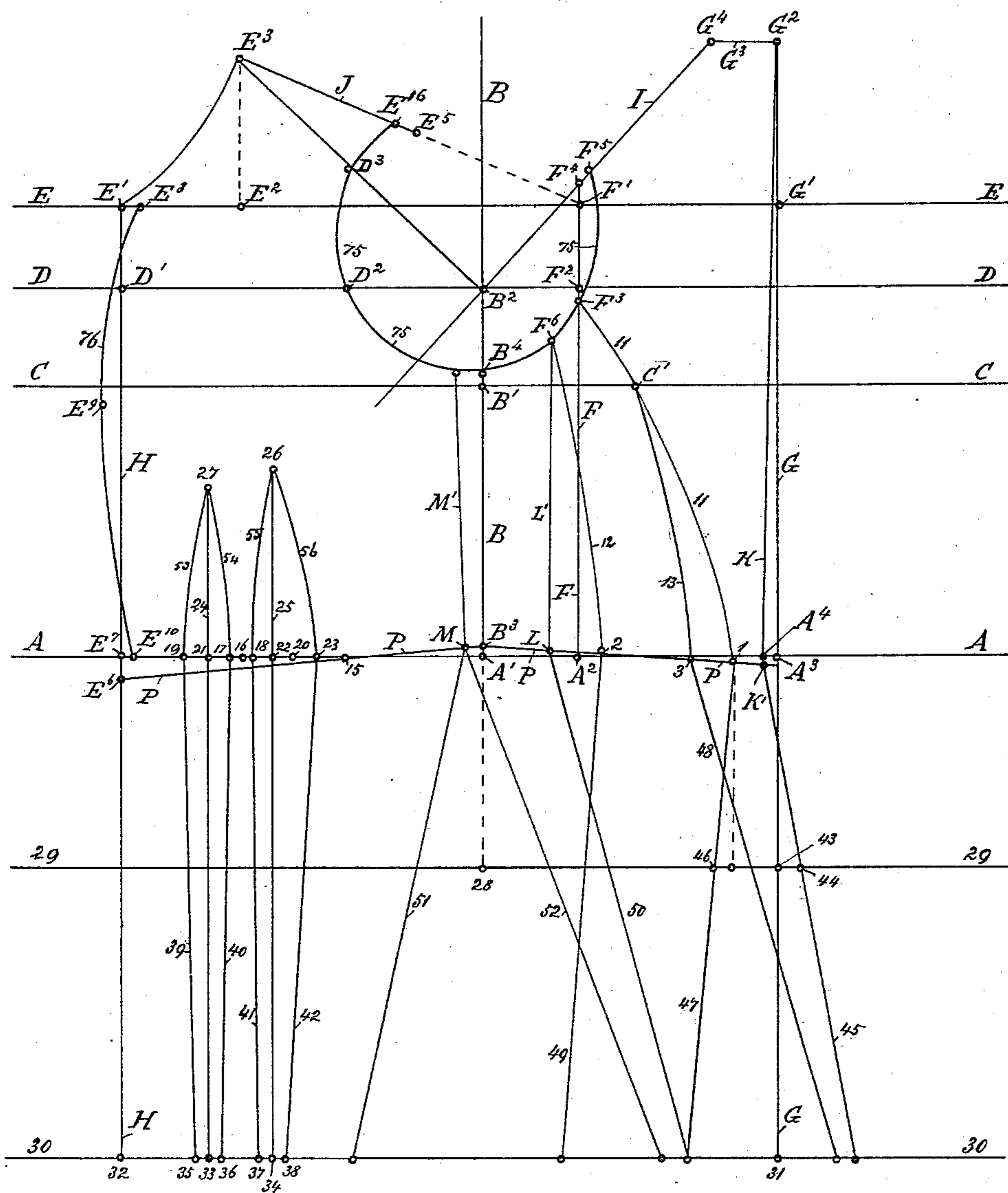


(No Model.)

