

(No Model.)

E. H. LIEBERTHAL.
SUSPENDERS.

No. 464,882.

Patented Dec. 8, 1891.

Fig. 1.

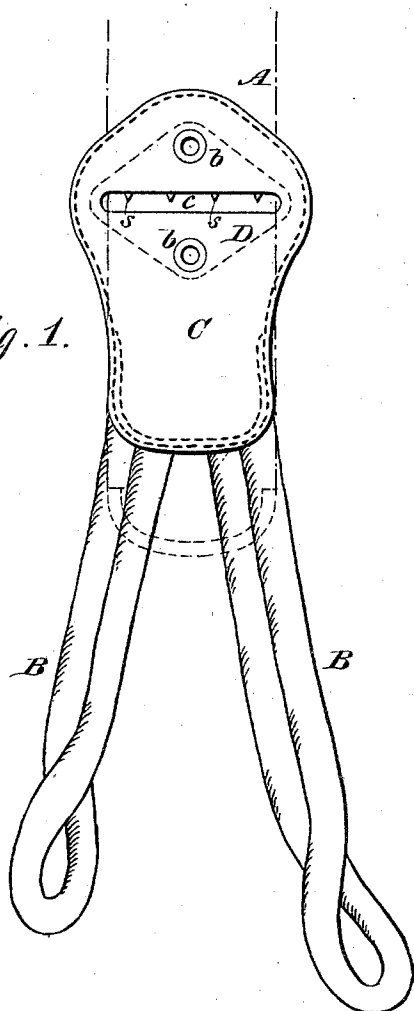


Fig. 2.

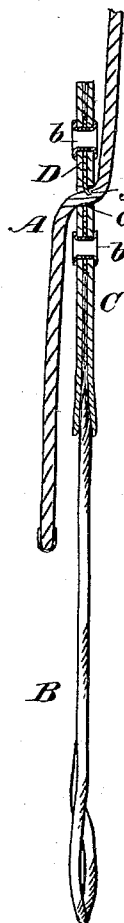
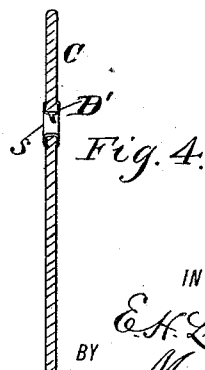
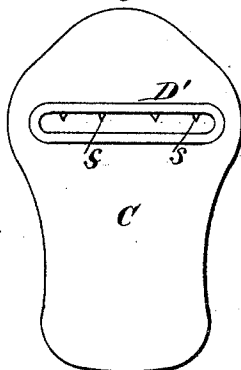


Fig. 3.



WITNESSES:

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ELIAS H. LIEBERTHAL, OF BAY CITY, MICHIGAN.

SUSPENDERS.

SPECIFICATION forming part of Letters Patent No. 464,882, dated December 8, 1891.

Application filed July 20, 1891. Serial No. 400,080. (No model.)

To all whom it may concern:

Be it known that I, ELIAS H. LIEBERTHAL, of Bay City, in the county of Bay and State of Michigan, have invented a new and useful Improvement in Suspenders, of which the following is a full, clear, and exact description.

This invention relates more particularly to men's suspenders, and more especially to the means provided for connecting and adjusting up or down the bifurcated end straps on the main web of the suspender.

The invention has for its prime object the dispensing with all buckles or projecting metal parts on either or both sides of the suspender liable to catch on the shirt or vest where the adjustable bifurcated end pieces connect with the main web.

The leading feature of the invention consists in a slotted metal plate or clamp concealed within or made to lie substantially flush with the leather or junction piece of the bifurcated end straps, the slotted portion of said plate, through which the main web passes, being provided with teeth or pointed projections adapted to catch into, but preferably not to penetrate through, the main web, whereby while every provision is made for lengthening or shortening the suspender with facility and dispatch and a secure hold is established between the bifurcated end pieces and the main web the integrity of the non-protruding character of the slotted plate or clamp which connects said end pieces and main web is preserved, substantially as hereinafter more fully described, and more particularly pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 represents a face view of the front bifurcated end piece or portion of the one-half of a pair of suspenders with my invention applied; Fig. 2, a longitudinal section of the same with a portion of the main web in engagement; Fig. 3, a face view of the junction-piece of the bifurcated end pieces or straps, with a modified construction or attachment of the slotted toothed clamping-plate applied; and Fig. 4, a longitudinal section of the same.

Referring in the first instance to Figs. 1

and 2 of the drawings, A indicates the main web of the suspender in part, and B B the bifurcated end straps or braids, which are secured direct without ring attachment—as by stitching, for instance—to the leather junction-piece C, used to hold them together. The suspender carries no buckle for adjustment of the bifurcated ends up or down the web A to lengthen or shorten the suspender, but the junction-piece C is made of two thicknesses of leather or material, with a clamping metal plate D of any desired shape embedded within it between its two thicknesses and secured by metal eyelets *b* or otherwise. Said clamp or plate, which thus virtually becomes a fixed integral part of the leather or junction piece C, or, in other words, is substantially flush with it, is constructed with a slot *c* through it, lying across the path, as it were, of the web A, and the upper marginal wall of said slot is provided with a series (two or more) of downwardly-protruding small slightly-bent teeth *s*, adapted to penetrate the web or catch onto it without projecting through the web. The slot *c* faces a corresponding slot made in the junction-piece C and admits the web through it from back to front, so that the junction-piece C, with its attached bifurcated ends B B, is free to be slid up or down the web to lengthen or shorten the suspender, and by an easy manipulation of it and pull or strain put upon the end pieces B B the junction-piece is secured by the teeth *s* catching in the web to its adjusted position thereon, and by opposite similar slight manipulation may as readily and quickly be detached from engagement by the teeth when required to make a fresh sliding adjustment. Thus a very simple and cheap fastening not liable to wear, break, or get out of order for adjustably connecting the end pieces with the web is provided, and the same does not objectionably protrude on either side of the web to catch into, injure, or tear the shirt or vest of the wearer.

In Figs. 3 and 4 the slotted and toothed metal plate or clamp is constructed simply in the form of a metal lining D' to the marginal walls of the slot in the leather or junction piece C, and is flanged or bent all around to grip, and it may be embedded in said piece C on opposite sides thereof, thus virtually being

flush with the piece C and forming a non-protruding fastening, as in the other figures of the drawings previously described.

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

The flexible junction-piece C, formed of
superposed layers of leather or suitable flexi-
10 ble fabric and having a transverse slot there-
through, the metal plate D, secured between
said layers and having a transverse slot regis-

tering with the slot in said junction-piece, the
upper wall of the slot in the plate being pro-
vided with downward-projecting teeth, and
the suspender-ends B B, secured between the 15
lower ends of said layers, substantially as set
forth.

ELIAS H. LIEBERTHAL.

Witnesses:

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