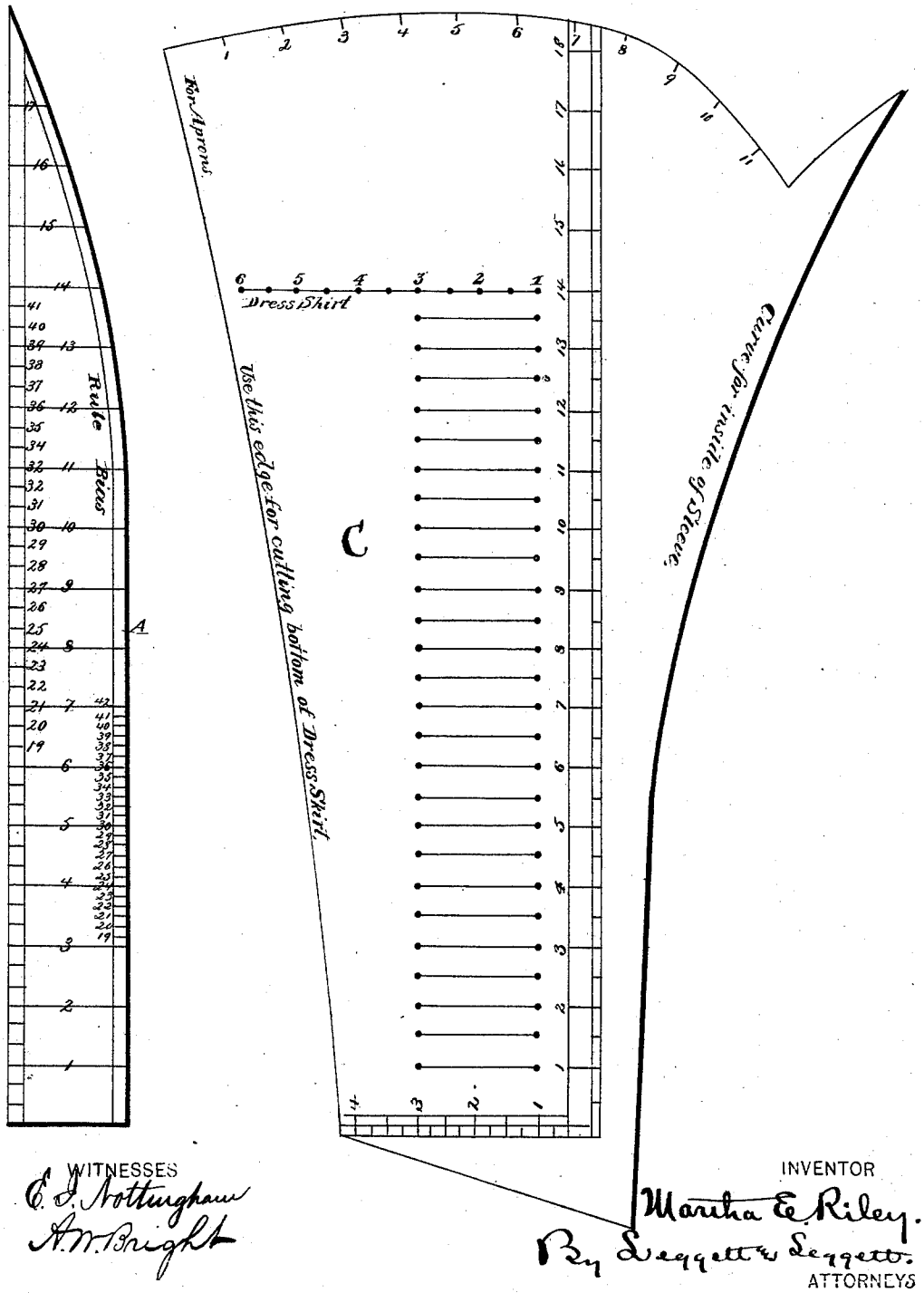
2 Sheets—Sheet 1.

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Dress-Makers' Chart.

No. 223,543. **Patented Jan. 13, 1880.**



WITNESSES

C. D. Nottingham

A. M. Bright

INVENTOR

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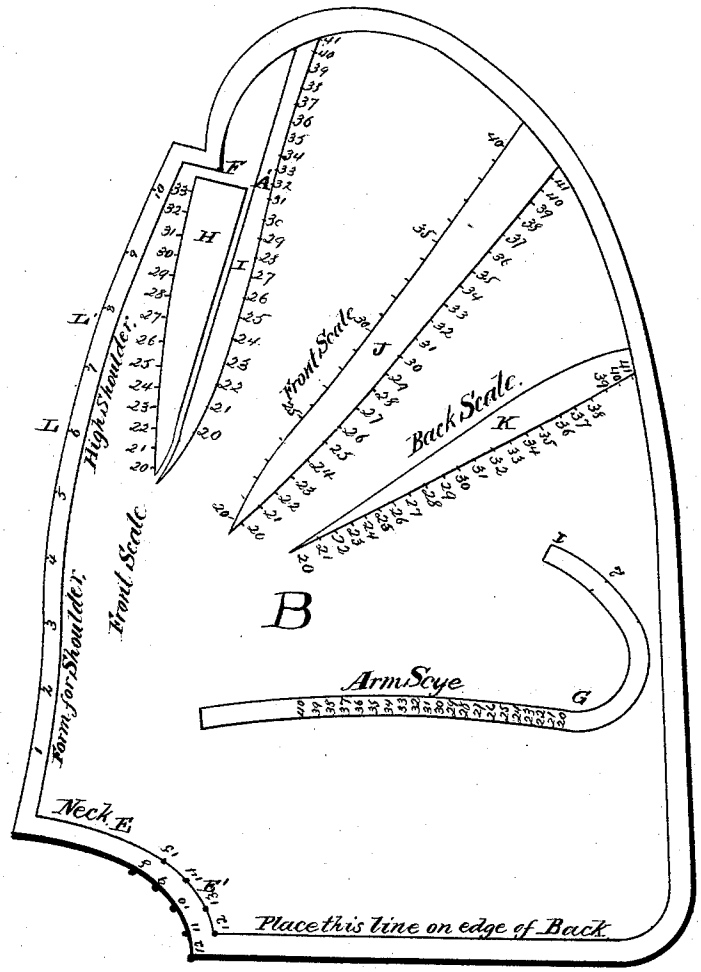
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UNITED STATES PATENT OFFICE.

