

(No Model.)

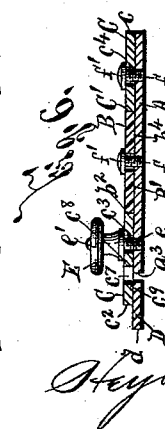
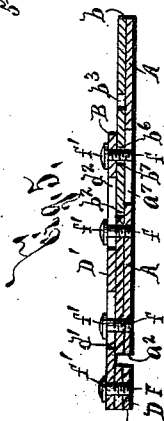
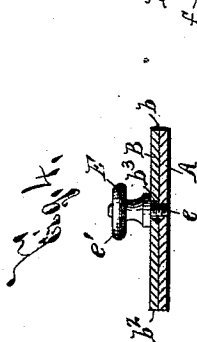
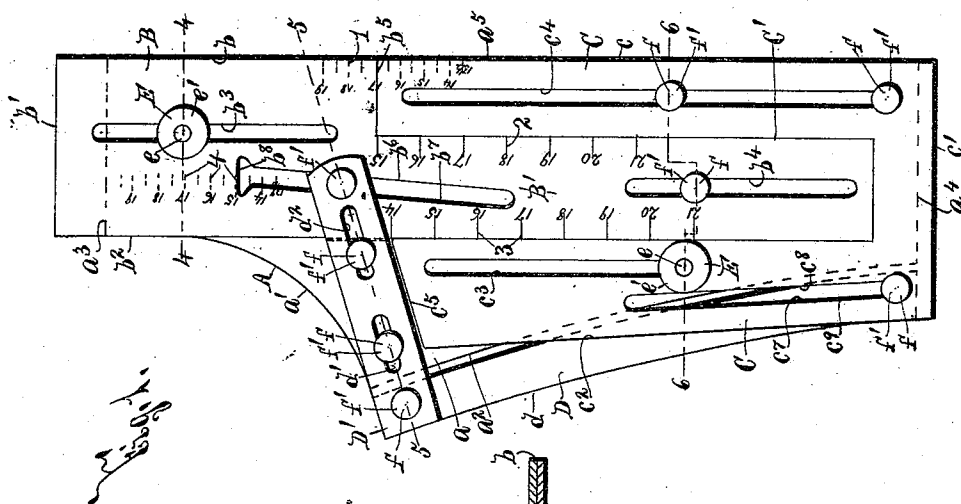
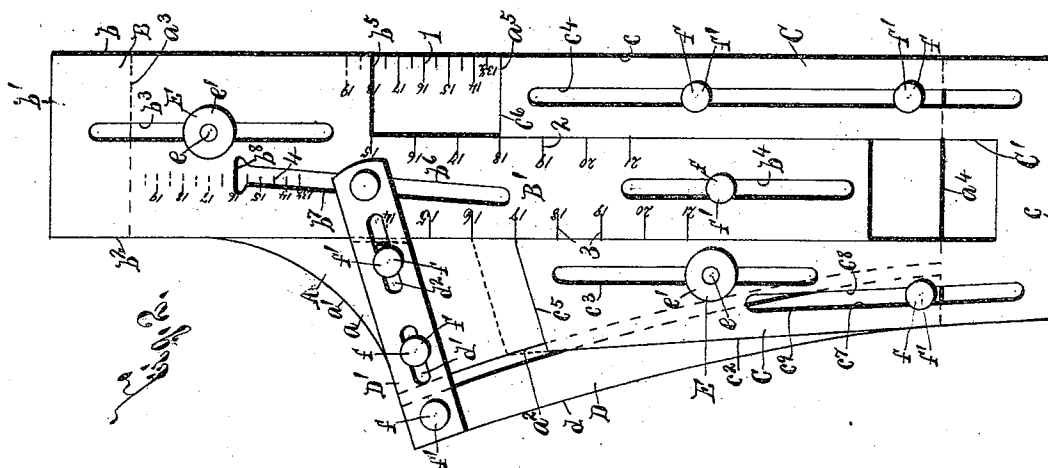
2 Sheets—Sheet 1.

T. J. GOODWIN.

PATTERN FOR DRAFTING SHIRT YOKES.

No. 501,336.

Patented July 11, 1893..



