Sept. 25, 1956 M. A. BREEN 2,764,296

HANGER AND BRACKET COMBINATION

Filed July 22, 1953

Fig 1.

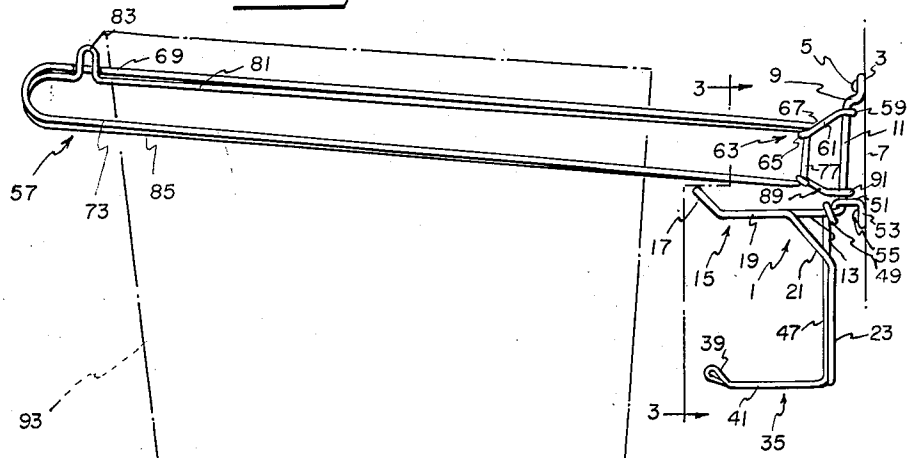


Fig 2.

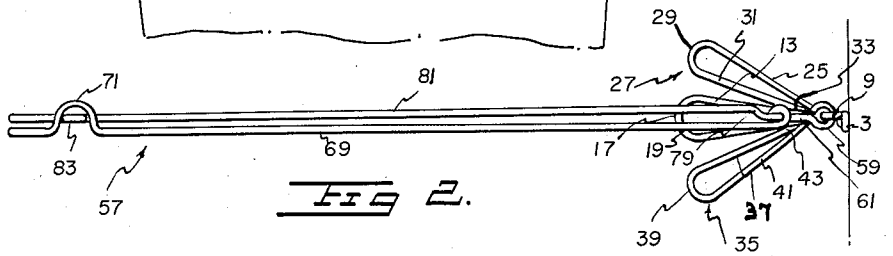


Fig 3.

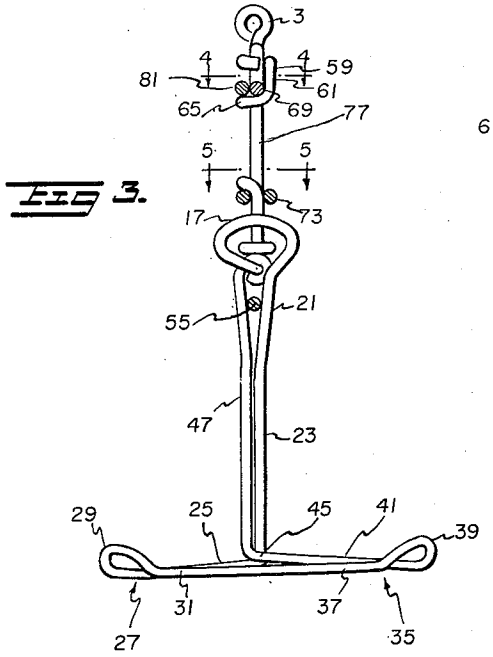


Fig 4.

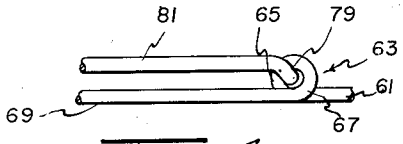
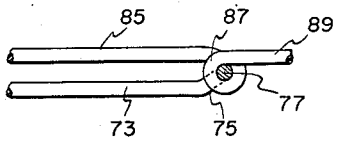


Fig 5.



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HANGER AND BRACKET COMBINATION

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1 Claim. (Cl. 211—89)

This invention relates broadly to the art of clothes hangers and in its more specific aspects it relates to a hanger for trousers and a mounting arrangement therefor which includes hangers for other articles of wearing apparel; and the nature and objects of the invention will be readily recognized and understood by those skilled in the arts to which it relates in the light of the following explanation and detailed description of the accompanying drawings illustrating what I at present believe to be the preferred embodiments or mechanical expressions of my invention from among various other forms, arrangements, combinations and constructions, of which the invention is capable within the spirit and scope thereof.

There are many various types of clothes hangers on the market today but as far as I am aware no one of them provides in a unitary structure means from which a pair of pants may be suspended in such position and manner that the pockets need not first be emptied of their contents and the trousers will be maintained in their pressed condition and cannot become wrinkled. I know of no other prior hangers of the character of this invention which provided mounting means for the trouser hanger which mounting means provides supporting structure for other garments.

