

April 15, 1941.

L. KNUDSEN

2,238,528

TROUSER HANGER

Filed March 23, 1939

Fig. 1.

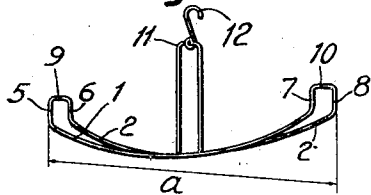


Fig. 2.

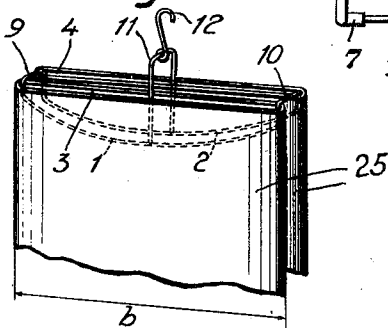


Fig. 3.

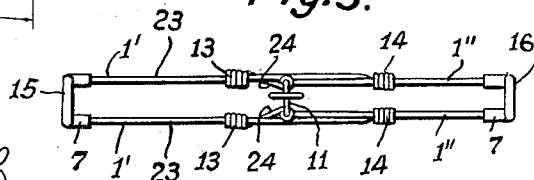


Fig. 4.

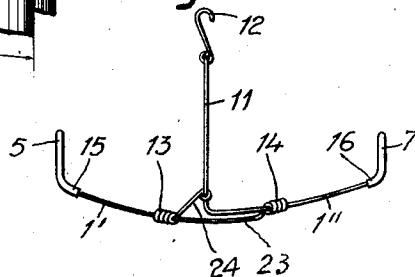


Fig. 5.

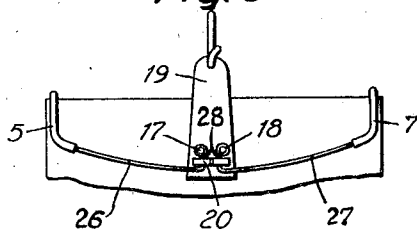


Fig. 6.

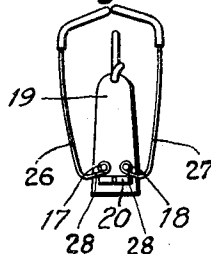
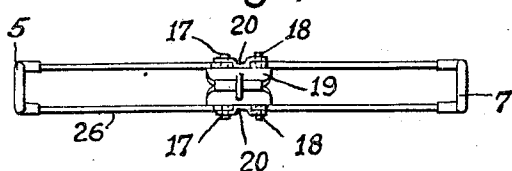


Fig. 7.



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UNITED STATES PATENT OFFICE

2,238,528

TROUSER HANGER

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Application March 23, 1939, Serial No. 263,68
In Norway April 16, 1938

3 Claims. (Cl. 223-95)

The present invention relates to a trouser-hanger of the kind in which the trousers are held at their lower edge by means of a pair of resilient members, which are stretched within the trouser-legs, and the novelty of the invention is that each such member has the shape of a downwardly curved arch.

The advantage of this shape is that the weight of the trousers increases the stretching pressure, since the arch-member will strive to become straight when the outer ends of the arch-member are pulled downwards in the trousers.

If the hanger shall be used in trousers, in which the legs have a lower width that is much greater or smaller than is common, the hanger may be made adjustable. It may also be made collapsible in order to take up less space when not used.

In the drawing:

Fig. 1 is a perspective view of a trouser hanger embodying the invention;

Fig. 2 is a fragmentary perspective view showing the hanger in use;

Fig. 3 is a top plan view of Fig. 4.

Fig. 4 is a side view showing a hanger embodying the invention but having bow-shaped members adjustable as to their length;

Fig. 5 is a side view illustrating an embodiment of the invention in which each bow-shaped member is made of two pivotally mounted sections;

Fig. 6 is a view showing the hanger of Fig. 5 in its folded condition.

Fig. 7 is a top plan view of the device shown in Fig. 5.

My improved hanger comprises two similar parallel resilient bow-shaped or arch members having their concave faces directed upwardly, each member having at its end an upwardly directed trouser-engaging portion adapted to enter the trouser leg, the trouser-engaging portions at each end of the hanger being connected at their upper ends. In Figs. 1 and 2, the two bow-shaped or arch members are indicated at 1 and 2 respectively, said members being shown as being made of resilient wire and having the concave side directed upwardly. The bow-shaped member 1 has at each end an upwardly directed trouser-engaging portion, such portions being indicated at 5 and 7 in Fig. 1. Similarly, the bow-shaped member 2 has at each end an upwardly directed trouser-engaging portion, said portions being indicated at 6 and 8. The two upwardly directed portions 5 and 6 are rigidly connected by means of a transverse portion 9, and the two upwardly directed trouser-engaging portions 7 and

8 are likewise rigidly connected by a transverse portion 10.

