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F. W. SHIPMAN

1,852,030

SUSPENDER

Filed Oct. 27, 1930

Fig. 1.

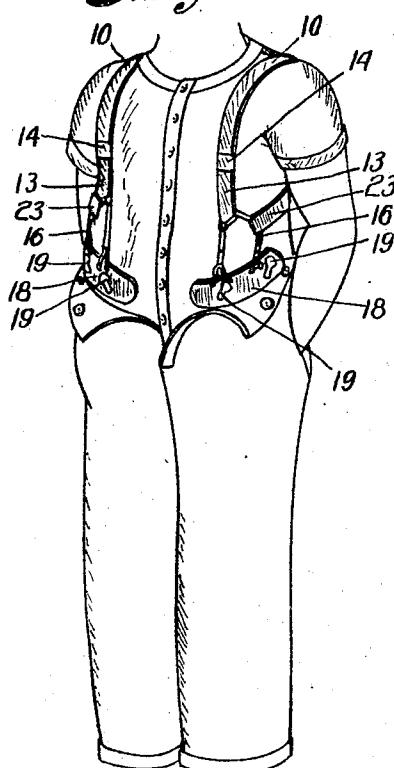


Fig. 2.

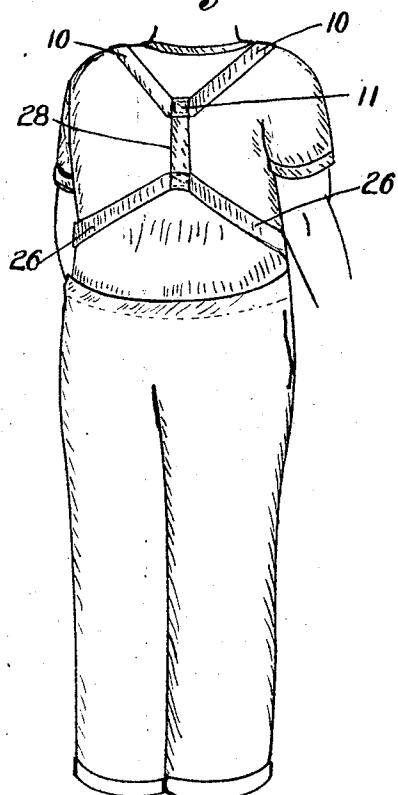
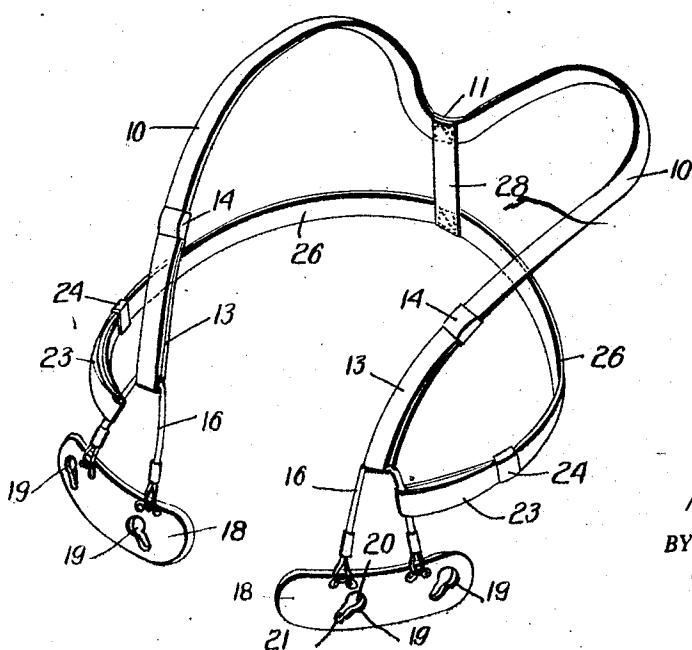


Fig. 3.



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SUSPENDER

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This invention relates to suspenders, and particularly to suspenders which are also adapted to act as an abdominal support.

The objects of this invention are to make 5 a suspender which may be worn under the shirt and will hold the trousers snug to the body in front, and also act as an abdominal support.

These and other objects are accomplished 10 by means of the following construction, in which:

Fig. 1 shows a front view of the suspender in place, with the front of the trousers turned back to show the position of the attaching 15 plates.

Fig. 2 is a rear view showing the suspenders in place.

Fig. 3 is a perspective view showing the complete suspender.