WITNESSES:

L. Schoonck,
M. D. Lewis.

INVENTOR

Terence J. Goodwin

BY

Hey Wilkins & Parsons
ATTORNEYS.

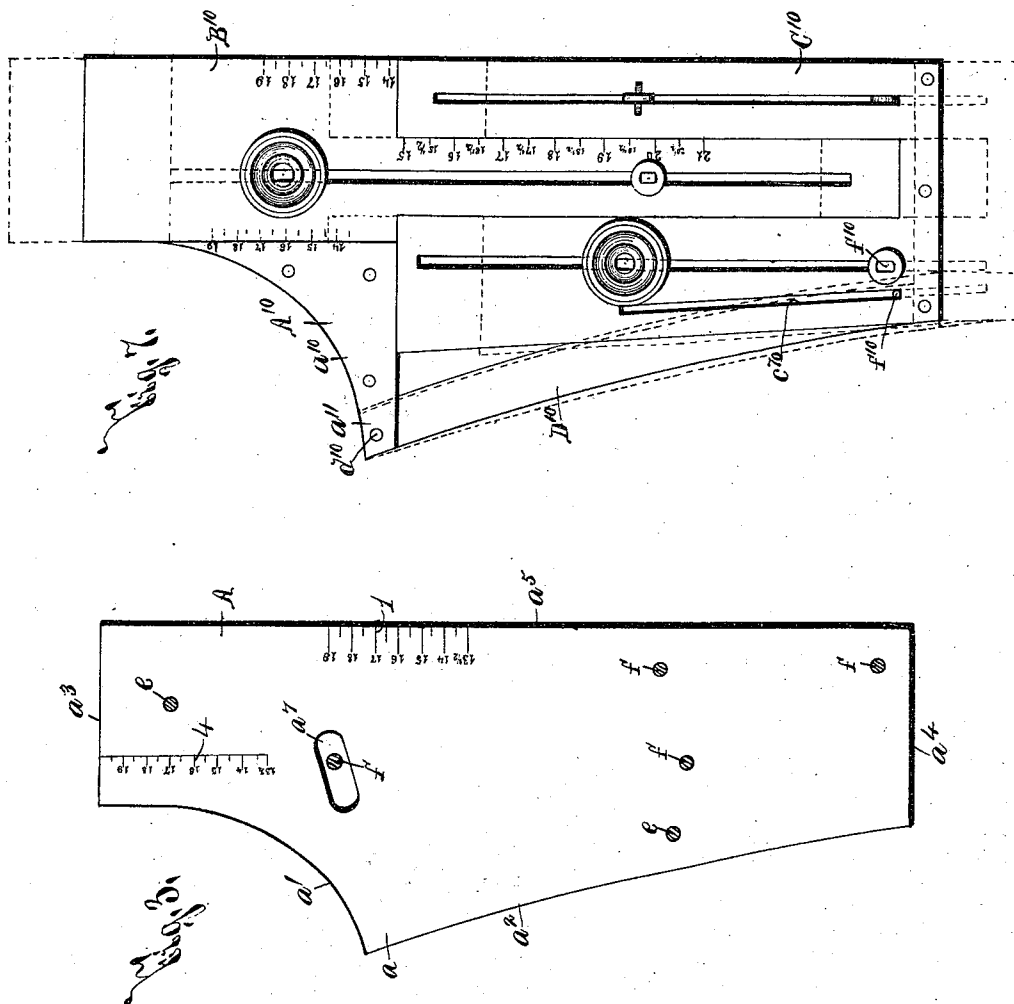
(No Model.)

2 Sheets—Sheet 2.

T. J. GOODWIN.
PATTERN FOR DRAFTING SHIRT YOKES.

No. 501,336.

Patented July 11, 1893.



WITNESSES:

C. Schaeck,

M. D. Lewis.

INVENTOR

Terence J. Goodwin

BY

Stey. W. Williams & Paine

ATTORNEYS

UNITED STATES PATENT OFFICE.

TERENCE J. GOODWIN, OF SYRACUSE, NEW YORK.

PATTERN FOR DRAFTING SHIRT-YOKES.

SPECIFICATION forming part of Letters Patent No. 501,336, dated July 11, 1893.

Application filed February 13, 1893. Serial No. 462,100. (No model.)

