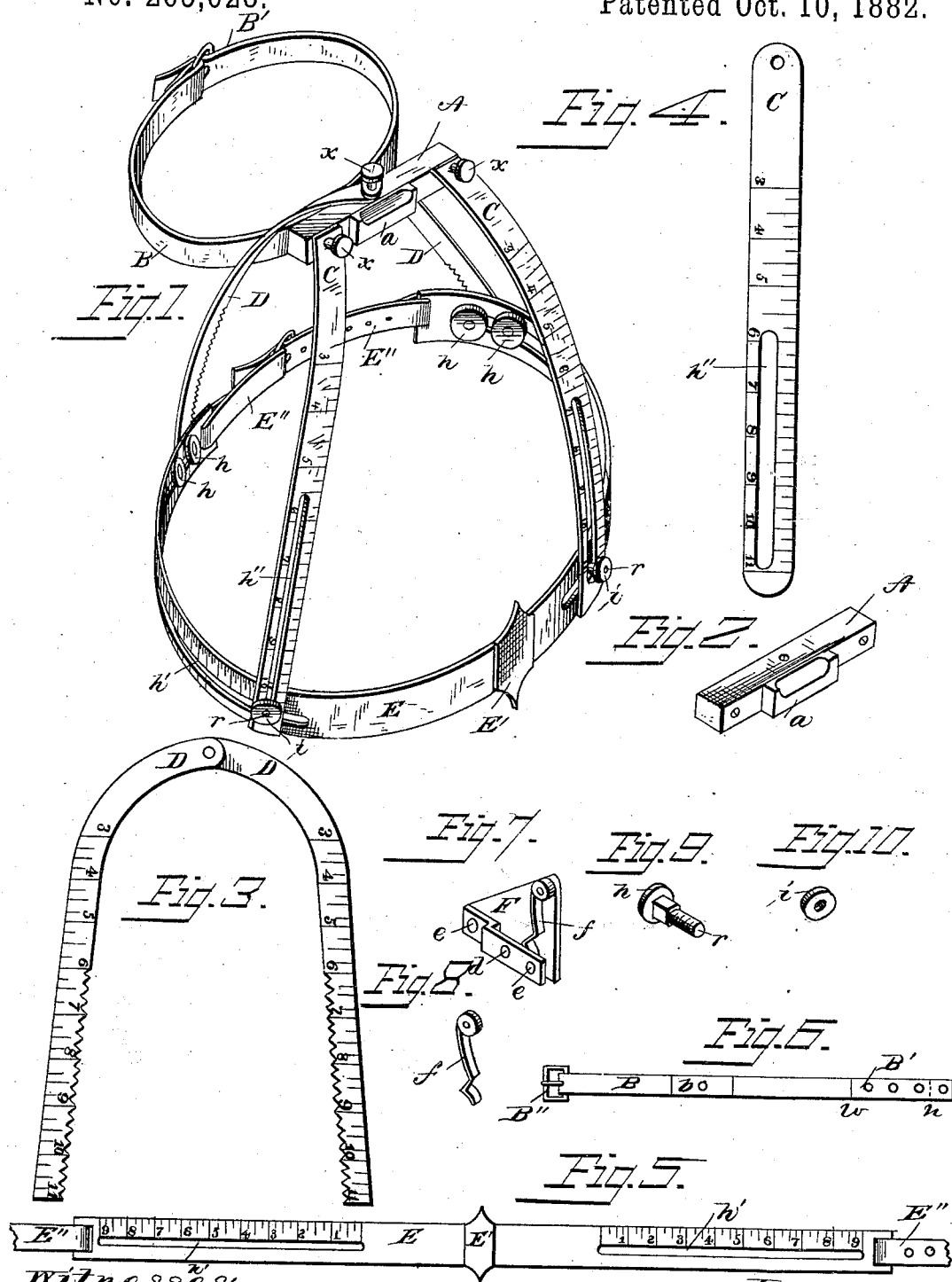


(No Model.)

J. H. PARKHILL.
TAILOR'S MEASURE.

No. 265,628.

Patented Oct. 10, 1882.



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UNITED STATES PATENT OFFICE.