11 indicates a suspender or hanging device by which the hanger is suspended, and this may conveniently be made of wire bent into U shape and having its ends secured to the bow-shaped members 1 and 2 at the central portions thereof.

12 indicates a hook secured to the suspender 11 and by which the hanger may be hung up. In using the device, the two arch members or bow-shaped members 1 and 2 are inserted into the trouser legs 25, as shown in Fig. 2, the trouser-engaging portions 5, 6, 7 and 8 having frictional engagement with the trousers.

The length a of the hanger in Fig. 1 corresponds to or is normally somewhat greater than the width b of the trouser-leg in Fig. 2. The arch-members of the hanger are therefore bent somewhat together, being as already mentioned resilient, in order to enable the insertion of the same in the trouser-legs.

When the hanger is inserted in the trouser-legs and hung up by the hook 12 the weight of the trousers will strive to pull the trousers from the hanger. But owing to the friction between the trousers and the portions 5, 6 and 7, 8, the trousers will be prevented from gliding down, since the resilient arch-members 1 and 2 will stretch themselves a little and increase the pressure of the trouser-engaging portions 5, 6 and 7, 8 against the trouser-creases. In order to increase the friction it will be suitable to provide the said portions with a covering that may consist of rubber, or other suitable material.

In Fig. 4, I have shown an embodiment of the invention in which the bow-shaped or arch members are made adjustable longitudinally in order to adjust the length a thereof in accordance with the width b of the trouser leg so as to obtain the proper frictional engagement between the trousers and trouser-engaging portions, in order that the trouser hanger may support the trousers effectively. Each bow-shaped arch member is indicated at 23, and it comprises the two sections 1' and 1'', the section 1' having the upwardly directed trouser-engaging portion 5 and the section 1'' having the upwardly directed trouser-engaging portion 7. These two sections 1' and 1'' overlap somewhat at the central part of the bow-shaped member 23 and the end of the section 1' is wound around the section 1'' to make a guiding portion 14. The inner end of the section 1'' is bent upwardly, thereby forming the suspender 11, and the lower end of the suspender is connected by a short wire connection 24 with the

portion 1', said wire connection being coiled about the part 1' as shown at 12, thereby making another guide. With this construction, each of the bow-shaped members 23 can be extended or contracted so as to fit trouser legs of different widths. 15 and 16 in Fig. 4 represent rubber or other suitable friction material which is applied to the upstanding trouser-engaging portions of the hanger for the purpose of increasing the frictional engagement of said portions with the trousers.

In Figs. 5 and 6, there is shown a folding trouser hanger embodying the invention which is especially intended for travelers since it can be folded into a small space. In this embodiment, each bow-shaped or arch member is formed with the two sections 26 and 27 that are pivotally connected at 17 and 18 respectively to the suspender member 19. The inner end of each of the sections 26 and 27 is turned upwardly, as shown at 28, and the upper end of each upstanding part 28 is formed with an eye which is pivoted on the pivot bolts 17 and 18.

20 indicates a spring element secured centrally on the part 19, and having resilient ends which overlie the upstanding portions 28 when the hanger is extended for use, as shown in Fig. 5. The hanger, however, can be folded into a small space by swinging the two sections 26, 27 toward each other, as shown in Fig. 6.

The hanger is, of course, not limited to the embodiments shown in the drawing.

Having now described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A trouser hanger comprising two similar parallel resilient bow-shaped members, an upwardly directed suspender member for the hanger extending from the concave side of the bow-shaped members in a radial direction, each bow-shaped member having an upwardly directed, trouser-engaging portion at each end thereof, the trouser-engaging portions at each end of the hanger being connected at their upper ends, the frictional engagement of the trouser-engaging portions with the inside of the trouser legs which is created by the weight of the trouser tending to flatten somewhat by the bow shape of said members, and thus increase the length thereof, thereby increasing the frictional engagement between the trouser-engaging portions and the trouser legs.

2. A trouser hanger according to claim 1 in which each bow-shaped member consists of two sections which are adjustable relative to each other and in the direction of the length of the bow-shaped members.

3. A trouser hanger as described in claim 1 in which each of the bow-shaped members is made in two sections which are pivotally mounted on the suspender member and may be swung upwardly toward each other, thereby providing a folding hanger.

LEIF KNUDSEN.

CERTIFICATE OF CORRECTION.

Patent No. 2,238,528.

April 15, 1941.

LEIF KNUDSEN.

It is hereby certified that error appears in the printed specification of the above numbered patent requiring correction as follows: Page 2, second column, line 16, claim 1, strike out the word "by"; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 13th day of May, A. D. 1941.

(Seal)

Henry Van Arsdale,
Acting Commissioner of Patents.