F. FELS & D. SIMON.
DRESS CHART.

No. 379,384.

Patented Mar. 13, 1888.



WITNESSES

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FAJWEL FELS AND DOROTA SIMON, OF PHILADELPHIA, PENNSYLVANIA.

DRESS-CHART.

SPECIFICATION forming part of Letters Patent No. 379,384, dated March 13, 1888.

Application filed November 18, 1887. Serial No. 255,526. (No model.)

To all whom it may concern:

Be it known that we, FAJWEL FELS and DOROTA SIMON, of Philadelphia, Pennsylvania, have invented a new and Improved Chart for Ladies' Garments, of which the following is a specification.

This invention relates to an improved chart for aiding scholars and others in cutting out ladies' garments, such as wraps, dolmans, basques, &c.

The invention consists in the various features of improvement more fully pointed out in the claims.

The accompanying drawing represents a face view of our improved chart.

In laying out our improved chart we make use of several auxiliary lines, which greatly facilitate the construction of the chart.

To produce the chart we proceed in the following manner, it being of course understood that the chart varies in proportion with different sizes: Draw horizontal line A and intersect it at center, A', by vertical line B. Measure from A' upward on line B the length of under arm to point B', through which draw horizontal line C. Lay off five thirty-seconds of the arm-size and measure it on line B from point B' upward to point B², through which draw horizontal line D. Draw another horizontal line, E, above line D, and at the same distance from said line as line C. Take the distance between lines C D. Lay it off on line A to the right of point A' to point A², through which draw upward the vertical line F until it intersects line E at F'. Take half of the back bust-measure. Lay it off on line A to the right of point A² to point A³, through which draw vertical line G the entire measure of the back length to point G². This line intersects line E at point G'. Take half of bust-measure. Add quarter of an inch. Lay it off on line E to the left of point G' to point E', through which draw vertical line H the entire length of front measure. From point G² lay off to left horizontally one-eighth of an inch less than one-half of neck-measure, thus obtaining line G³ and point G⁴. Connect the points G⁴ and B² by line I, which is extended downward half an inch below line C. Measure from point E' on line E to right one-fourth of an inch less than one-fourth of neck-meas-

ure to point E², from which measure upward one-fourth of an inch more than one fourth of neck-measure to point E³. Connect points E³ E' by a curve, which constitutes the front neck curve. Connect points F' (intersection of lines E F) with point E³. Lay off on such line J from point E³ the length of shoulder-measure E³ E¹⁶ and one inch to point E⁵. Lay off on line A from point A³ to the left half an inch to point A⁴, which connect with point G², thus obtaining line K. From the point E' measure down the length of front to point E⁶. For every half-inch which point E⁶ is beneath point E⁷ (intersection of lines A H) lay off on line B from point A' upward one-eighth of an inch to point B³. Connect points E⁶ B³, which is the front half of the waist-line P. Measure lady's back from point G² down line K beyond point A⁴ to point K'. Connect points B³ K', which is the rear half of the waist-line P. Measure one and one half inch to left of point K' on line P to point 1. Lay off on line P three-fourths of an inch to the right of line F to point 2. Two inches to the right of point 2 on line P mark point 3. Measure on line F from point F² (intersection of lines F D) down half an inch to point F³. Connect points 1 F³ by a curve, 11. This curve intersects line C at point C'. Connect points C' and 3 by a curve, 13. Lay off on line J to the left of point E⁵ three-fourths of an inch to point E¹⁶. Connect points B² E³. Lay off on this line from point E³ the length of shoulder-measure, thus obtaining point D³. Lay off on line D to right of point D' (intersection of lines D H) half of chest-measure to point D². Lay off distance between point B³ and line A on line B above point B' to point B⁴. Lay off from point F⁴ (intersection of lines F I) on line I to the right one-fourth of an inch to point F⁵. Connect points E¹⁶, D³, D², B⁴, F³, and F⁵ by a curve which constitutes the arm-hole curve 75. Take half of the distance between points F⁵ and F³. Lay it off from point F³ on arm-curve to point F⁶. Connect points F⁶ 2 by a curve, 12. Lay off on line A from point E' to the right half of chest-measure and mark point 15. Lay off half the distance between points 15 E' to left of point 15 to point 16. Bisect distance between points 16 E' to obtain point 19. Bisect distance between points 16 15 to obtain point 20. Mark points