JOSEPH H. PARKHILL, OF MOUNT PLEASANT, IOWA.

TAILOR'S MEASURE.

SPECIFICATION forming part of Letters Patent No. 265,628, dated October 10, 1882.

Application filed June 27, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH H. PARKHILL, a citizen of the United States, residing at Mount Pleasant, in the county of Henry and State of Iowa, have invented a new and useful Tailor's and Dressmaker's Detective and Partial Measuring Device, of which the following is a specification.

My invention relates to a device which may be applied to the human chest in such a manner that its adjustments will accurately fit any form of the human chest about the shoulders and breast, and when once adjusted will detect any change of position that may be made by the person being measured during the process of measurement, and at the same time give accurate measurement of certain parts within its limits which otherwise is difficult to obtain. It is, however, to be used in connection with a tape-line to complete the measurement for a garment.

The object of my invention is to provide a means by which garments may be more perfectly fitted to the varied human forms than by means hitherto known.

My invention consists of the instrument herein specified, and shown by illustrative drawings, of which—

Figure 1 is a perspective of the device embodying my invention. Fig. 2 is a perspective of a yoke to which other parts are connected, showing also a spirit-level connected therewith. Fig. 3 is a flat elevation of a pair of flexible metal straps for fitting and measuring the breast or front part of the chest. Fig. 4 is a flat view of one of a pair of flexible metal straps for fitting and measuring the shoulders or back part of the chest. Fig. 5 is a flexible metal belt, having billets of leather or other pliable material attached to its ends for buckling it around the chest. Fig. 6 is a belt to be attached to the yoke shown at Fig. 2 by a pivot passing through its center and into the forward part of said yoke. It is arranged to bend around the neck and fasten in front with a buckle. Fig. 7 is a perspective of one of a pair of loops used for connecting the lower ends of the straps, Fig. 3, with the belt, Fig. 5. Fig. 8 is a perspective of a spring-pawl, one of which is connected with each of the loops represented by Fig. 7, and are used in connection

with said loops for coupling the lower ends of the straps, Fig. 3, with the chest-belt, Fig. 5. Fig. 9 is a perspective of one of the set-screws used in connecting the loops, Fig. 7, with the said chest-belt, Fig. 5, and also the lower ends of the straps, Fig. 4, with said belt. Fig. 10 is a perspective of one of the taps for said screws.

Similar letters of reference indicate like parts throughout the different figures, of which—

A is the yoke of the device, to which is attached by a pivot-connection, as is above described, the neck-belt B, which belt is made of elastic metal and covered with cloth or other pliable material, having a buckle, B', attached to one of its ends, and a billet, B' at the other. It is preferable, however, to have said billet B' attached to the outside, and far enough back from the end of the metal to allow said metal end to lap inside of the other end when buckled around the neck of small persons, as is indicated by a line, *w*, showing the point of attachment, and a dotted line, *n*, showing the end of said metal. Said belt is also provided with a metal plate, *b*, at its middle, on the outer or convex side, constituting a washer or rubbing plate at its pivot or connection with the yoke A, so that it will readily adjust itself to the neck independent of the action of said yoke. The metal constituting said belt may, however, be made thicker at the middle, and thereby dispense with said additional plate *b*, by also leaving the convex side of the thickened part of said belt uncovered, so that metal surfaces will be together in the adjustments of said parts. The yoke A is also provided with a spirit-level, *a*, for leveling said yoke preparatory to adjusting the other parts of the device.

D are flexible metallic straps, being laterally curved inward at their upper ends, as shown, so as to fit around the back part and sides of the neck, while they extend downward immediately forward of the arms. Their upper ends are connected with the yoke A at its center, on its upper side, by one common pivot, consisting of a set-screw, *x*. Said straps are provided each with a measuring-scale on its face, and a series of notches on their inner or forward edges, which notches extend from their lower ends to half-way up, more or less. Their lower ends are coupled with the chest-belt E, as I will hereinafter describe.

