Oct. 4, 1932. L. CELLA 1,880,798

ADJUSTABLE BUST FORM

Filed Sept. 29, 1930

Fig. 1.

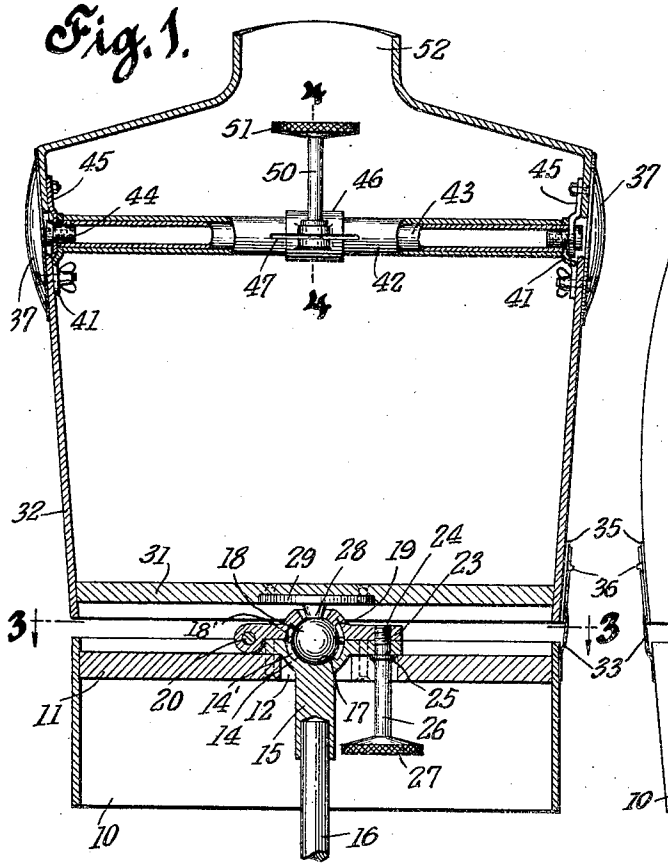


Fig. 2.

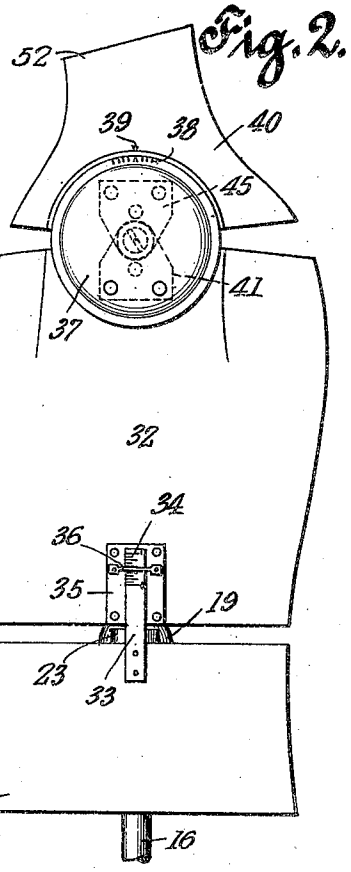


Fig. 3.

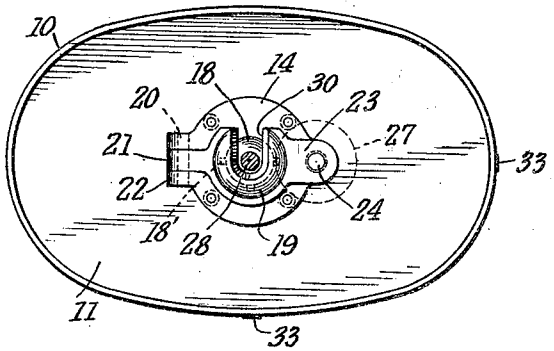
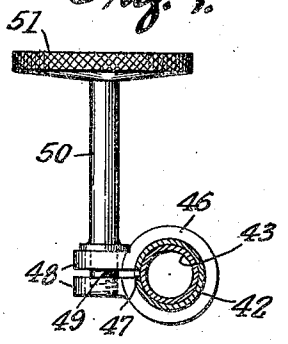


Fig. 4.



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UNITED STATES PATENT OFFICE

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ADJUSTABLE BUST FORM

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This invention relates to forms as used by tailors, dressmakers, etc., etc., on which to fit articles of wearing apparel, and more particularly to forms for the bust or upper portion of the body.

Such bust forms are made in different sizes relative to certain measurements of the body, but fail to take into consideration many of the peculiarities of the individual being fitted, as for instance, difference in height of the shoulders, curvature of the upper part of the spine, stooped position, and the like, all of which exist in a more or less pronounced degree in the majority of persons.

It is therefore an object of the present invention to provide a bust form adjustable to the idiosyncrasies of the individual to be fitted, so that a garment shaped to the form will certainly fit the person to whom the form was adapted.

A further feature is in the provision of easily operated means for clamping the movable elements of the bust form in their adjusted positions.

Another purpose is to produce an articulated bust form having means by which its sections may be reset to such inclinations from normal as may be necessary.