To all whom it may concern:

Be it known that I, TERENCE J. GOODWIN, of Syracuse, in the county of Onondaga, in the State of New York, have invented new and useful Improvements in Shirt-Patterns, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

My invention relates to improvements in shirt patterns for drafting the yoke pieces of shirts, and has for its object the production of a simple, practical, and effective device consisting of adjustable sections or plates, whereby a well fitting yoke piece for a custom made shirt can be quickly and easily drafted and then afterward cut by an operator possessing no more knowledge of the art of shirt drafting than that required in measuring the individual to be fitted and adjusting the pattern to expose the number thereon corresponding to the ascertained measurements; and to this end it consists, essentially, in a base-plate formed with a projecting arm at the central portion of its upper edge, a neck-regulating plate adjustable lengthwise on the base-plate, and formed with a bottom edge and a right-hand end edge arranged substantially at right angles with each other, and a shoulder regulating plate adjustable lengthwise on the base-plate and formed with a bottom edge and a left-hand end edge extending at substantially right angles with each other.

The invention furthermore consists in a top-plate arranged at the upper edge of the base-plate with one end hinged to the left-hand end of the shoulder regulating plate and the other hinged to the upper end of a bar engaged with an inclined or cam surface on the neck-regulating plate, and in the detail construction and arrangement of the parts, all as hereinafter more particularly described and pointed out in the claims.

In describing this invention, reference is had to the accompanying drawings, forming a part of this specification, in which like letters and figures indicate corresponding parts in all the views.

Figure 1 is a face view of my improved pattern, which is so arranged in the drawings that its normal bottom and top edges are respectively at the right and left hand. Fig. 2 is a similar face view of my improved pattern

representing the same as somewhat expanded. Fig. 3 is an elevation of the base-plate of my invention. Figs. 4, 5, and 6 are transverse sectional views, taken respectively on lines —4—4—, —5—5—, and —6—6—, Fig. 1, and Fig. 7 is an elevation of a slightly modified form of my invention shown by dotted lines as expanded.

As is well known to those skilled in the art it is extremely difficult even for skilled custom shirt cutters to cut a well fitting yoke piece for a shirt. My present invention is designed to reduce to a minimum the skill required in the formation of such yoke pieces, and consists of an adjustable pattern which can be easily adjusted to the required size of neck and shoulder, and enables the operator to draft the yoke piece by merely marking around the edges of the pattern.

My improved pattern consists of a base-plate —A—, a neck-regulating plate —B— adjustable lengthwise on the base-plate —A—, and a shoulder regulating-plate —C— also adjustable lengthwise on the plate —A—. The base-plate —A— is formed at its upper edge with a projecting arm —a— having concave edges —a'—a²— extending respectively to the right and left hand end edges —a³—a⁴— of said plate —A—. The bottom edge —a⁵— of the plate —A— is arranged at substantially a right angle with the end edges —a³—a⁴—, and, as clearly seen at Fig. 3, the right-hand edge —a'— of the projecting arm —a— is of greater concavity than the opposite edge —a²— of said arm.

The neck-regulating plate —B— is formed with bottom and right-hand end edges —b—b'— arranged at substantially right angles with each other, and is of such width that its top edge —b²— is coincident with the top end of the right-hand edge —a³— of the base-plate —A—. The right-hand portion of the plate —B— is formed with a lengthwise slot —b³— disposed in a plane substantially parallel with that of the bottom edge —b— of said plate, and registered with said slot is the shank —e— of a clamp —E— for holding the neck-regulating plate —B— in operative position. One end of the shank —e— is, as best seen at Fig. 4, fixed to the base-plate —A—, and its opposite end is screw-threaded and movable thereon is a clamping nut —e'—, which bears

against the plate —B— and firmly holds the same in its adjusted position.

The left-hand portion of the plate —B— is formed with a projecting tongue —B'—, which normally extends almost to the left-hand end edge —a⁴— of the base-plate —A—, and is provided with a lengthwise slot —b⁴— substantially parallel with the slot —b³— previously described. A suitable lug —f— is registered with the slot —b⁴—, and, as clearly seen at Fig. 6, one end of this lug is rigidly secured to the base-plate —A—, and the other is formed with a shoulder —f'— bearing upon the upper face of the tongue —B'—.