17 18 to left and right of point 16 about quarter of an inch. Bisect distance 16 19 to obtain point 21. Bisect distance 18 20 to obtain point 22. Mark point 23 one-half an inch to right of point 20. Draw vertical lines 24 25 through points 21 22 and measure off on these lines from line A upward the length of the darts, the line 25 being one-half inch longer than line 24, to obtain points 26 27. Connect, by curves 53, 54, 55, and 56, the points 27 19 27 17 26 18 26 23 26 to obtain curves of darts. Add the distances K' 1 1 2 17 18 E' 19, and lay off the sum on line P from 23 to the right in addition to half the waist-measure to obtain point L. Take half the distance between points L 23, subtract half an inch, and lay this off on line P to the left of point L to obtain point M. Draw nearly-upright line M' up from point M to arm-curve 75. Draw line L' from point L up to point F⁶. Mark point E⁸ on line E one-quarter of an inch to right of point E'. Mark point E⁹ half an inch below line C and half an inch to the left of line H. Mark point E¹⁰ on line A one-fourth of an inch to right of E'. Connect points E⁸ E⁹ E¹⁰ by a curve, 76, which is the bust-curve. Measure down from B³ on line B the height of hip to point 28. Draw horizontal line 29 through such point. This is the hip-line. Extend the lines G H and lines 24 25 downward to the horizontal base-line 30, which they intersect at the points 31 32 33 34. Lay off quarter of an inch to right and left of points 33 34 on line 30 to obtain points 35 36 37 38. Connect these points, respectively, with points 19, 17, 18, and 23 by lines 39 40 41 42. Lay off on line 29 half an inch to right of point 43 (intersection of lines G 29) to obtain point 44. Draw line 45 from K' through 44 and extend it downward to line 30. Mark point 46 on line 29 one inch to the left of perpendicular line passing through point 1. Draw line 47 through points 46 and 1 and extend it to the base-line. Draw line 48 from point 3 down to line 30, sloping an

inch to right on line 29. Draw line from point 2 to line 30, sloping one inch to the left on line 29. Draw line 50 from point L down to line 30, sloping one and three-fourths inch to the right on line 29. Draw line 51 from point M down to line 30, sloping one and three-fourths inch to the left on line 29. Draw line 52 from point M down to line 30, sloping one and three-fourths inch to the right on line 29.

What we claim is—

1. A chart for making patterns for garments, having thereon horizontal line A, vertical bisecting line B, vertical front line, H, vertical back line, G, slanting line P, connecting points on lines H G below line A with point on vertical line B above line A, arm-hole curve 75, and curved lines 11 12, connecting said arm-hole curve with slanting line P, substantially as shown and described.

2. A chart for making patterns for garments, having thereon horizontal line A, front line, H, back line, G, slanting line P, connecting points of lines H G below line A with point on vertical line B above line A, and line K, connecting top of line G with point A⁴, situated on line A half an inch from intersection of lines G A, substantially as shown and described.

3. A chart for making patterns for garments, having thereon horizontal line A, slanting line P, arm-hole curve 75, curved lines 11 13 12, and straight line L', connecting arm-hole curve with line P, base-line 30, intersecting straight lines 48 47 49 50, and horizontal line 29, said horizontal line being located the height of hip-measure from the highest point, B³, on line P, the lines 48 47 49 sloping an inch on line 29, and the line 50 sloping one and three-fourths inch on line 29, substantially as shown and described.

FAJWEL FELS.
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Witnesses:

F. v. BRIESEN,
ALFRED JONGHMANS.