These advantageous objects are attained by the novel construction, combination and arrangement of parts hereinafter described and shown in the accompanying drawing, constituting an essential component of this disclosure, and in which:—

Fig. 1 is a longitudinal sectional view of an embodiment of the invention shown from side to side, with the mechanism therein.

Fig. 2 is a side elevational view of the bust form.

Fig. 3 is a transverse sectional view taken on line 3—3 of Fig. 1.

Fig. 4 is a sectional view of the shoulder clamp device, taken on a line to one side of the line 4—4 of Fig. 1.

Referring in greater detail to the drawing, the numeral 10 designates the lower portion of the bust form, consisting of a hollow tube of ovoidal cross section, having fixed in its interior, near the upper edge, a rigid plate 11, provided with a central opening 12.

Secured on the plate, to cover the opening 12, is a block 14 having a pendant stem 15 in which is set a rigid support bar 16 extending downwardly to a pedestal on the floor, as will be understood.

Formed in the upper surface of the block is a semi-spherical seat 17 suited to receive a globular poll 18 to rotate therein, the poll being held in adjustment by a clamp 19 hinged by a pin 20 passing through the clamp extension 21 and lugs 22 formed on the block.

An opposite extension 23 is engaged by a screw 24 having a shoulder 25 abutting the underside of the block 14 and provided with an extending stem 26 passing freely through the plate 11 and block 14 and provided with an operating knob 27.

The poll 18 is further provided with extending pins 18′ loosely receivable in guiding slots 14′ to prevent radial movement of the main portion 32 with respect to the lower portion 10.

The poll 18 is connected by a stem 28 with a disc 29 and is adapted to pass through a lateral opening 30 in the clamp, which is shaped to permit of a limited angular movement of the stem 28.

The disc 29 is fixed in the under surface of a plate 31 firmly engaged, near the lower end of the body or main portion 32 of the bust form, shaped coincidently with the lower portion 10 and spaced thereabove, as seen in Figs. 1 and 2, to permit relative tilting on the poll 18.

Fixed on the front and on one side of the lower section 11 are strips 33 graduated at their upper extending ends to produce scales 34 which pass over plates 35 secured thereabove on the body portion 32, the scales being read in connection with horizontal bars 36 fixed on the plates over the scales, as best seen in Fig. 2.

The upper, expanded end of the body section 32 has at the shoulder portions, convex cover plates 37 provided at their upper peripheral edges with scale graduations 38 readable in connection with arrow marks 39 on the shoulder section 40 of the bust form.

Carried by the body portion 32 are brackets

41 oppositely disposed and having inreaching elements to which are fixed the ends of a connecting tube 42 arranged axially of the shoulders and enclosing a smaller tube 43 having fixed in its ends inreaching plugs 44 rigidly carried by another pair of brackets 45 secured to the upper section 40.

A cylindrical clamp 46 surrounds the outer tube 42, which may be split as at 47, the clamp having extending lugs 48 to receive a shouldered clamp screw 49 having a stem 50 terminating in a knob 51 accessible through the open throat element 52 of the upper section.

This arrangement permits of an independent tilting movement of the upper portion whereby the bust form may be made to assume stooped or erect positions, and, due to to the scale 38—39, this position may be repeated at any subsequent time with entire accuracy.

The exterior of the bust form may be encased in any suitable fabric, so that no gaps appear at the ends of the several sections and it is apparent that, after adjustments have been made, the elements may be securely clamped in a convenient manner.

Although the foregoing is descriptive of the preferred embodiment of the invention, it will be apparent that minor changes may be made in the construction, without the exercise of invention or conflicting with the scope of the claims hereto appended.

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

1. A bust form having a body and a shoulder section, a tube fixed at its ends in said body section in register with the shoulders, a second tube carried at its ends by said shoulder section to extend through the first tube, said tubes constituting a hinge on which the shoulder element may tilt, and means for clamping the tubes firmly together when the sections are in adjustment.

2. A bust form comprising a hollow body having articulated sections including a base section, a body section and a shoulder section, a connection between the base and body sections whereby the body may be universally inclined with respect to the base to a limited degree, means for clamping said sections in adjusted position, a tube fixed at its ends in said body section in register with the shoulders, a second tube carried at its ends by said shoulder section to extend through the first tube, said tubes constituting a hinge on which the shoulder element may tilt, and means for clamping the tubes firmly together when the sections are in adjustment.

3. A bust form having a body and a shoulder section, a tube fixed at its ends in said body section in register with the shoulders, a second tube carried at its ends by said shoulder section to extend through the first tube, said tubes constituting a hinge on which the shoulder element may tilt, means for clamping the tubes firmly together when the sections are in adjustment, convex plates fixed to said body section at the shoulders, and indexes carried by said plates to cooperate with a marking on the shoulder section adjacent the plate indexes to indicate the relative position of said sections.

4. A bust form comprising a hollow body, having articulated sections including a base and a body section, a rigid plate within the base section, a block fixed to said plate, said block a globular poll affixed to said body section and receivable in the block seat having a semi-spherical seat, a clamp hinged to said block, pins extending from said poll, guiding slots in said seat adapted to loosely receive said pins to preserve relative radial alinement between the body and base sections, and means for varying the friction between the poll and its seat.

Signed at New York, in the county and State of New York.

LUIGI CELLA.