H. DYER.

SHIRT-PATTERN GUIDES.

No. 193,936. Patented Aug. 7, 1877.

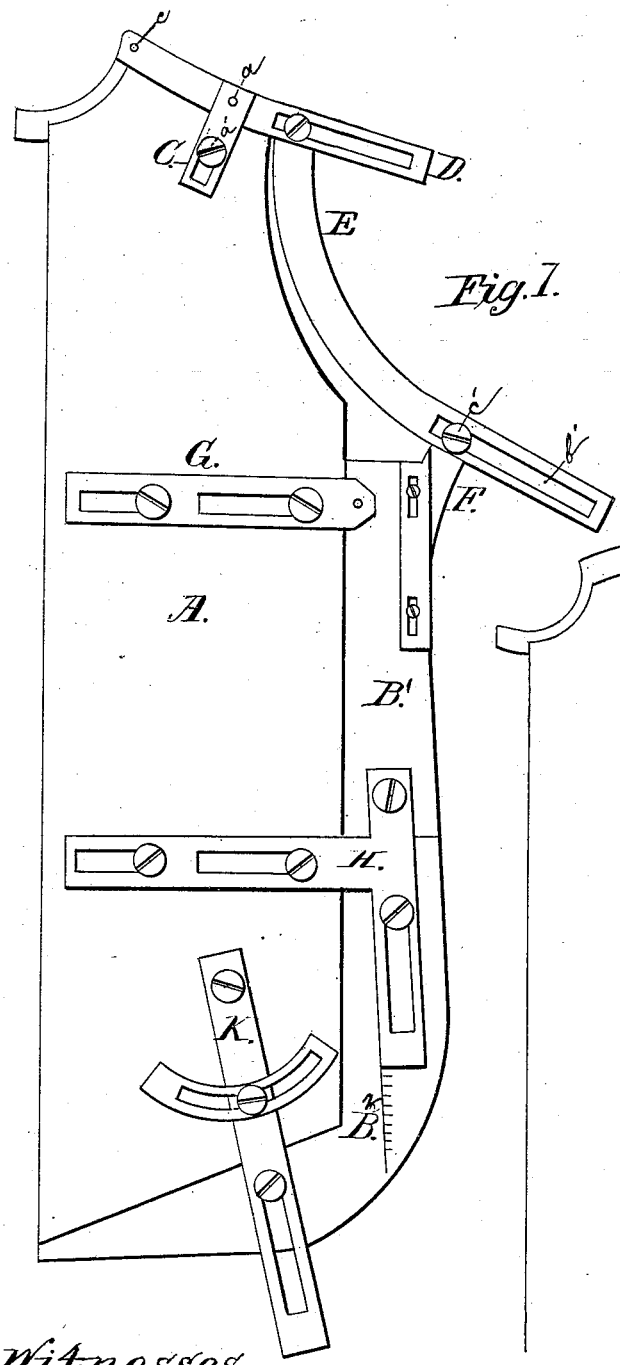

Fig. 1.

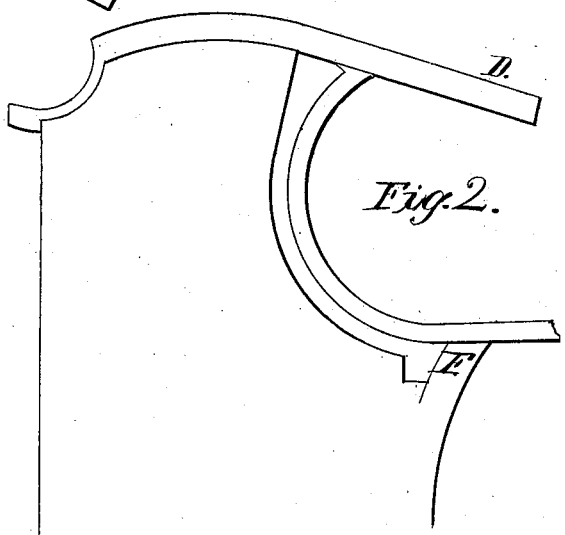

Fig. 2.