MARTHA E. RILEY, OF HARRISBURG, OREGON.

DRESS-MAKER'S CHART.

SPECIFICATION forming part of Letters Patent No. 223,543, dated January 13, 1880.

Application filed May 8, 1879.

To all whom it may concern:

Be it known that I, MARTHA E. RILEY, of Harrisburg, in the county of Linn and State of Oregon, have invented certain new and useful Improvements in Patterns for Cutting Garments; 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My invention relates to patterns for cutting garments by, and is designed to provide improved means whereby a great variety of garments can be accurately cut and shaped by persons having no especial training in such matters.

In the accompanying drawings, A, B, and C represent the different forms of chart used.

A represents the bias-rule, which is of general oblong form, having one end tapering and both longitudinal edges graduated. This chart or rule is designed to be used in getting all lengths, widths, darts, seams, collars, &c.

B shows the chart for procuring neck, shoulder, back, and arm measurements, and for cutting and fitting cloaks, yokes, half-fitting basques, and a variety of ladies' garments, and for cutting coats, vests, &c., in gentlemen's apparel. This chart is provided with a number of scales and graduations placed at suitable points on its surface. E E′, the curved neck-scale; F, the shoulder-notch; G, the arm-scye, and H I J K the upper front and back and lower front and back shoulder scales, being in general oblong form, with one enlarged end, and having the curve for inside of sleeve formed at the side of said end.

C shows the skirt-scale, the office of which said skirt-scale C is to get the proper curves necessary in the cutting of ladies' aprons, dress-skirts, sleeves, bias-trimmings, and scallops, and for gentlemen's shirts and underwear. This chart is provided with several graduated scales for the several uses, as described.

These charts may be made of any desired material, but preferably of book-binders' board, with the scales and graduations printed thereon, and bound with brass, or of thin sheet-zinc, with the scales and graduations clearly stamped in the metal.

The mode of applying my cutting and fitting charts is as follows, taking as an example, in order that the manner of their use may be made clear, the following five measures—chest-measure, thirty-two inches, neck-measure, fourteen inches, shoulder-measure, seven inches, under-arm measure, eight inches, and waist-measure, twenty-four inches: First draft off three-quarters of an inch for lap; place the body-piece B with its straight edge or line drawn, and dot at A′, the shoulder-point opposite the point 32 on the upper and lower front scale, and draw a line seven inches long, which is in the example the shoulder-measure, by the shoulder form or curve, (represented in the drawings by the line L L′;) add now the required width for the outside seam, and place a dot at the point 14 on the curved neck-scale, keeping A′ on the first dot at the point of neck; now reverse the rule back until the edge is even with the dot; then draw a circle by the neck-rule.

For the arm-scye, place the number 32 on the arm-scye scale opposite the two dots on the front-scale; dot at 2 on the scale, and, placing the notch F on this dot, draft around to length of shoulder for arm-scye; now place the bias-rule A straight across under arm-scye and dot at lower side on the front edge; drop one and three-quarters inch, with point half across arm-scye; dot at 3½ and 6½, using 13 on bias-rule A, for curving out and shaping darts; now place the bias-rule A with half of its width across the dot, and drop the rule down, and draw a line across from the point of the rule; take out half an inch in the center of the front, and place the first dart one and two-thirds inch from the edge. This first dart will be two inches in width, and is called the "front-dart." Between this and the back-dart, which is half an inch broader, a space of three-quarters of an inch should be left.

To locate the top of the darts, place the bias-rule A straight across under the arm, dot on the lower side, of which drop one and three-quarter inch, and place the point of the rule half across the arm-scye and dot at 3½ and 6½.

For the waist-measure, place the bias-rule A

straight down under arm-scye eight inches for length of waist; then place straight across from dart and drop half of width down, and take out half an inch, and so on; dot at the number corresponding with the waist-measure, which is 24, and add to the darts one inch for seam, and, placing the point 13 on the bias-rule, curve out and draw a line to the bottom of the waist.

To get the measurements for the back of the garment, draft off one inch for the seam, and place the inside line (indicated at the line for the back) at the point of the neck, 32, on the upper-back scale, and draw a line by the shoulder-form, and one-half an inch longer than the front; also, allowance should be made for the seam running into the shoulder; now place S on the chart C at the point of the shoulder, and draw a line to the dot on the lower scale; add the seam and measure from under the back of the arm-scye straight down eight and one-third inches, and, placing the arm-scye straight across, raise one-third of an inch and take out three-quarters of an inch; then place the bias-rule A at the edge, and dot at 24 on the back-scale, add one inch for the seam, and place the point of the rule curving in at the back of the arm-scye, and draw a line from dot to dot.

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

In a chart for cutting garments by, the combination of the patterns A B C, graduated, and of the configuration substantially described and shown.

In testimony that I claim the foregoing I have hereunto set my hand this 10th day of April, 1879.

MARTHA E. RILEY.

Witnesses:
DAMON SMITH,
HENRY MCCARTNEY.