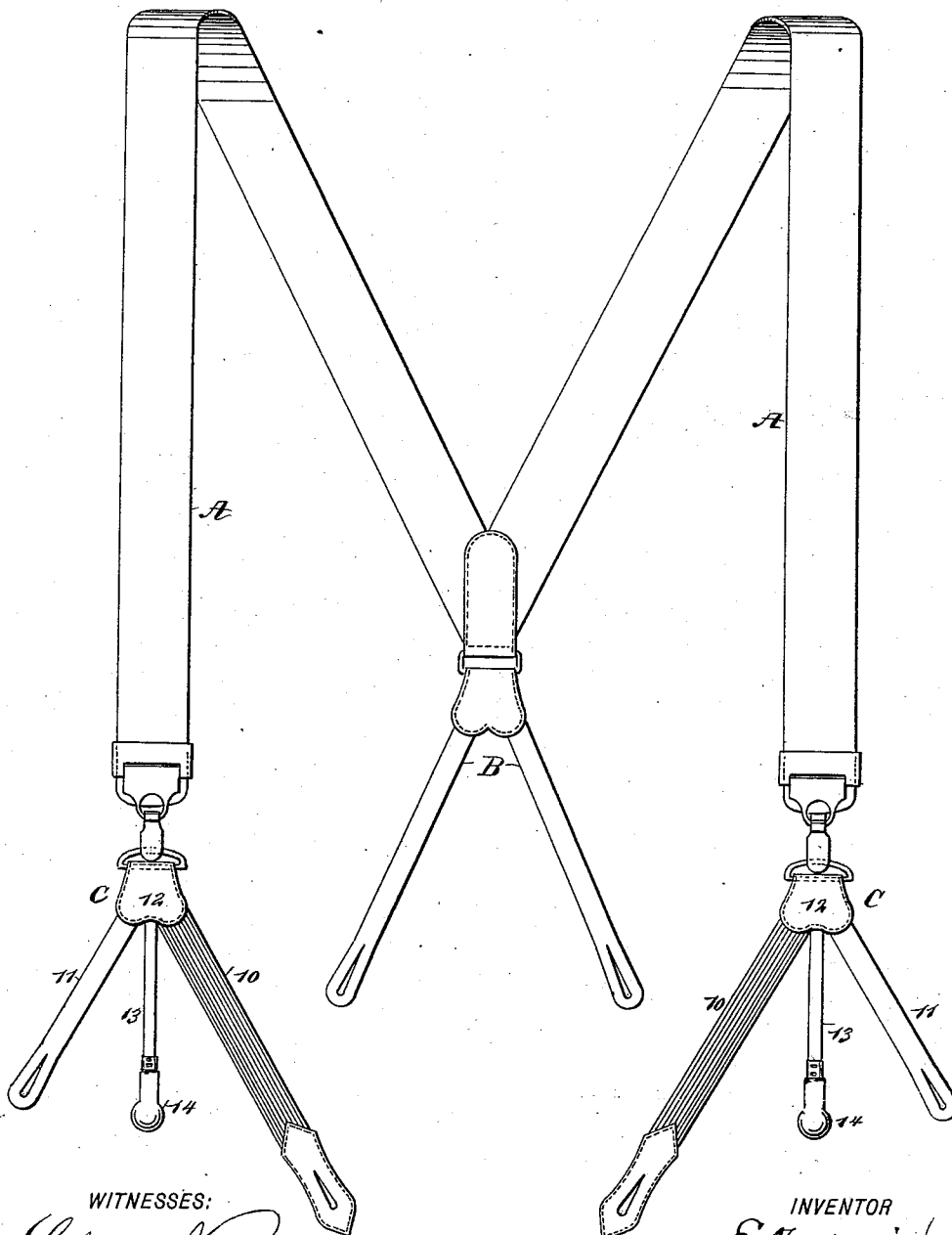


(No Model.)

E. F. MERWIN.
SUSPENDERS.

No. 534,444.

