

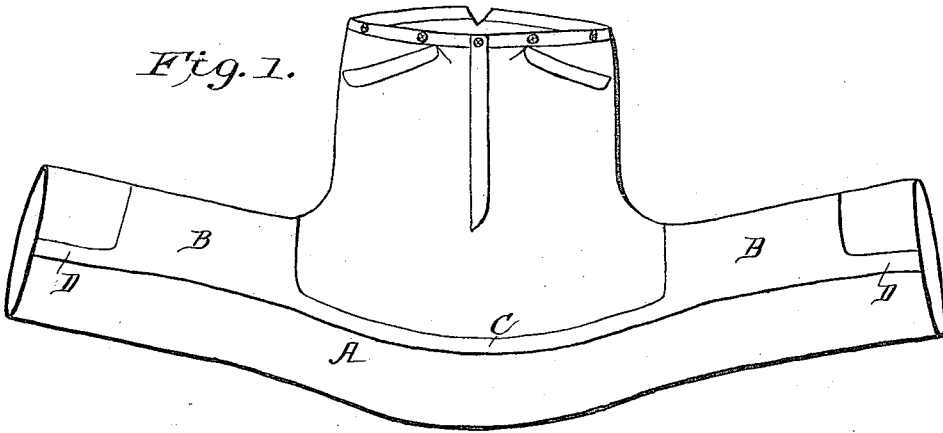
(No Model.)

I. M. APPEL.  
OVERALLS.

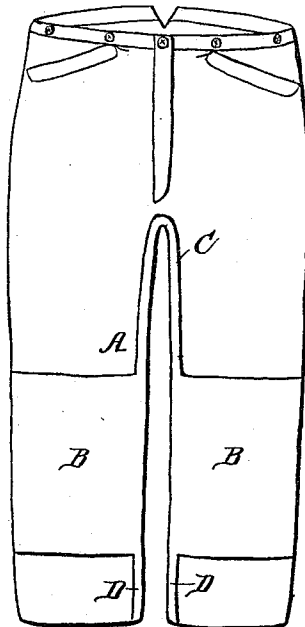
No. 440,989.

Patented Nov. 18, 1890.

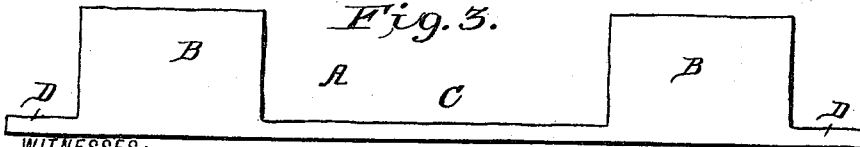
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



WITNESSES:

*Fred G. Dieterich*  
*P. B. Turpin.*

INVENTOR:

*Isaac M. Appel.*

BY

*Wm. L.*  
ATTORNEYS

# UNITED STATES PATENT OFFICE.

ISAAC M. APPEL, OF BALTIMORE, MARYLAND.

## OVERALLS.

SPECIFICATION forming part of Letters Patent No. 440,989, dated November 18, 1890.

Application filed September 27, 1890. Serial No. 366,398. (No model.)

*To all whom it may concern:*

Be it known that I, ISAAC M. APPEL, of the city of Baltimore, in the State of Maryland, have invented a new and useful Improvement in Overalls, of which the following is a specification.

My invention is an improvement in braces and re-enforces for overalls, seeking to provide a combined brace and re-enforce in one piece, which can be readily cut, easily applied, and will when applied efficiently serve its purposes.

The invention consists in certain novel constructions and combinations of parts, as will be hereinafter more fully described, and pointed out in the claim.

In the drawings, Figure 1 is a front view of a pair of overalls provided with my improvements, the legs being spread wide apart. Fig. 2 is a similar view, the legs being in the usual position; and Fig. 3 is a detail view of the combined re-enforce and brace.

My improvement consists in a single piece A, usually cut from the fabric of which the overalls proper are made. This single piece is cut to form the knee re-enforce B, the upper inseam and crotch brace-strip C, and the lower inseam brace-strip D extended below the re-enforces. The knee re-enforces B extend laterally from the strips, and are made sufficiently large to extend across the knee portion of the overall-leg, and to project above and below such knee portion sufficiently far to properly protect the knee portion of the leg, and in use are firmly stitched around their edges to the overall-legs. The upper inseam and crotch brace-strip C extends up from the knee portions along the upper portion of the inseam and across the crotch, being securely stitched in place and operating to strongly brace the inseam, so that it cannot be torn apart. In fact, when the seam-brace is properly applied and secured, the fabric will part before the inseam will give way. This inseam-brace is integral throughout and forms a connecting portion between the knee re-enforces, and by extending it in a single piece across the crotch it serves to brace the crotch-seam, and also to avoid the bungling seams which would result if the strips C were formed in two pieces seamed at their meeting ends into the crotch-seam. The lower inseam brace-strips D extend down

from the re-enforces B to the bottoms of the leg portions of the overalls, and being stitched at their edges to the legs on opposite sides of the seam prevent any ripping of the inseam from the trouser-leg bottom.

It will be seen that the combined brace and re-enforce when properly sewed on serves in the first place to cover and protect the crotch on which there is always a great strain and wear in overalls. It protects the knee portion, and extends down to the bottom of the legs, protecting the entire inseam and prevents it from tearing open.

It will be understood that the combined knee re-enforces can be cut in large quantities and applied to the overalls, the excess in the size of knee re-enforces B being sufficient to compensate for the variation in the lengths of the standard sizes of overalls, as will be readily understood. Manifestly the lower inseam brace-strips D may be omitted without departing from some of the broad features of my invention; but I prefer to employ such lower brace-strips, as shown, and before described.

It will be understood that the braces may be made with the strips C of different lengths to fit the different sizes of overalls.

Having thus described my invention, what I claim as new is—

As an improved article of manufacture, an overall having its leg portions provided with knee re-enforce pieces secured over the knee portions, and extending a short distance above and below the same, and with a strip extending from the upper inner corner of one knee-piece up along the inseam of the leg across the crotch and down along the inseam of the other leg to the upper inner corner of the other knee-piece, such knee-pieces and strip being integral, and the strip being secured upon the outer side of the overalls without being included in the inseam, whereby the bungling of such seam is avoided, and whereby the re-enforces and brace-strip when worn may be conveniently removed without affecting the overalls, substantially as set forth.

ISAAC M. APPEL.

Witnesses:

M. H. STRASBURGER,  
W. H. TIBBALS,  
WILLIAM H. BERRY.