It has been one of my purposes to provide a hanger and mounting means therefor in which the mounting means not only constitutes a bracket for the trousers hanger but also provides hook structures for supporting various garments other than the trousers of the user. In evolving this structural combination I have provided an article which is economical to manufacture and which is so constructed that it will give many years of trouble-free service.

This hanger and bracket combination is preferably, though not necessarily, constructed of metal wire of a gauge sufficient to give the necessary strength to the article while still possessing the necessary degree of flexibility and being light in weight. The entire organization is formed of only two lengths of wire which are bent and twisted to provide the finished structural combination.

In use, a pair of trousers is clamped between hanger rods which extend from the mounting bracket; however, I have so designed the hanger rods that the clamping pressure on the trousers, while being sufficient to hold the trousers in proper suspended position, will not be strong enough to leave a crease or mark on the trousers. The mounting bracket is adapted to be secured to a door, wall or the like supporting surface and the trouser hanger rods are swingably associated with the bracket so that they may be swung relative thereto. I have constructed the bracket so that the rods will normally swing to a position adjacent to the supporting surface for the bracket and will not normally project outwardly into the room in which the hanger is being used. This is an obvious advantage of my hanger over those in the prior art.

With the foregoing general objects, features and results

in view, as well as certain others which will be apparent from the following explanation, the invention consists in certain novel features in design, construction, mounting and combination of elements, as will be more fully and particularly referred to and specified hereinafter.

In the accompanying drawings:

Fig. 1 is a view in side elevation of my hanger and bracket combination in mounted operative position.

Fig. 2 is a top plan view of my hanger and bracket combination.

Fig. 3 is a view taken on line 3—3 of Fig. 1.

Fig. 4 is a view taken on line 4—4 of Fig. 3.

Fig. 5 is a view taken on line 5—5 of Fig. 3.

In the accompanying drawings, I have used the numeral 1 to designate in its entirety the mounting bracket which includes the garment hooks. This bracket and the hooks comprise an integral unit which is formed of one length of metal or other wire of suitable gauge, strength and flexibility, and consists of an upper end which is bent into the form of an eye 3 which is adapted to receive therethrough a screw or the like for screwing into a door, wall or other suitable supporting surface 7, the eye providing one mounting point for the hanger and bracket organization. The length of wire forming the bracket and garment supporting hooks is bent so as to extend outwardly from the lower end of the eye 3 to provide a short upper mounting leg 9 from which depends the hanger supporting spindle 11 which is a substantially straight length of the wire. At the lower end of the spindle 11 the wire is bent outwardly to provide one leg 13 of a garment supporting hook designated generally by the numeral 15, the wire being bent at its outer end to form an upwardly inclined nose 17 and a return length or leg 19. It will be observed that the length of leg 19 is reduced relative to the length of complementary leg 13 of hook 15, and at its inner end leg 19 is bent at an angle on the order of 45° to extend downwardly thereby providing an inclined reach 21. The hook 15 has been especially designed for the shirt and tie of the user although it will be recognized that it may be used for supporting other and various types of garments.

A substantially vertical length of wire 23 depends from the lower end of reach 21 and the wire at the lower end of length 23 is bent to extend substantially horizontally therefrom forming one leg 25 of a garment hook indicated generally by the numeral 27. The leg 25 extends from the length 23 at an acute angle with respect to the surface 7 upon which the hanger and bracket combination is adapted to be mounted. An upwardly inclined nose 29 is provided by bending the wire at the outer end of leg 25, whereupon a further leg 31 is formed to complete the hook 27, the leg 31 being shaped to extend toward and preferably in contact with the root portion of leg 25 as at 33. A further garment receiving hook designated generally by the reference numeral 35 is provided which extends in the opposite direction from hook 27 at an acute angle with respect to a supporting surface 7. The hooks 27 and 35 extend in substantially the same horizontal plane and the hook 35 is formed by curving the inner end of leg 31 outwardly forming a leg 37 having at its outer end an upwardly inclined nose 39 from which the other leg 41 of the hook extends, the leg 37 being shaped to contact leg 41 as at 43.

It will be evident from the consideration of the drawings that outer legs 25 and 41 of hooks 27 and 35 respectively extend at substantially right angles to one another and the leg 41 is extended in a generally rearward direction with a slight upward incline to extend over leg 25 as at 45. At a location slightly beyond point 45 the wire is bent to provide a length 47 extending upwardly adjacent to length 23. It will be appreciated that lengths 23 and 47 and inclined reach 21 provide the supporting

or suspending means for the pair of hooks 27 and 35.