Patented Feb. 19, 1895.



WITNESSES:

Chas. Nida.
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UNITED STATES PATENT OFFICE.

EDWIN F. MERWIN, OF NEW YORK, N. Y.

SUSPENDERS.

SPECIFICATION forming part of Letters Patent No. 534,444, dated February 19, 1895.

Application filed December 27, 1892. Serial No. 456,504. (No model.)

To all whom it may concern:

Be it known that I, EDWIN F. MERWIN, of New York city, in the county and State of New York, have invented a new and useful
5 Improvement in Suspenders, of which the following is a full, clear, and exact description.

My invention relates to an improvement in suspenders, and especially relates to the construction of the forward ends thereof.

10 The object of the invention is to so construct the forward ends of suspenders of the strap type that the trousers shall be supported in front entirely, or almost entirely by the side or pivotal buttons, by means of a firm
15 unyielding end for attachment thereto, and an auxiliary end for attachment to the forward button; to be of such elastic material as will offer no resistance to muscular motion, but afford sufficient tension to prevent the
20 suspenders from falling off the shoulders. It is superior to the well known roll or sliding end, inasmuch as it never diverts the support of the trousers from the side or pivotal buttons, and it obtains the same results as the
25 Greely and other cord suspenders without moving of buttons, or other complex arrangements.

30 The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claim.

Reference is to be had to the accompanying drawing, forming a part of this specification, in which the figure represents a plan view of
35 a pair of suspenders having the improvement applied thereto.

40 The body A of the suspenders is of the strap type and may be elastic or non-elastic, as desired, while the rear end portion of the suspender B, or that adapted to receive the rear buttons of a pair of trousers may be made in the usual manner, the invention relating particularly to the construction of the forward ends. Each forward end C, is constructed in
45 like manner, and comprises two attaching members 10 and 11, extending in opposite directions from a common binding tab 12, plate or other fastening device located at their upper ends and adapted to hold the members in
50 firm engagement with each other. The inner

member 10, is made longer than the outer one 11, and the longer member 10, is constructed of an elastic material, which may be round or flat while the short member 11, is non-elastic; yet both members may be, and preferably are pliable. Whenever it is desired a
55 cord 13, may be projected downward between the two members 10 and 11, the cord being adapted to carry a supporting clip 14, of any known construction.

60 When a pair of suspenders constructed as above described is worn, a strap suspender will be rendered as comfortable and easy to the wearer as a suspender of the rolling type; and whatever discomfort may be experienced
65 in the rolling type of suspender by reason of the harness extending around the sides of the person is obviated in the improved strap suspender, since only the usual ends are employed.

70 The forward button of trousers is much farther removed from the upper central portion of the front ends of the suspenders when the suspenders are worn, than is the top of the outer member from the rear front button; and it has heretofore been customary in strap
75 suspenders to cause the members of the forward ends to be made of equal strength. Therefore, in the movements of the human body much more tension has been brought to
80 bear upon the front buttons than upon the side or pivotal buttons, and consequently causing much unnecessary and unpleasant pressure across the abdomen.

85 By causing the inner members of the front ends to be made of an elastic material and the rear members non-elastic, the body of the suspenders is held much more comfortably upon the shoulders and proper tension is exerted upon both of the front buttons, since the distance between the buttons and the upper central portion of the members of the front ends is equalized by the difference in the strength of these members; and the elasticity of the inner members of the front ends permits the
90 body to be carried backward or in direction of either side without exerting undue tension upon the inner front buttons, as these buttons sustain practically all of the strain or tension when the body is moved as above set forth.

100

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

5 In suspenders, the combination of two tabs
10 and 11, the binding tab 12 for uniting the
tabs, tab 11 being of firm material sufficient
to support the trousers, tab 10 formed of elas-

tic material and being of greater length than
tab 11, as shown and described.

EDWIN F. MERWIN.

Witnesses:

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EDGAR TATE.