The shank —e— of the clamp —E— and the lug —f— secured to the base-plate —A— serve to guide the plate —B— in its lengthwise movement upon the plate —A—, and, as clearly seen at Figs. 1 and 2, the plate —B— is formed with a shoulder or edge —b⁵—, which is movable along a scale —1—, presently described, as the plate —B— is moved lengthwisely on the base-plate —A—.

The shoulder regulating plate —C— is formed with bottom and left-hand end edges —c—c'— arranged at substantially a right angle with each other, and, as clearly seen in the drawings, the edge —c— is coincident with the plane of the bottom edges —a⁵—b— of the plates —A—B—. The top edge —c²— of the shoulder regulating plate —C— is, however, slightly inclined upwardly from its left-hand end toward its opposite extremity.

The plate —C— is formed with an open groove —C'— for receiving the tongue —B'— of the neck-regulating plate —B—, and is provided on opposite sides of said groove —C'— with slots —c³—c⁴— with which are respectively registered the shank —e— of a clamp —E— similar in construction to the clamp —E—, previously described, and a pair of lugs —f— also similar in construction to the lug —f— previously described. The inner end edge of the plate —C— is separated into two sections —c⁵—c⁶— by the open groove —C'—, and the adjacent ends of these sections are movable along the opposite longitudinal edges of the tongue —B'— of the plate —B—, which are formed with lower and upper scales —2—3— presently described.

—D— is a plate arranged at the upper edge of the left-hand side of the arm —a— of the plate —A— and formed with a concave upper face —d—. The left-hand end of the plate —D— is pivoted or adjustably secured to the upper portion of the corresponding end of the plate —C— by a lug —f— similar to the lug —f— previously described, and the opposite end of said plate is pivoted by a similar lug —f— to a plate or bar —D'— lapping upon the base-plate —A— and the neck-regulating plate —B— and disposed in a plane inclining from the bottom edges of the plates —A—B—C.

The lug —f— at the left-hand end of the plate —D— is movable in an inclined slot —c⁷— formed in the plate —C— in proximity to its upper edge —c²—, and, as the plate

—C— is moved outwardly, as shown at Fig. 2, the lower cam shaped side —c⁸— of the slot —c⁷— engages said lug —f—, and slightly raises the left-hand end of the plate —D—.

As the plate —C— is returned to its normal position the upper cam shaped side —c⁹— of the slot —c⁷— engages the lug —f— and depresses the left-hand end of the plate —D—. The plate —D'— is movable lengthwisely, and is provided with lengthwise slots —d'—d²— in which are registered lugs —f—f— secured to the plate —A— and formed of similar construction to the lugs —f— previously described. At the lower end of the plate —D'— is a similar lug —f—, which is registered with an inclined slot —a⁷— in the plate —A—, and is engaged by a cam face —b⁶— formed partly in the tongue —B'— and partly in the adjacent right-hand portion of the plate —B—. This cam face inclines upwardly from its right-hand end toward its opposite extremity for slightly elevating the upper end of the plate —D'— as the neck-regulating plate —B— is moved outwardly as shown at Fig. 2.

In order that the opposite movement of the neck-regulating plate may retract the plate —D'— to its normal position the plate —B— is formed with a cam face —b⁷— opposite to the cam face —b⁶—, which also engages the lug —f— in the lower end of the plate —D'—. These cam faces —b⁶—b⁷— form preferably opposite sides of an inclined slot formed in the plate —B— and provided with a right-hand end edge —b⁸— disposed in a plane substantially parallel with that of the corresponding end edge —b'— of the plate —B'—. This edge —b⁸— is movable over a scale —4— formed upon the base-plate —A—.

The plate —D— forms an essential feature of my invention, since the width of the yoke piece pattern, is automatically regulated as the neck-regulating plate is moved outwardly, and the curve of the left-hand portion of the upper end of said pattern is automatically varied as the shoulder regulating plate —C— is moved outwardly.

The scale —1— regulates the size of the neck for a shirt having a closed back, and the scale —4— the size of the neck of a shirt having an open back, and, as preferably constructed, both scales are formed upon the base-plate, and consist of similar graduations 13½, 14, &c., to 19 extending from the left-hand ends of said scales toward their opposite ends.

