Oct. 4, 1966 F. D. BUZZELLI 3,276,645

HANGER

Filed Oct. 4, 1965

FIG. 1

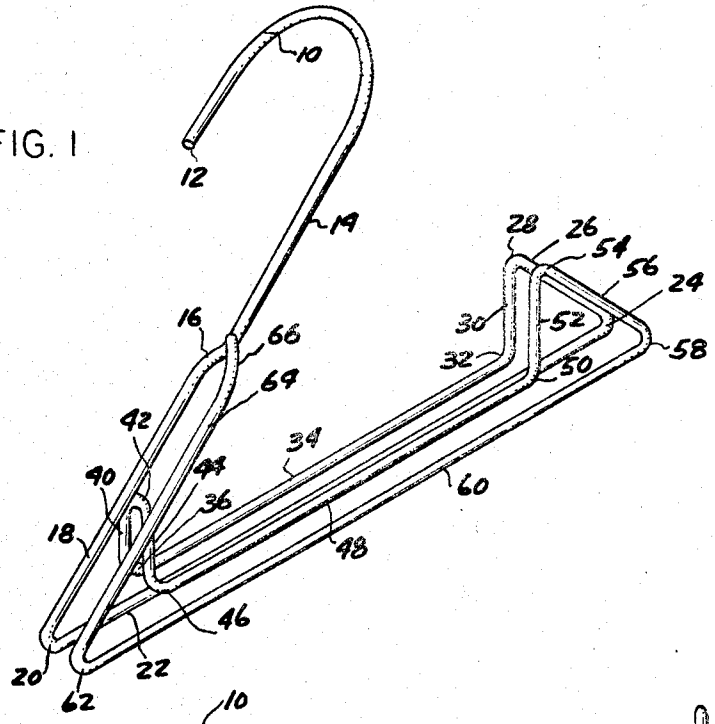


FIG. 2

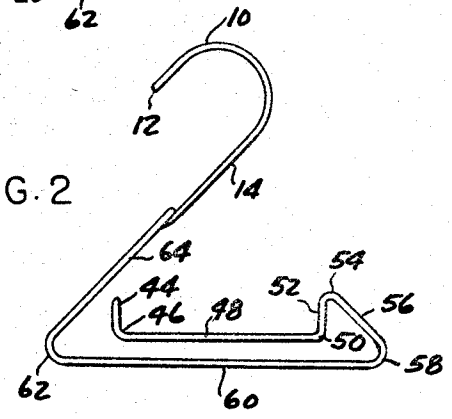


FIG. 3

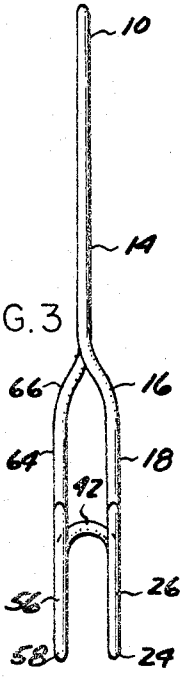
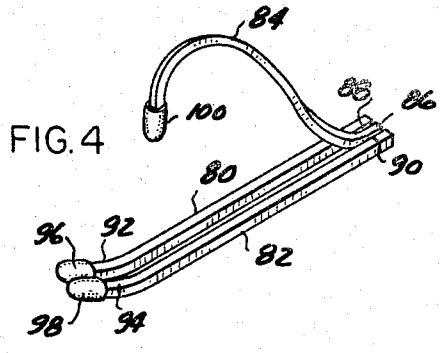


FIG. 4



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HANGER

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1 Claim. (Cl. 223—95)

This application is co-pending with patent application Serial Number 322,310, filed November 8, 1963. It relates to clothing hangers, and more particularly to a hanger for pants having stirrup straps or loops extending across the bottom of each pant leg. Specifically, it has reference to a hanger formed of a single section of wire or rod, bent and re-bent to form a hanger having a bar engaging loop and a pair of parallel extending support sections adapted to retain a pair of stirrups and or instep straps so that the pants hang downwardly from the support sections in an inverted manner.

As disclosed in the following description of a preferred embodiment of my invention, the hanger is formed so as to have a curved hook section adapted to engage a normal closet bar; a shank section, extending downwardly in an inclined angle and connecting to one end of a pair of support members which include sections extending equally on opposite sides of a center line through the hook and have vertical sections which act as the stops for the straps at both of their ends.

It is the primary object of the present invention to form such a hanger out of a single sheet of wire in an economical and aesthetically pleasing manner.

Other objects, advantages and applications of the present invention will be more readily apparent from the following detailed description of two preferred embodiments of the invention. The description makes reference to the accompanying drawings in which:

FIGURE 1 is a front perspective view of a first embodiment of my invention bent out of a single length of wire rod;

FIGURE 2 is a side view of the hanger of FIGURE 1;

FIGURE 3 is a rear view of the hanger of FIGURE 1;

FIGURE 4 is a second embodiment of my invention which may be formed from extruded aluminum.

Referring to the drawing, the embodiment of FIGURES 1–3 is formed of a bent section of wire which is preferably circular in cross section. The apparatus for bending the wire in the desired configuration does not form part of the present invention and any well-known techniques and apparatus may be employed for this purpose.

One end of the wire is bent into a curved hook **10** with its extreme end **12** pointed in a downward direction. The hook is intended to support the hanger on a horizontal closet bar of the normal variety. The shank **14** of the hook extends in a downwardly inclined direction, at approximately 45 degrees to the vertical in a direction generally parallel to the extension of the end section **12**. At a point somewhat below the end **12**, the shank has a slight sidewise bend **16** and continues downwardly at the same angle as the shank **14** but displaced to the side thereof in a section **18**. The lower end of the section **18** connects through an acute bend **20** to what will be termed a lower horizontal section **22**. The section **22** is horizontal when the hooked end is positioned over a closet bar. All of the other orientations of the hanger with respect to the horizontal and vertical are also taken with respect to this reference attitude.

