

E. KASRALOWICZ.
METHOD OF MANUFACTURING GARMENT FORMS.
APPLICATION FILED OCT. 8, 1910.

988,108.

Patented Mar. 28, 1911.

Fig. 1.

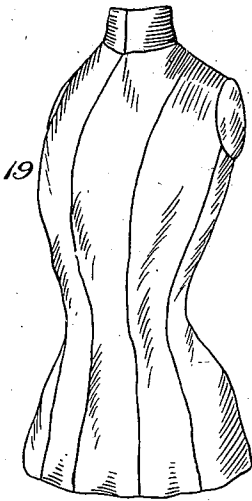


Fig. 2.

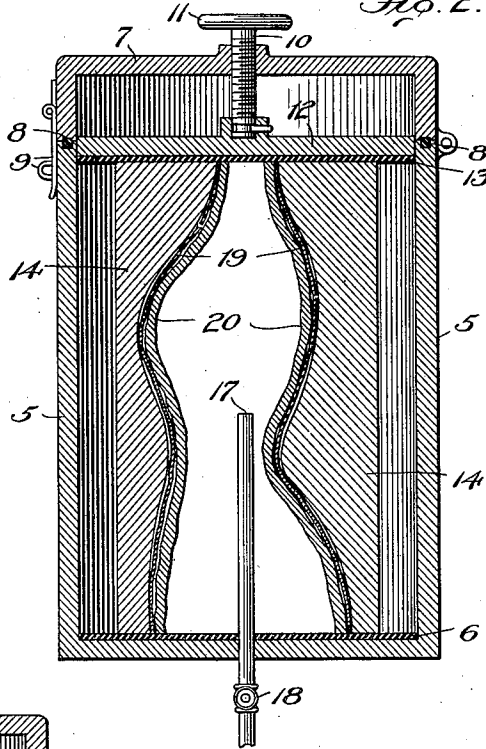


Fig. 3.

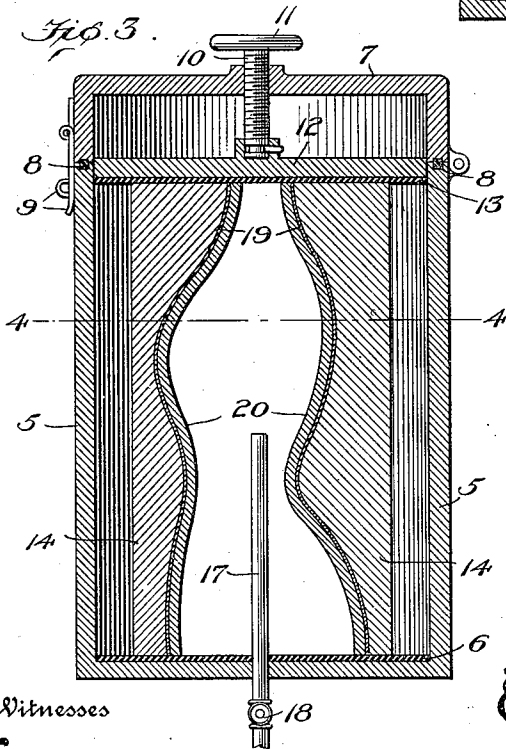
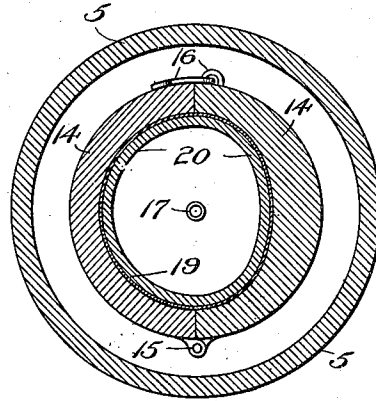


Fig. 4.



Inventor

Ely Kasralowicz
By *Wm. E. Doyle*
Attorney

Witnesses

Edwin L. Bradford
M. D. Ballant.

UNITED STATES PATENT OFFICE.

ELY KASRALOWICZ, OF NEW YORK, N. Y.

METHOD OF MANUFACTURING GARMENT-FORMS.

988,108.

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To all whom it may concern:

Be it known that I, ELY KASRALOWICZ, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Methods of Manufacturing Garment-Forms; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to the manufacture of garment forms but more particularly to a new and improved method of operation. In its broadest aspect this method comprises the production of a mold of the desired internal configuration, introducing therein a coating of self hardening plastic material, closing said mold to practically seal it, and finally introducing fluid or other flowing substance to the interior of said self hardening material under pressure, whereby said plastic material is caused to conform accurately to the shape of the mold.