Witnesses.

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HENRY DYER, OF SPRINGFIELD, MASSACHUSETTS.

IMPROVEMENT IN SHIRT-PATTERN GUIDES.

Specification forming part of Letters Patent No. **193,936**, dated August 7, 1877; application filed March 15, 1875.

To all whom it may concern:

Be it known that I, HENRY DYER, of Springfield, in the county of Hampden and State of Massachusetts, have invented new and useful Improvements in Adjustable Shirt-Patterns, which improvements are fully set forth in the following specification and accompany drawings, in which—

Figure 1 represents a pattern for the back, and Fig. 2 represents a pattern for the front. Fig. 1 differs from Fig. 2 only in that it is longer than the latter.

Referring to the drawings, A is the body of the pattern. B^1 B^2 are two movable border-pieces. C F G H K are sliding connections attached to body A and border-pieces B^1 B^2 by loose and tight screws. D is a shoulder-line bar. E is a curved arm-hole-line bar. F is a slide on border-piece B^1, for the purpose of adjusting the movements of the latter and curved bar E to each other.

The object of my invention is to produce an adjustable shirt-pattern, in which the arm-hole and shoulder-lines are adjustable independently of each other, and of any of the other lines of the pattern, and in which the width and length of the body are adjustable independently of each other or together, and independently of the arm-hole or shoulder-lines.

I am aware that shirt-patterns have been made which are adjustable for width of body under the arms, and the width across the shoulders; but there is no provision in said shirt-patterns for adjusting for difference in size of arm-holes, nor for adjusting for cutting for sloping shoulders of varying pitch, nor for adjusting for designating a definite shoulder-line for cutting. Neither is any provision made for varying the length of the body.

I obviate the above-named faults in existing adjustable shirt-patterns, and provide, by the use of my improvements, a pattern for shirt-manufacturers which can, after the measurements of a person have been taken in the ordinary way with a tape-measure, be set by it, so that shirts with different sizes and positions of arm-holes, varying slopes of shoulders, definite shoulder-lines, and varying length of shirt-bodies can be cut by it. Also, I provide a means whereby the requisite size of the arm-hole can be preserved, though the shoulder-line should require to be raised or depressed, and vice versa.

The above-named variations in size and form I obtain by the use of my devices in the following manner, viz: To cut for a person with quite sloping shoulders, it becomes necessary to depress the shoulder-line bar D, which is pivoted and swings upon pin *c*, and has a slotted slide-bar, C, loosely attached to it by a pin, *a*, so that D can be made to retain any required position by screwing up the screw *a'*.

Curved bar E is for giving an arm-hole line, and for changing the width at the shoulders, and the positions of its upper end can be varied, as circumstances may require, by moving it in the slot in D, and at the same time the relative position of its lower end is preserved by its being permitted to slide freely by means of slot *b'* on screw *c'* in slide F.

The distance that border-piece B^1 should be placed from body A, when set for cutting, is determined by the size of the person for whom the shirt cut by it is intended. If shoulder-line E be set at a given angle, and border-piece B^1 be moved to give the required width of body, it (B^1) will carry with it, as it moves out or in, the lower end of curved bar E, and thus automatically give the desired size to the arm-hole, proportionate to the width or size of the shirt. Further, by means of the slide F and its connections with curved bar E through slot *b'* and screw *c'*, I am able to adjust for an exceptionally-large arm-hole by dropping slide F lower down, and with it the lower end of bar E.

I adjust for length of body by separating border-pieces B^1 B^2 at or near slide H, so that the lower portion may be moved away from body A, and held there by slides and screws.

What I claim as my invention is—

In an adjustable shirt-pattern, the swinging shoulder-line bar D, the curved bar E, the slide F, and border-pieces B^1 B^2, in combination with the body A, substantially as and for the purpose set forth.

HENRY DYER.

Attest:
GIDEON WELLS,
N. A. LEONARD.