Referring to Fig. 3, a pair of flexible straps 10 are adapted to fit over a man's shoulder and hang parallel in front, and are joined together in back as indicated at 11. The ends of the straps adapted to hang in front of the 25 body are formed with a loop indicated at 13 and a slidable adjuster 14. Flexible cords or loop members 16 pass through the loops 13 and have forwardly and rearwardly extending diverging branch portions connected in 30 any convenient manner at spaced points to a pair of arcuate plates 18.

The plates 18 may be of any shape but are preferably approximately rectangular, having round ends, and are metallic so as to form 35 an ample support for the abdomen. The plates 18 have four button fasteners 19 therein of like construction. The description of one, therefore, will suffice for the four. The button fastener is formed of a large annular hole 20 and a slot 21 running downwardly and towards the center of the body. A plate is located horizontally on edge to engage a set of buttons on the trousers with the set of holes, and is elongated and has substantial width 40 to extend arcuately from the buttons a substantial distance forwardly over the abdomen toward the center vertical line of the front of the abdomen for supporting the abdomen.

Adjustably attached to the loops 16, by 45 means of loops 23 and adjustable slides 24, are

a pair of belts 26. The belts run approximately horizontally around the body and are attached to the straps 10 through a short vertical connector 28 running from the point 11, the point 11 being the meeting point of the straps 10, to its intersection with the belts 26.

In use, the suspenders are placed over the shoulders and a shirt put on over them. One hand is inserted beneath the shirt and each button on the trousers is inserted in an annular hole 20 of the adjacent metal plate and drawn down into the notch 21. The annular hole 20 is of necessity made large enough to accommodate the button when covered with the thickness of shirtng material. When the buttons are fastened and the front of the shirt buttoned, the metal plates will be drawn by the belts 26 and held by the trousers, giving a close fit to the front of the trousers and also pressing into the abdomen forming a support therefor.

It will be noted that with this construction the trousers are supported from the shoulders and drawn tight across the front, so that no sagging of the front of the trousers is possible as occurs with usual suspenders of this type.

It is realized that this device is susceptible to various changes in modifications coming well within the scope of one skilled in the art, and it is not therefore, desired to limit this invention to the precise form of structure shown herein, but only by the scope of the appended claims.

What I claim and desire to secure by Letters Patent is:

1. In a device of the character described, a strap having loops in opposite ends, a second strap having loops in opposite ends, a third strap having ends connected to the mid points of said straps, flexible loop members slidable in the end loops of said straps, and plates connected to the free ends of said loop members having keyhole apertures.

2. In a device of the character described, a supporting element including a vertically extending back strap adapted to be mounted on the back of the wearer between the shoulders thereof, a shoulder strap connected to

the upper end of said back strap having branches to extend over the shoulders of the wearer and free ends provided with cord-receiving loops, a retaining strap connected 5 to the lower end of said vertical strap having free ends adapted to extend forwardly substantially horizontally beneath the arms of the wearer and provided with loops, flexible cords slidably mounted in the loops of said 10 straps and having depending free ends, horizontally elongated arcuate plates having longitudinally spaced forwardly and downwardly inclined apertures and front end portions extending substantial distances in front of 15 the foremost of said apertures, and means connecting the cords to said plates at points adjacent said apertures.

3. Suspenders including a shoulder strap, horizontally elongated plates engageable at 20 spaced points with the waist band of trousers, loop members having middle portions engaged with the ends of the shoulder strap, and ends connected at spaced points with the upper edge portions of the plates to provide 25 forwardly and rearwardly extending loop portions, a retaining strap connected with the shoulder strap to cause the free ends of the retaining strap to extend forwardly beneath the arms of the wearer, and means for 30 connecting the ends of the retaining strap with the rearwardly extending portions of the loops.

4. In suspenders including a shoulder strap having a portion to extend over a shoulder of 35 the wearer and downwardly in front of the shoulder, and a loop having a middle portion engaged with the lower free end of said strap portion, a horizontally elongated plate connected with the free ends of the loop at 40 points spaced on the plate to provide loop branches extending divergently forwardly and rearwardly from the shoulder strap, means for fixing the plate to the upper edge portion of trousers against horizontal movement, and retaining means including a strap 45 connected with the shoulder strap to extend forwardly beneath said shoulder and having a free front end engaged with the rearwardly extending branch of the loop.

50 In testimony whereof I affix my signature.
FRANK W. SHIPMAN.