The method will be hereinafter described and particularly pointed out in the claims following, and for the purpose of clearly setting forth said method one form of apparatus employed in practicing same will also be hereinafter described.

In the accompanying drawings which form part of this application, and wherein like numerals indicate corresponding parts in the several views, Figure 1 is a lining of flexible fabric or the like having been turned as illustrated with all seams on the inside. Fig. 2 is a longitudinal central sectional view through an outer air tight receptacle, a two part mold member, and a garment form in the first stages of manufacture. Fig. 3 is also a longitudinal central section of parts shown by Fig. 2, with the garment form in the second stage of manufacture or inflated to conform accurately to the shape of the mold, and, Fig. 4 is a transverse horizontal sectional view taken on the line 4-4, Fig. 3.

Reference being had to the drawings and numerals thereon, 5 indicates an outer closure or air tight receptacle preferably of sheet metal and of cylindrical form having an elastic floor or bottom covering or sheet 6 as of rubber, a hinged lid or cover 7 adapted to close upon an annular packing gland

8, and suitable fastening means such as 9, shown by Figs. 2 and 3.

Passing centrally through the lid or cover 7 in threaded relation is a screw 10 having an outside hand wheel 11 and swiveled upon a presser plate 12 having an elastic or yielding inner face or sheet 13 and consequently adapted to partake of a limited vertical movement within the confines of the receptacle 5.

The numeral 14 indicates a mold preferably made of two parts hinged together vertically as at 15 and adapted to be secured at points diametrically opposite by hooks and eyes 16, as shown by Fig. 4; while into the center of receptacle 5 from below projects an air pipe 17 guarded by a valve 18 outside of said receptacle.

The numeral 19 indicates a lining of flexible fabric or like material, with seams on the inside, and of a configuration to substantially correspond with the internal shape of the mold 14; and 20 indicates a coating of self hardening plastic material which in the process of manufacture becomes the body of the garment form to be produced.

In practicing my novel and improved method an outer lining 19 of a size practically corresponding with the form to be produced, is first made and turned inside out thus presenting a smooth or seamless outer surface, as shown by Fig. 1. This lining is thereupon introduced into the mold 14 followed by an inner body or coating of some suitable self hardening material in a plastic condition, such as layers of heavy paper thoroughly moistened in the form of pulp or in layers or sheets. In any event it is advisable, although not necessary, that the material 20 employed as a base or body for the completed form be treated or saturated with substantially equal parts of paraffin, wax, and rosin, or a composition of like properties, melted and boiled thoroughly together.

Mold 14 containing the outer lining or cover 19, and the inner body of plastic material 20 aforesaid, as indicated by Fig. 2, are next introduced in a closed and latched condition within the outer receptacle 5, its cover 7 is closed and latched, and the presser plate 12 set down by action of screw 10 until the said mold members 14, 14 and contents are securely closed and held between the

elastic packing sheets 6 and 13, as shown by Fig. 2. Thereupon a suitable flowing substance, preferably a fluid such as air, is introduced under the required pressure, into the structure from pipe 17, causing the said plastic material 20 and its outer lining 19 to conform accurately with the internal configuration of the mold, after which they are removed from the mold, and finally dried. Thus it will be noted that finished garment forms of various shapes and sizes may be quickly and accurately made without the necessity of hand finishing, their shape being limited only by that of the molds 14, and the size by the inner dimensions of the outer casing or receptacle 5, which should be of a size sufficient to receive molds large enough for the largest stock sizes of finished garment forms.

Obviously, the apparatus hereinbefore described, and the materials specified may be varied indefinitely without departing from the method claimed; and it will be noted that a fairly satisfactory garment form would be produced if the outer lining 19 or the outer receptacle 5 were not employed and those steps in the process omitted.

Having thus described my invention, what

I claim and desire to secure by Letters Patent is:

1. The method of producing garment forms which consists in introducing into a non-yielding mold of the desired internal shape a flexible lining of fabric or the like adapted to fit the mold when fully distended, covering said lining internally with a lining of self hardening plastic material, closing the mold, and introducing within the confines only of said plastic material a flowing substance under pressure.

2. The method of producing garment forms which consists in providing a non-yielding mold of the desired internal shape, introducing into the mold a layer of self hardening plastic material, closing said mold and introducing within the confines only of said plastic material a flowing substance under pressure whereby said plastic material is made to conform accurately to the internal shape of the mold.

In testimony whereof I affix my signature, in presence of two subscribing witnesses.

ELY KASRALOWICZ.

Witnesses:

HUGH M. STERLING,
WM. E. DYRE.