As previously stated the edges —b⁵—b⁸— of the plate —B— are movable along the graduations of the scales —1— and —4—, and, since as is well known to one skilled in the art, it requires a little more cloth for a shirt yoke having an open back, the graduations of the scales —1— and —4— are so arranged that, when any one of the graduations of the scale —4— is exposed at the left-hand side of the edge —b⁸— a graduation of higher number is exposed at the similar side of the edge —b⁵—. The scales —2— and —3— are also of similar construction, being preferably composed of

graduations along the lower and upper edges of the tongue —B'— of the plate —B—, the scale —2— being numbered 15, 16, &c., to 21, and having its right-hand graduation marked —15—, and the scale —3— being numbered —14—15—, &c., to 21, and having its right-hand graduation marked —14—. After the neck-regulating plate is adjusted, as previously described, the shoulder regulating plate —C— is similarly adjusted, and, if the shirt is to have a closed back, the scale —2— is used, and, if an open back, the scale 3. At Fig. 2, my pattern is shown as adjusted for a yoke piece for a shirt having a closed back and requiring an eighteen collar, and an eighteen shoulder and consequently the division —18— of the scale —1— is exposed at the left-hand of the edge —b⁵— of the neck regulating plate —B—, and the similar division —20— of the scale —2— is exposed at the right-hand of the edge —c⁶— of the shoulder regulating plate —C—. It will be noted, however, that the graduation —16— of the scale —4— is exposed at Fig. 2, and that the graduation —17— of the scale —3— is also exposed.

In order to adjust my pattern for the yoke piece of a shirt having an open back and requiring a sixteen neck and a sixteen shoulder it is not necessary to move the plate —B— from its adjusted position at Fig. 2, but the plate —C— must be moved toward the right-hand until the edge —c⁶— is in alignment with the graduation —16— of the scale —3—, as shown by dotted lines at Fig. 2.

At Fig. 7 I have shown a slightly different construction of my pattern, and have by dotted lines illustrated the same as somewhat expanded. The pattern consists of a base-plate —A¹⁰—, a neck-regulating plate —B¹⁰— movable lengthwise on the base plate —A¹⁰—, and the shoulder regulating plate —C¹⁰— also movable lengthwise on the base-plate —A¹⁰—. In this construction the arm —a¹⁰— of the base-plate —A¹⁰— is formed with an extension —a¹¹—, and the right-hand end of the upper plate —D¹⁰— is pivoted at —d¹⁰— to the extension —a¹¹— of the arm —a¹⁰—. The opposite end of said plate —D¹⁰— is formed with a lug —f¹⁰— movable in an inclined slot —c⁷⁰— in the plate —C¹⁰—. This construction of my invention is otherwise identical with the construction illustrated in the preceding figures, with the exception of minor differences in construction of the lugs and clamps for securing the lengthwise adjustable plates —B¹⁰—C¹⁰— to the base-plate —A—.

The operation of my invention will be readily perceived from the foregoing description and upon reference to the drawings, and it will be evident that it substantially obviates the necessity of a custom shirt fitter for forming the yoke pieces of shoulders, and greatly reduces the expense incidental to the manufacture of custom made shirts, and that, if desired, the yoke pieces for ready made shirts

may be similarly drafted by the use of my improved pattern.

The detail construction and arrangement of this pattern may be somewhat varied from that shown and described. Hence I do not herein specifically limit myself to its exact detail construction and arrangement.

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

1. The herein described pattern for the yoke piece of a shirt, the same comprising a base-plate —A— formed with a projecting arm —a— at the central portion of its upper edge, a plate —B— adjustable lengthwise on the base-plate —A— and formed with a bottom edge —b— and a right-hand end edge —b'— arranged at substantially right angles with each other, and the plate —C— adjustable lengthwise on the base-plate —A— and formed with a bottom edge —c—, and a left-hand end edge —c'— extending at substantially right angles with each other, substantially as and for the purpose set forth.

2. The herein described pattern for the yoke piece of a shirt, the same comprising a base-plate —A—, a plate —B— adjustable lengthwise on the base-plate —A— and formed with a bottom edge —b— and a right-hand end edge —b'— arranged at substantially right angles with each other and provided with a tongue —B'— extending lengthwise of the plate —B—, a plate —C— adjustable lengthwise on the base-plate —A— and formed with a bottom edge —c—, a left-hand end edge —c'— extending at substantially right angles with each other, and provided with an open slot —C'— extending inwardly from its right-hand end edge for receiving the tongue —B'—, substantially as and for the purpose specified.