The lower horizontal section **22** extends in a direction parallel to the plane of the hook **10** and the shank **14** for a length approximately equal to twice the horizontal separation of the bend **20** from a vertical line through the center of the hook or through the closet bar that the hook is hanging upon. In other words, a vertical plane through the center of the hook perpendicular to the lower

horizontal member **22**, would bisect that member. At its extreme end, the lower horizontal section **22** is acutely bent at **24** to form an upwardly inclined section **26** which projects in the general direction of the hook **10**. This section is relatively short and its upper end is joined by an acute bend **28** into a short vertical section **30**. The lower end of the section **30** is disposed directly above the lower horizontal section **22**. The lower end of the section **30** is connected by a 90 degree bend **32** into an upper horizontal section **34** which extends parallel to and directly above the lower horizontal section **22**.

At a point shortly before it would intersect the inclined section **18** the upper horizontal section **34** is bent upwardly in a 90 degree angle at bend **36** into a short vertical section **40**. A 180 degree bend **40** at the upper end of the vertical section displaces a connecting vertical section **44** on the opposite side of a plane through the hook **10** and shank **14** by a distance equal to the displacement of the members **18**, **22**, and **34** from that plane on the opposite side. Thus, the vertical section **44** extends parallel to the vertical section **40** on the opposite side of the plane through the hook member **10**. At its lower end, a 90 degree bend **46** connects the vertical section **44** into an upper horizontal member **48** which is parallel to and complementary to the upper horizontal member **34**. A 90 degree bend **50** at the rear end of the member **48** connects to a vertical section **52** which extends parallel to the vertical section **30** and an acute bend **54** at the upper end of the vertical section **50** connects to a downwardly inclined section **56** that extends parallel to the section **26**. An acute bend **58** at the lower end of the inclined section **56** connects to a lower horizontal section **60** that parallels the lower horizontal section **22** on the opposite side of the plane through the hook **10**. An acute bend **62** at the forward end of the lower horizontal section **60** joins it to an upwardly inclined section **64** that parallels the section **18**.

The hanger is completed by a short bend section **66** on the upper end of the section **64** which complements the bend **16** and terminates at the upper end of the bend **16**.

The hanger thus formed is adapted to be hung on a standard closet bar and a pair of stirrup straps attached to the end of stretch pants may be supported on the sections **34** and **48** by bringing them over the bends **28** and **54**. The length of the sections **34** and **48** are wide enough to accommodate the widest straps and yet the upwardly bent end sections **30**, **52**, **40** and **44** prevent even narrow straps from sliding sufficiently to bring the structure off balance. Basically, the straps are supported in the general area of the center of gravity of the hanger below the closet bar.

The provision of the members **48** and **34** directly over the members **22** and **60**, allows the use of a smaller diameter wire than would be required if the vertical extensions were opposed directly on the lowermost members **22** and **60**, and the upper members **34** and **48** were eliminated. This is because a single stirrup member will surround both of one of the upper and lower sections, such as the members **48** and **60**. As the weight of the pants hanging by the stirrup causes the upper section **48** to bend at its right end, as viewed in FIGURE 1, the hanger will begin to bear on the lower member also, and the unit will thus be adapted to support twice the weight, without bending, that it would if only a single extension were employed. The lower sections **22** and **60** may be also used to support a second pair of ski pants, or other items.

The particular bent configuration avoids the provisions of any ends or sharp edges in the area in which the straps are placed so as to minimize the possibility of the straps snagging on the hanger.

FIGURE 4 discloses a second embodiment of my invention. This embodiment is formed of extruded alumi-

num stock. It has a pair of parallel separated leg members **80** and **82** and a hook member **84**. The members **80**, **82**, and **84** are all joined together at one end **86** in the original extruded fashion. The separation between the members **80**, **82**, **84** and **86** along the major portion of the length is achieved by sawing the original extruded section along two indented lines **88** and **90** for the major portion of the length of an original section. The free ends of sections **82** and **80** are bent gently upwardly as **92** and **94** and are covered by rubber tip members **96** and **98**. Similar rubber cover **100** encloses the free end of the hook section **84**.

Having thus described my invention I claim:

A hanger for pants having stirrup-like straps extending across the ends of the legs, formed of a single length of bent wire, adapted to be hung over a horizontal closet bar and comprising: one end section bent in a generally downwardly directed hook adapted to engage the closet bar; an inclined downwardly directed shank section joined to the end of the hook; a first lower horizontal section connected to the shank and displaced from the plane of the hook in a first direction below said hook, an upwardly and downwardly extending bend at the extreme end of the first lower horizontal section connecting it to a first upper horizontal section displaced directly above said first lower horizontal section; an upwardly and downwardly extending bend at the extreme end of the first upper horizontal section connecting it to a second upper horizontal section which extends parallel to and displaced from the first upper horizontal section on the opposite side of the plane of the hook member; an upwardly and downwardly extending bend at the other extreme end of the second upper horizontal section connecting it to a second lower horizontal section which extends parallel to said first lower horizontal section displaced from it on the opposite side of the plane through the hook and displaced directly below said second upper horizontal section, said hook being disposed over substantially the transverse centers of said first and second upper and lower horizontal sections, whereby a pair of stirrup straps may be placed over the first and second upper horizontal sections between the bends at their respective ends.

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