Oct. 6, 1936. I. ROSENFELD 2,056,740

FLEXIBLE MODEL FORM

Filed Feb. 24, 1936

Fig. 1.

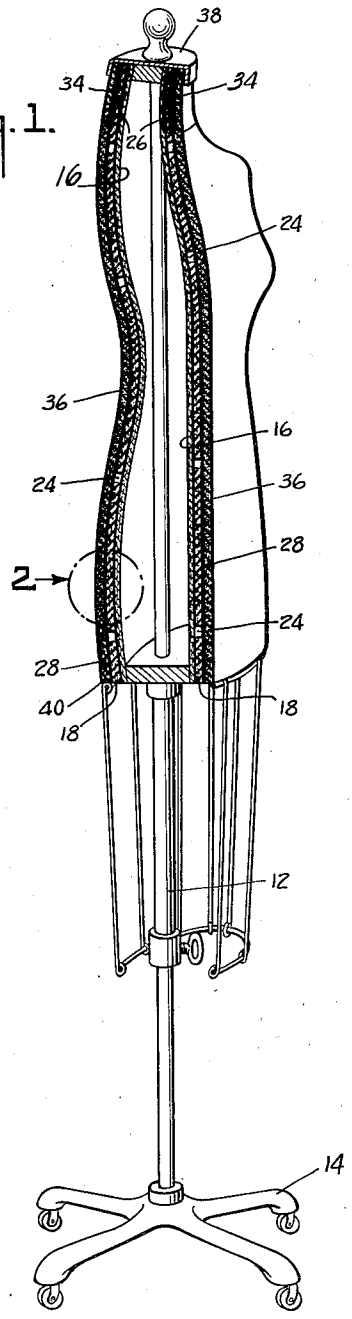
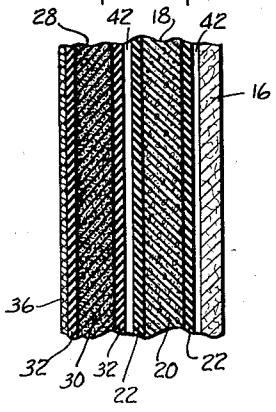


Fig. 2.



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FLEXIBLE MODEL FORM

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3 Claims. (Cl. 223—68)

My invention relates to model forms, that is, simulations of the human body used by clothing manufacturers in the fitting and modelling of garments.

Most model forms have a hard, unyielding, non-resilient and inflexible surface, which makes it a matter of some difficulty to properly mold and fit certain garments. It has been proposed to make model forms with inflatable air cushion coverings, but these too will not be practical because their surfaces will go to the other extreme, and will be too yielding for practical fitting and modelling purposes. It is, therefore, the main object of my invention to provide a model form which will be flexible and yielding to the touch and firm and resistant enough to permit proper fitting and modelling.

A further object of my invention is to provide a model form of the character described which has a relatively inflexible body portion with a plurality of layers of soft and resilient material.

It is a further object of my invention to provide a model form which has a relatively inflexible body portion with a plurality of layers of material of different degrees of softness and resiliency.

It is a further object of my invention to provide a model form which has a relatively inflexible body portion with a plurality of layers of resilient material which are relatively movable to the body portion.

It is a further object of my invention to provide a model form which has a relatively hard and unyielding body portion with a plurality of layers of soft and resilient materials which are relatively movable to the body portion and to each other.

It is a further object of my invention to provide a model form which has a relatively inflexible body portion with a plurality of layers of resilient material air cushioned from one another and to the body portion.

Other objects will in part be apparent, and in part be pointed out hereinbelow in connection with a description of an illustrative embodiment. In the drawing annexed hereto and made a part hereof:

Fig. 1 is a longitudinal section through one embodiment of a model form constructed according to and embodying my said invention; and

Fig. 2 is an exaggerated enlarged view of the portion within the circle indicated on Fig. 1 by reference character 2.

Referring to Fig. 1, model form 10 is formed and secured on conventional frame 12 which is mounted on a movable platform base 14. Body 16 of the form is of a relatively hard and inflexible material such as papier-mâché, or compressed cardboard, molded or otherwise formed into the desired shape size. Body 16 represents the base portion, the very foundation of my improved model form.

Directly over body 16, I place a covering layer 18, of sheets of porous rubber. This layer 18 comprises a rather loose, granular and air filled interior 20, and is provided on both sides thereof with smooth rubberized coatings 22, 22. If desired, layer 18 may be merely composed of sheets of the loose, porous and granular rubber with smoothed and evened surfaces. I form a number of perforations 24, extending through the thickness of layer 18, to make for greater compressibility thereof.

Layer 18 is secured to body 16 only at the upper portion thereof, by cementing, etc., as shown at 26, so that the major portion of layer 18 is relatively movable with respect to body 16. If desired, layer 18 may be entirely cemented, or otherwise immovably secured to body 16, but I have found the preferable construction to be one where the covering layer is movable with respect to the body, as described.

A second layer 28, similarly of granular and porous rubber, is placed over layer 18. Layer 28, at the interior 30 thereof, also is porous, and this inside material is covered on both sides with smooth rubberized coatings 32, 32. If, as stated in connection with layer 18, it is desired, layer 28 may consist merely of the granular material with smoothed and evened surfaces. This second layer, while somewhat similar to covering 18, differs therefrom to a very considerable degree in the character of the porous rubber cores. While both are of granular composition, layer 28 has much less air and smaller air cells therein, has much more rubber material, and is consequently much less soft and has much less resiliency, by which term I mean yieldability to pressure and working.

The resulting arrangement of the superpositioning of layer 28 over layer 18 provides a relatively unyielding surface 28 over a very yieldable interior 18 backed up by a hard and absolutely unyielding foundation 16, all more or less in simulation of the human body.

Such arrangement permits of easy working in connection with the fitting and modelling of garments, for whenever necessary, a portion of the form can be compressed within a desired

compass, or moved over a bit to gain any desired effect.

The similarity to the human form is heightened by the fact that the layers **18**, **28**, are relatively slidable, not only to each other but also to the body portion **16**. Layer **18** is secured to body **16** at its upper end, at **26**, and layer **28**, over and on top of layer **18**, is similarly secured only at the top end, as at **34**. The smooth rubberized coatings **22**, **32** will aid in allowing the two layers free play in sliding along one another and along body **16**.

Over this built-up structure, and to complete the form, I place a covering **36** of silk, cotton, canvas or other suitable material, and cap the top of the form by a head piece **38** which fits over the top and down the sides thereof. At the bottom **40** of the form covering **36** is merely folded around and up along the inside of body portion **16**. Due to the character of covering **36**, air will pass therethrough and up between layers **18**, **28**, and body portion **16** to provide air spaces **42**, **42** and thus give an additional cushioning effect between the layers and promote a better sliding relationship therebetween.

It should be understood that air spaces **42**, **42**, have no definite character as to size and shape and are created solely because layers **18**, **28** and body portion **16** are not secured together, except at the upper ends thereof.

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

1. A model form comprising a rigid body member substantially in simulation of the human form, and a plurality of layers of resilient material thereon, said layers following the outline of the body member and taking its shape, and being of different degrees of resiliency.

2. A model form comprising a rigid body member substantially in simulation of the human form, and a plurality of layers of resilient material thereon, said layers being of substantially uniform thickness and following the outline of the body member and taking its shape, said layers being slidable relative to each other.

3. A model form comprising a firm, inflexible body member substantially in simulation of the human form, a plurality of layers thereover of resilient material, said layers having smooth surfaces and being shiftable and slidable relative to each other and to the body member.

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