3. The herein described pattern for the yoke piece of a shirt, the same comprising a base-plate —A—, a plate —B— adjustable lengthwise on the base-plate —A— and formed with a bottom edge —b— and a right-hand end edge —b'— arranged at substantially right angles with each other and provided with a tongue B'— extending lengthwise of the plate —B— and with an edge —b⁵—, a plate —C— adjustable lengthwise on the base-plate —A— and formed with a bottom edge —c—, a left-hand end edge —c'— extending at substantially right angles with each other and provided with an open slot —C'— extending inwardly from its right hand end edge for receiving the tongue —B'— and with a right-hand end edge —c⁶—, and scales —1— and —2— formed respectively upon the base-plate —A— and the tongue —B'— along the path of movement of the edges —b⁵—c⁶—, substantially as specified.

4. The herein described pattern for the yoke piece of a shirt, the same comprising a base-plate —A— formed with a lengthwise edge —a⁵—, end edges —a³—a⁴— disposed at sub-

stantially right angles with the edge— a^5 — and provided at its upper edge with an arm — a — having concave sides — a' — a^2 , the side — a' — being of greater concavity than the side — a^2 —, a plate —B— adjustable lengthwise on the base-plate —A— and formed with a bottom edge — b — substantially coincident with said edge — a^5 —, and a right-hand end edge — b' — arranged at substantially right angles with the edge — b — and the plate —C— adjustable lengthwise on the base-plate —A— and formed with a bottom edge — c — substantially coincident with said edge — a^5 —, and a left-hand end edge — c' — extending at substantially right angles with the edge — c —, substantially as described.

5. The herein described pattern for the yoke piece of a shirt, the same comprising the base plate —A— formed with a lengthwise edge — a^5 —, end edges — a^3 — a^4 — disposed at substantially right angles with the edge — a^5 — and provided at its upper edge with an arm — a — having concave sides — a' — a^2 , the sides — a' — being of greater concavity than the sides — a^2 —; a plate —B— adjustable lengthwise on the base-plate —A— and formed with a bottom edge — b — substantially coincident with said edge — a^5 —, a right-hand end edge — b' — arranged at substantially right angles with the edge — b —, a top edge — b^2 — substantially coincident with the upper end of said right-hand end edge — a^3 — of the plate —A—, an edge — b^5 —, a tongue —B'— at the left-hand end of the plate —B— extending lengthwise of said plate, the plate —C— adjustable lengthwise on the base-plate —A— and formed with a bottom edge — c — substantially coincident with said edge — a^5 —, a left-hand end edge — c' — extending at substantially right angles with the edge — c — and an edge — c^5 —, said plate —C— being formed with an open slot —C'— for receiving the tongue —B'—, and scales —1— and —2— formed respectively upon the base-plate —A— and the tongue —B'— along the path of movement of the edges — b^5 — c^5 —, substantially as and for the purpose described.

6. The herein described pattern for the yoke piece of a shirt, the same comprising a base-plate —A—, a plate —B— adjustable lengthwise on the base-plate —A— and formed with a bottom edge — b — and a right-hand end edge — b' — arranged at substantially right angles with each other and provided with edges — b^5 — b^8 — and with a lengthwise tongue —B'—, a plate —C— adjustable lengthwise on the base-plate —A— and formed with a bottom edge — c — and a left-hand end edge — c' — extending at substantially right angles with each other and provided with right-hand end edges — c^5 — c^6 —, and with an open slot —C'— for receiving the tongue —B'—, scales —1— and —2— provided respectively upon the plate —A— and the tongue —B'— in the paths of movement of the edges — b^5 — c^6 —, and scales —3— and —4— provided respectively upon the base-plate —A— and the

tongue —B'— in the paths of movement of the edges — b^6 — c^6 — said scales being constructed, substantially as described, whereby the edges — b^5 — b^8 — register simultaneously with different graduations upon the scales —1— and —4— and the edges — c^5 — c^5 — with different graduations on the scales —2— and —3—, substantially as and for the purpose specified.

