 on the harness sections F—R for holding the band 45 in edge-to-edge relation to the arm-hole band jointly formed by portions of the front and rear sections F—R, it being understood that said sleeve

section S is connected with the remainder of the harness only when initially adjusting said sleve section to proper dimensions.

On most of the straps disclosed, rubber heads 53 are provided to prevent accidental pulling from the buckles or other strap-guiding means. These heads are carried by attaching tabs 53[a] of rubber (Figs. 7 and 8), said tabs being received between different plies 54 of the strap. Stitching 55 secures these strap plies together and some of said stitching passes both through the plies and through the tab 53[a], thereby effectively attaching the head.

Due to the elasticity of the head 53, it may be deformed sufficiently to pass through the strap connecting means (for instance 23 or 24). Hence, the various heads may if desired be attached to the straps before assembly of the harness. Moreover, if any strap must be removed, for instance, to substitute a new strap, its elastic head may be deformed for passage through any buckle or the like which would otherwise interfere with strap removal.

The entire harness with the exception of such trappings as the buckles, is constructed from textile fabric or other desired material which is readily pliable and permits true fitting of the assembled harness upon the form. When this harness has been properly set in adjusted position upon the form, it is removed, its sections are disassembled from each other, and when these sections are laid out flat, they form effective guides for cutting patterns from paper or other desired material.

Excellent results have been obtained from the general construction shown and described and it is therefore preferably followed. Within the scope of the invention as claimed however, numerous variations may be made and obviously I am not restricted to such details as proportions, materials, etc.

I claim:—

1. In a pattern cutting harness, a sleeve longitudinally split throughout its length on one line only and formed of freely pliable non-resilient longitudinally adjustable straps, two of said straps being disposed longitudinally along the split, another of said straps being disposed at the lower end of the sleeve and having its ends joined to said two straps respectively, still another of said straps being at the upper end of the sleeve, being arched and having outwardly curved ends joined to said two straps respectively, and releasable means for holding the straps in sleeve form, release of said means allowing the sleeve to be laid flat, the above specified straps then jointly forming a continuous edge along which to cut a sleeve pattern.

2. An adjustable pattern cutting harness comprising front and rear detachably connected body sections each having waist, hip and arm-hole straps, a vertical strap on each section extending downwardly from said arm-hold straps and connected with said waist and hip straps, and means whereby the portions of said vertical straps above said waist straps may be adjusted forwardly or rearwardly with respect to the vertical strap portions below said waist straps.

3. In an adjustable pattern cutting harness, an arm-hole strap, a waist strap, a hip-strap, vertical strap means extending downwardly from the arm-hole strap and connected with said waist and hip straps, and means whereby the part of said vertical strap means above said waist strap may be adjusted forwardly or rearwardly with respect to the part of said vertical strap means below said waist strap.

4. In an adjustable pattern cutting harness, an arm-hole strap, a waist strap having a bifurcated end for disposition at one side of the body, at least one furcation of said bifurcated end being extensible, a lower horizontal strap terminating under said bifurcated end of the waist strap, an upper vertical strap connected at its ends to the arm-hole strap and one furcation of the waist strap respectively, and a lower vertical strap connected at its ends to the other of said furcations and said lower horizontal strap respectively.

5. A structure as specified in claim 4; together with means for connecting the free ends of said furcations with each other when adjusted to the same length.

6. In an adjustable pattern cutting harness, a horizontal strap having a bifurcated end at least one furcation of which is extensible, and upper and lower vertical straps connected with the furcations of said bifurcated end, respectively.

7. A structure as specified in claim 6; together with means for connecting the free ends of said furcations with each other when adjusted to the same length.

8. In an adjustable pattern cutting device, a below-waist portion having a vertical edge, a crotch angle connected at one end with said portion and projecting beyond said edge, and vertically spaced loops through any of which the other end of said angle is insertible, said loops being secured to said portion along said edge.

9. In a harness of or analogous to the class described, overlapping slidably engaged straps and connecting means therefor, an elastic head at an end of one strap to prevent pulling thereof from said connecting means, a tab carrying said head, and means securing said tab to said strap end, the elasticity of said head allowing sufficient deformation thereof to pass through said connecting means after attachment of said tab to the strap end.

10. In a harness of or analogous to the

class described, overlapping slidably engaged straps and connecting means therefor, a head at an end of one strap to prevent pulling thereof from said connecting means, a tab carrying said head and inset in said strap end, and stitching passing through said strap end and through said tab, said strap end being of plural ply form and having its plies secured together by said stitching.

In testimony whereof I have hereunto affixed my signature.

MARIE G. COUTURE.