C are flexible metallic straps for fitting and measuring the shoulders or back part of the chest. They are provided with longitudinal slots h'' , which slots extend from near their lower ends to their middle, more or less. Said straps are also each provided with a measuring-scale on their face, and pivoted to the back edge of the yoke A, as shown in Fig. 1, by means of set-screws x . Said straps C are also adjustably coupled at their lower ends with the chest-belt E, as I will hereinafter explain.

E is an elastic or flexible metal belt, having longitudinal slots h' , as shown in Fig. 5, so arranged that when said belt encircles the body said slots will extend around the sides. It is also provided with measuring-scales extending the full length of said slots, as shown, which scales are used for guiding in properly adjusting the instrument to the particular form being measured. Said belt is also provided with straps or billets E'' , made of leather or other pliable material, which are attached to its ends, one of which has a buckle attached to it for buckling said belt around the chest. Said belt is further provided with a pointer, E' , rigidly fastened to its center, which, in adjusting the instrument, is placed at the center of the back, so that the other parts may be properly spaced and arranged.

F are coupling-loops, consisting of two plates each, they being rigidly fastened together at one end, with the outer plate being formed with a set-off sufficient to make an opening between the plates large enough for the ends of the straps D to pass freely down between them. The loose or forward end of the under plate (as when attached to the belt E) is expanded in width sufficient to constitute a foundation or base for the attachment of a spring-pawl, f , as shown in Fig. 7 and as detached in Fig. 8. Said pawls are fastened at their upper ends to the under plates of said loops, so that their lower ends will yield automatically between the two plates of the said loop when operated by the notches on the edges of the straps D as they slide upward or downward through said loops. Said loops F are coupled to the belt E by means of set-screws h , which screws have flat heads and square shanks, as shown at Fig. 9, so as to fit and slide in the slots h' of said belt, they being put through said slots and the holes e in said loops from the inside. They are then tightened, and the loops thereby held to their respective places on said belt by means of taps i , Fig. 10, which taps are for the purpose provided. Said loops are also each provided with a center point or mark, d , as a point from which to measure with a tape-line to other points of the body in completing the measurement for fitting a garment. The screws h , Fig. 9, and taps i , Fig. 10, are also used for connecting the lower ends of the straps C with the belt E, in which position the square shank of said

screws work or slide in the slots of both of said parts in adjusting the instrument to the body, and when adjusted are tightened to hold them in position by means of tightening the taps. The points r of said screws in the last-named position serve as points also from which to take other measurements of the body by means of the tape-line.

The instrument is used by placing it with the yoke A transversely in a level position at the back of the neck and buckling the neck-belt B in front, when the chest-belt E is also buckled in front, having the pointer E' located at the center of the back. The straps C, being fastened or pivoted to the yoke A by means of the screws x , as shown in Fig. 1, are also fastened, as above stated, at their lower ends in proper position to the chest-belt E. The said positions are ascertained by means of the measuring-scales on both the said belt and straps. The adjustment of said parts is accomplished by sliding the screws h in the slots in both the belt and straps, allowing said straps to oscillate laterally on their pivot-connections x with the yoke A, and when thus adjusted are fastened to their respective places by tightening all of the screws h and x . The front straps, D, are also attached to said yoke at its center on top by means of a screw, x , it serving as a pivot also, upon which said straps are adjusted in placing them immediately forward of the arms, respectively. The lower ends of said straps pass downward through the loops F, (said loops having been properly attached, as before described, to said belt E,) and are held or coupled by means of the pawls f , taking into the notches formed in the edge of said straps. The instrument, being thus properly adjusted to the body, will give measurement of parts above the chest-belt E, and will indicate any change of position made by the person being measured by means of a click of one or both of the spring-pawls f in changing notches to conform with the new position taken, when the measurer, being thus warned of said change, can easily detect the particulars of the same by observing the instrument, and can readjust it for further measurement.

Having thus fully described my invention, so as to enable others skilled in the art to which it appertains to understand the same, what I claim as new, and desire to secure by Letters Patent, is—

The combination of the yoke A, having a level, a , the neck-belt B, straps D and C, chest-belt E, provided with the pointer E' , loops F, and set-screws x and h , all constructed and arranged substantially as herein shown, for the purposes specified.

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Witnesses:

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