7. The herein described pattern for the yoke piece of a shirt, the same comprising a base-plate —A—, a plate —B— adjustable lengthwise on the base-plate —A— and formed with a bottom edge — b — and a right-hand end edge — b' — arranged at substantially right angles with each other, and the plate —C— adjustable lengthwise on the base-plate —A— and formed with a bottom edge — c —, a left-hand end edge — c' — extending at substantially right angles with each other, a plate —D— having a concave upper edge arranged in front of the upper edge of the plate —A—, and having its right-hand end movably supported on the plate —A— and its opposite end adjustably connected to the plate —C—, substantially as and for the purpose set forth.

8. The herein described pattern for the yoke piece of a shirt, the same comprising a base-plate —A— formed with a projecting arm — a — at the central portion of its upper edge, a plate —B— adjustable lengthwise on the base-plate —A— and formed with a bottom edge — b — and a right-hand end edge — b' — arranged at substantially right angles with each other, and the plate —C— adjustable lengthwise on the base-plate —A— and formed with a bottom edge — c —, a left-hand end edge — c' — extending at substantially right angles with each other, and having an inclined or cam edge — c^5 —, and a plate —D— having its right-hand end supported upon the arm — a — of the base-plate and its left-hand end provided with a lug bearing against the edge — c^5 —, substantially as and for the purpose specified.

9. The herein described pattern for the yoke piece of a shirt, the same comprising a base-plate —A—, a plate —B— adjustable lengthwise on the base-plate —A— and formed with a bottom edge — b — and a right-hand end edge — b' — arranged at substantially right angles with each other and provided with a tongue —B'— extending lengthwise of the plate —B—, a plate —C— adjustable lengthwise on the base-plate —A— and formed with a bottom edge — c —, a left-hand end edge — c' — extending at substantially right angles with each other and provided with an open slot —C'— extending inwardly from its right-hand end edge for receiving the tongue —B'— and with an inclined or cam edge — c^7 —, and a plate —D— having a concave upper edge arranged in front of the upper edge of the plate —A— and having its right-hand end movably supported on the plate —A— and its opposite end adjustably con-

nected to the plate —C—, substantially as set forth.

10. The herein described pattern for the yoke-piece of a shirt, the same comprising a
 5 base-plate —A—, having a bottom edge —a⁵—
 a plate —B— adjustable lengthwise on the
 base-plate —A— and formed with a bottom
 edge —b— and right-hand end edge —b'—
 10 arranged at substantially right angles with
 each other, and the plate —C— adjustable
 lengthwise on the base-plate —A— and
 formed with a bottom edge —c—, a left-hand
 end edge —c'— extending at substantially
 15 right angles with each other, a plate —D'—
 lengthwisely movable upon the plate —A—
 and arranged upon said plate —A— in a plane
 inclined from that of the edge —a⁵— of said
 plate, and a plate —D— having one end
 20 hinged to the top end of the plate —D'— and
 the other adjustably connected to the plate
 —C—, substantially as and for the purpose
 specified.

11. The herein described pattern for the
 25 yoke-piece of a shirt, the same comprising a
 base-plate, a plate —B— adjustable lengthwise
 on the plate —A— and formed with a bottom
 edge —b—, and a right-hand end edge —b'—

arranged at substantially right angles with
 each other and provided with an inclined or
 cam edge —b⁶—, a plate —C— adjustable 30
 lengthwise on the base-plate —A— and formed
 with a bottom edge —c—, and a left-hand end
 edge —c'— extending at substantially right
 angles with each other and provided with an
 inclined or cam edge —c⁷—, a plate —D'— 35
 adjustable lengthwisely on the plate —A—
 and provided with a lug engaging the inclined
 or cam face —b⁶— of the plate —B—, and a
 plate —D— having its right-hand end hinged
 to the upper end of the plate —D'— and its 40
 opposite end provided with a lug movable
 along the inclined or cam edge —c⁷— of the
 plate —C—, substantially as and for the pur-
 pose described.

In testimony whereof I have hereunto 45
 signed my name, in the presence of two at-
 testing witnesses, at Syracuse, in the county
 of Onondaga, in the State of New York, this
 27th day of January, 1893.

TERENCE J. GOODWIN.

Witnesses:

CLARK H. NORTON,
 M. BAXTER.