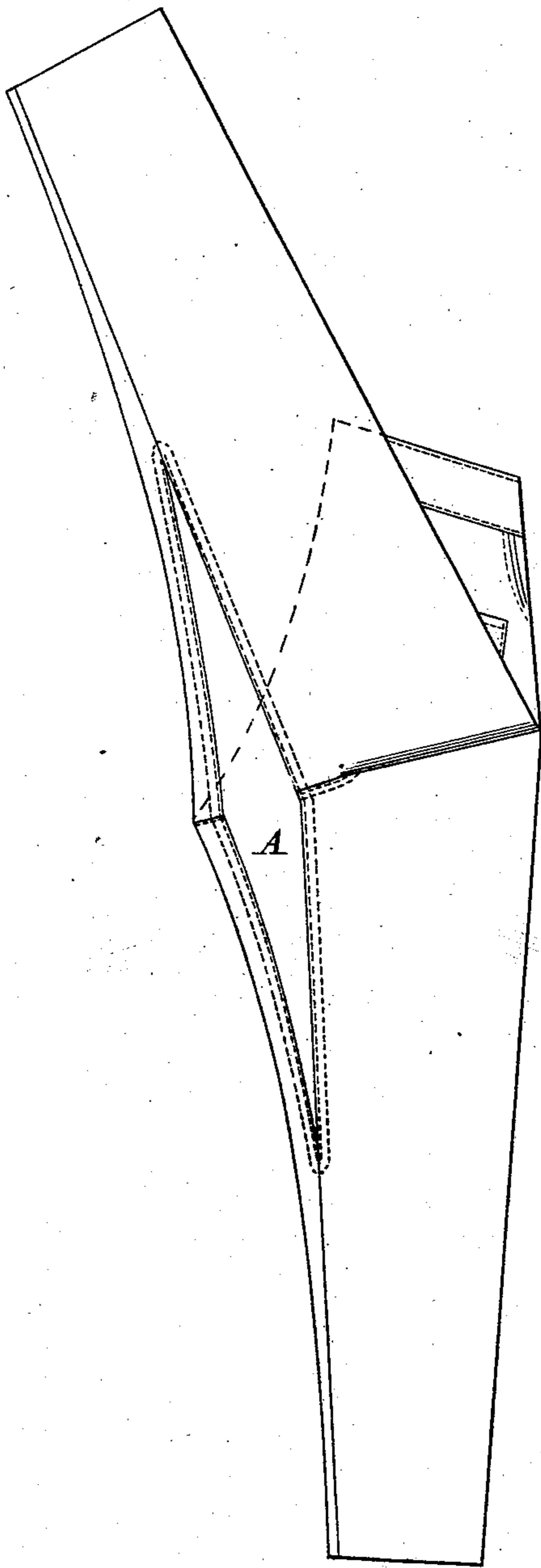


G. P. EVANS.
Overalls.

No. 236,012.

Patented Dec. 28, 1880.



WITNESSES:

Chas. M. Higgins.
John B. Gavin.

INVENTOR:

George P. Evans
by J. H. Wiles, Son
attys

UNITED STATES PATENT OFFICE.

GEORGE P. EVANS, OF FORT WAYNE, INDIANA.

OVERALLS.

SPECIFICATION forming part of Letters Patent No. 236,012, dated December 28, 1880.

Application filed May 12, 1879.

To all whom it may concern:

Be it known that I, GEORGE P. EVANS, of Fort Wayne, Allen county, State of Indiana, have invented certain new and useful Improvements in Overalls, of which the following is a specification.

It is well known that such garments as overalls, which are drawn on over the other clothes, and are thus subjected to unusual friction and consequent strain, require greater strength and are more liable to rip in certain places than is the case with garments which are drawn on near the skin. This strain acts mainly in line with the legs, tending to separate the two at the crotch, on which the strain mostly concentrates, and which, as overalls are usually made, also happens to be the weakest point, since the crotch is usually formed of several pieces, and the seams securing the pieces are, in most all cases, arranged at right angles, or nearly so, to the lines of strain, which is, of course, the weakest position, and thus renders the crotch weak and liable to rip.

In the annexed drawing is illustrated my improvement, which aims to obviate these defects, the figure representing the overalls with the legs spread, exposing the crotch.

My improvement consists, as illustrated, in constructing the overalls with a continuous or seamless crotch-piece, A, of an elongated form, tapering slightly and uniformly toward each end, and inserted in the crotch with its long axis in line with the legs, and extending about one-third the distance down each leg toward the knee, the said elongated crotch-piece being inserted exactly in the crotch between the fly and the seat and centrally between the legs, as shown. The edges of the crotch-piece are sewed to the edges of the leg-pieces where the leg-pieces lap or meet, as shown, and preferably a double parallel seam secures the edge of the crotch-piece to the legs, as illustrated. By this formation and arrangement of the crotch-piece it will be readily seen that not only no seam is formed at the central or crotch part of the garment, but that the axis of the seamless crotch-piece A is brought in line with the direction of the legs, and the marginal seams securing the crotch-piece is accordingly brought in line with the lines of strain; hence all the stitches of these seams act conjointly to resist this strain, thus re-enforcing each

other and imparting great strength to what has heretofore been a weak point. In addition to the advantage of strength, this construction renders the garment more easy to wear, and is also neater and cheaper to manufacture.

Another advantage I derive from my construction is as follows: In cutting out the front and back portions of overalls or pantaloons in the ordinary manner, the projecting parts of the front and back portions, near the fly and seat, are, in order to save cloth, cut separately from remnants of the material, and afterward sewed to the back and front parts and to each other, thus requiring eight seams; and one of the objects of my invention is to form these separate crotch-pieces of a single piece, which is sewed to the back and front parts, thus dispensing with four seams and rendering the construction simpler, stronger, and cheaper.

I do not wish to be understood as laying any claim merely to a seamless crotch-piece inserted in the crotch of overalls or similar garments without reference to the form thereof and its arrangement with reference to the legs and the lines of strain, as I am aware that a seamless crotch-piece has heretofore been inserted in drawers, as shown in Letters Patent granted to Irving A. Howe for improvements in drawers, dated August 8, 1871, No. 117,885; and I therefore lay no claim to such invention, in which the crotch-piece is of a contracted irregular form, having its longest axis arranged at right angles to the axis of the legs, with its attaching-seams at right angles to the lines of strain, and hence in the position of the least strength, and therefore unfit for the purposes of my invention.

What I claim as my invention is—

Overalls provided with a crotch-piece, A, of an elongated diamond shape, made in one piece and inserted centrally in the crotch between the fly and seat, and arranged centrally between the legs, with its long axis substantially in line with and extending down each leg, and its attaching-seams formed in line with the legs and lines of strain, substantially as described and shown, and for the purpose set forth.

GEORGE P. EVANS.

Witnesses:

HENRY J. MILLER,
UNAS SHOFF.