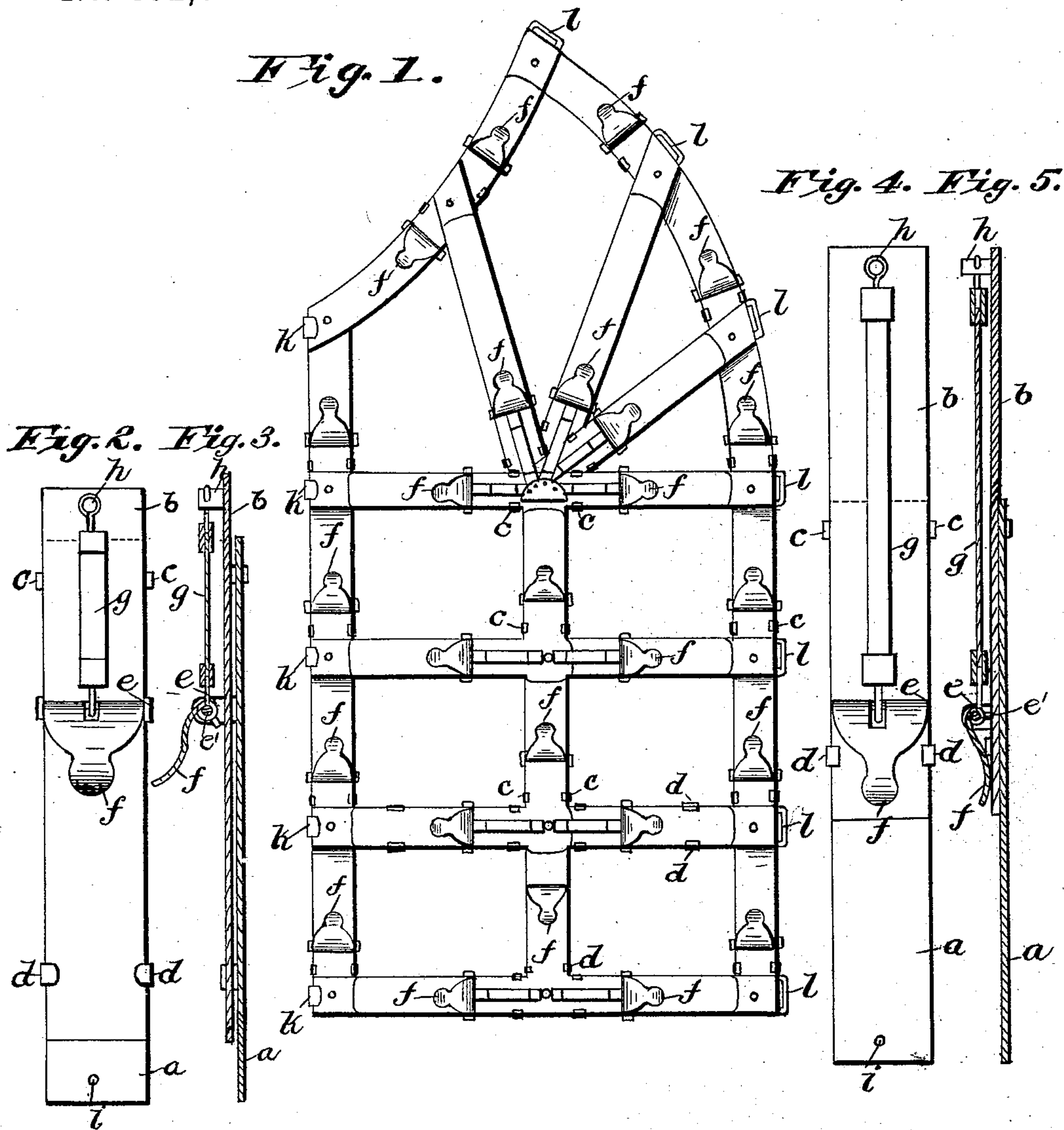


(No Model.)

L. D. FRENOT & J. F. EYBOULET.
ADJUSTABLE PATTERN FOR DRAFTING GARMENTS.

No. 492,670.

Patented Feb. 28, 1893.



WITNESSES

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UNITED STATES PATENT OFFICE.

LOUIS DÉSIRÉ FRENOT AND JULES FRANÇOIS EYBOULET, OF NEWARK,
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ADJUSTABLE PATTERN FOR DRAFTING GARMENTS.

SPECIFICATION forming part of Letters Patent No. 492,670, dated February 28, 1893.

Application filed October 7, 1892. Serial No. 448,132. (No model.)

To all whom it may concern:

Be it known that we, LOUIS DÉSIRÉ FRENOT, jeweler, and JULES FRANÇOIS EYBOULET, tailor, citizens of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Adjustable Patterns for Drafting Garments; and we 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.

Our invention relates to adjustable patterns for drafting garments to be used in quickly outlining the correct and exact form of any part of wearing apparel, so that the cut of the same can be made at once, directly on the graphic outline given by the apparatus without necessitating trying the garment on the person after basting.

Our apparatus is composed of a large number of thin elastic metal blades sliding upon each other, which we frame together in about the shape of ordinary parts of garments, but the outlines of such parts, especially, are composed of as many pieces as possible, so that the outlines are able to take any irregular form. This necessitates the provision of other means, to quickly and easily set the pieces fast when they are extended, and to contract these pieces, so that the parts adjust themselves readily on the human body. We attain this object by the improved construction arrangement and combination of parts hereinafter fully described and afterward particularly pointed out in the claim.

We show in our drawings, forming part of this specification, as an example, the pattern for the side part of a coat, of which

Figure 1 is a plan view. Fig. 2 is a plan view of two blades sliding upon each other and provided with the elastic or spring for extending them and setting or clamping lever, the parts being in their contracted position. Fig. 3 is a longitudinal section thereof. Fig. 4 is a plan view of the two blades sliding upon each other and provided with elastic or spring for extending them and setting or clamping lever, the parts being in their extended position. Fig. 5 is a longitudinal section thereof.

Like letters of reference mark the same or

similar parts, wherever they occur in the various figures of the drawings.

Referring to the drawings by letters *a* and *b* are thin elastic blades of steel or equivalent material lying one flat upon the other so that they may slide upon each other. Lugs *c* on blade *b* overlap the edges of the blade *a* and lugs *d* on blade *a*, overlap the edges of the blade *b*, so that the blades are held together and are also prevented from extension beyond that point when these lugs *c* and *d* would come in contact with each other.

Upon blade *a* are provided two ears *e* which rise above blade *b* and in these ears *e* is pivoted (or trunnioned) upon a cross bar *e'* a cam lever *f* which, when depressed causes the blades *a* and *b* to be secured and held rigidly together. An elastic strip or band, or other spring *g* connects the clamp *f* to a pin *h*, and as the clamp is on blade *a* and the pin *h* on blade *b*, the normal tendency of this spring is to bring these blades to their contracted position, while the clamp will hold them in either their contracted or extended position.

A whole pattern for a particular part of a garment is composed of a number of such constructions as have just been described, they being connected together in forming a pattern, by rivets, or pivot pins through holes in the ends of the blades. At convenient places at the edges of a part hooks *k* and loops *l* are provided which may be riveted upon the blades, or may be formed by bending and perforating the metal. It will now be easily understood that a part formed of a number of such elements can be freely extended and contracted for nearly the double size, so that one pattern can be used for a child of six years as well as for a very stout man.

In employing our apparatus we operate in the following way: We loosen all clamp levers, *i. e.* we turn them up vertically to the plane of the pattern parts. Now we hook the part patterns together so that they form a complete garment, which we place over the body to be fitted. The elastic band will be substantially stretched out more or less, according to the peculiar shape of the body and the blades will everywhere adjust themselves to the body and be smooth on the same. Then

we turn all the levers down, thereby securing the position of the respective blades against each other, so that the parts of the patterns keep the stretched form, when the apparatus
5 is taken down from the body. The operation is completed by unfastening the hooks and by laying out each pattern part flat on the fabric, cutting out the parts thereupon in making the usual addition for the seams.
10 When the parts are sewed together, the fit will evidently be perfect.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

15 A pattern for drafting garments consisting of a number of connected adjustable members, each of which is provided with two su-

perposed flat elastic blades *a* and *b*, the blade *a* having lugs *d* at one end bent over and embracing the edges of blade *b*, and ears *e* extending at right angles by the sides of and beyond the blade *b*, a cross rod *e'* mounted in said lugs; the blade *b* having lugs *c* to embrace blade *a* and a pin *h* on same blade, the cam lever *f* pivoted on said cross-rod *e'*, and
25 the elastic strap *g* connecting said cross rod and pin *h* all as shown and described.

In testimony whereof we affix our signatures in presence of two witnesses.

LOUIS DÉSIRÉ FRENOT.

JULES FRANÇOIS EYBOULET.

Witnesses:

FRANK L. CAVENEGET,
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