The supporting length 47 at the upper end thereof adjacent to arm 13 of upper hook 15 is twisted or coiled about said arm 13 as at 49 and is then projected rearwardly past spindle 11 to provide a long lower mounting leg 51 which is formed to provide an eye 53 on its end which is adapted to be placed against a supporting surface 7 for attachment thereto by means of a screw or the like 55. Consideration of the drawings shows that the coil 49 is in front of spindle 11 so that it will not be able to move or be pulled forwardly when the eye 53 is attached to the wall. Thus the hanger and bracket combination is fixed to the supporting surface by means of the pair of eyes 3 and 53 and screws 5 and 55 and due to the relative lengths of the legs 9 and 51 the spindle 11 will not extend in a plane parallel to the supporting surface 7. It will also be recognized that the entire bracket and included hooks are formed of one length of wire, the two ends of which provide the eyes 3 and 53. It will also be understood that I have so designed this bracket and hook that it will withstand considerable weight and other stresses and strains to which it may be subjected in normal use, for instance, the construction at points 33, 43, 45 and 49 are unique in adding to the strength and reinforcement of this article. Because of such structure I am enabled to construct the bracket of wire or other material of reduced gauge and less cost.

In order to allow clearance between reach 21 and leg 47 for inserting a screw 55 through eye 53, I have formed the reach 21 and length 33 with a bend away from length 47 as clearly illustrated in Fig. 3 of the drawings.

The mounting bracket 1 not only includes the garment and apparel hook supports 15, 27 and 35 but also functions as a supporting element for a trouser hanger which is designated in its entirety by the numeral 57.

The trouser hanger 57 is constructed of one length of wire or other suitable material and is swingably supported from the mounting bracket 1. One end of the wire forming the hanger 57 is looped about the spindle 11 to form a hinge element 59 from which downwardly extends a supporting arm 61 which at the outer end thereof is looped to provide an eye or coil designated generally by the numeral 63 which coil includes a lower turn 65 and an upper turn 67, the coil being so formed that the upper turn is in engagement with the lower turn. Projecting outwardly from the upper turn of the coil is a relatively long length of wire 69, forming one of the hanger rods of pairs of co-active hanger rods as will be fully explained hereinafter. Adjacent to but inwardly spaced from the outer end of rod 69 I form a bend 71 in the wire and at its end the rod 69 is provided with a return bend to provide a rearwardly extending hanger rod 73 of substantially the same length as hanger rod 69, the two rods being in substantially the same vertical plane. At the rear end of rod 73 an offset 75 is formed.

Extending upwardly from the rear or inner end of offset 75 is what I shall term a base rod 77 which in the finished article projects upwardly and somewhat rearwardly toward spindle 11. The base rod extends upwardly through coil 63 and then is projected outwardly and away from rod 69 providing an offset length 79 from which extends hanger rod 81 which is co-active with and extends generally parallel to rod 69. The offset 79 extends over the lower turn 65 of coil 63. Adjacent to but inwardly spaced from the outer end of rod 81 I provide a projection 83 which is co-active with the bend 71 in rod 69 as will be fully explained hereinafter.

I form a return bend 81' in the rod 81 at its outer end, providing a further hanger rod 85 which in the finished product is co-active with hanger rod 73, the rod 85 being of substantially the same length as rod 73. At its inner or rear end rod 85 is coiled about base rod 77 forming an eye or coil 87. A supporting arm 89 extends rearwardly and downwardly from coil 87 and at the rear

end thereof the wire is looped or coiled about spindle 11 to form a supporting hinge 91 which, with hinge 59 forms the supporting means for the trouser hanger 57. Thus the trouser hanger 57 is formed of one length of wire or other suitable material, each end of which is formed into the hinge elements 59 and 91.

When the combination bracket, garment hooks and trousers hanger is mounted on a supporting surface the spindle 11 will not be in exact vertical position due to the relative differences in lengths of mounting legs 9 and 51, thus the trouser hanger 57 which is mounted on the spindle for free swinging movement will swing to one side or the other adjacent the supporting surface 7 so that the trouser hanger comprised of the various hanger rods will not normally be projected into the room. This inclination of the spindle from the vertical and a slight upward inclination of the hanger rods produces an upward inclination of the hanger rods so that a pair of trousers 93 which are suspended from the rods and the waist of which may be cut on the bias will hang straight and as worn.

The trousers hanger, which consists of the pairs of clamping hanger rods 69, 81 and 73, 85 respectively, the rods 69 and 81 being clampingly co-active and rods 73 and 85 being clampingly co-active, are so designed that the trousers will be clamped therebetween for suspension therefrom but will not be creased due to the offsets 75 and 79 at the base ends of rods 73 and 81. When a pair of trousers are placed between the pairs of hanger rods the bend 71 is placed behind the projection 83 to maintain the rods in trouser holding position until released by moving the projection from the bend.

It will be recognized that I have evolved a hanger and bracket combination which is formed of only two lengths of wire so bent, deformed and assembled that points of possible weakness are eliminated and a durable assembly is provided. While the hanger and bracket combination of this invention may be formed of metallic wire it may also be formed of plastic or other suitable materials.

I claim:

A trousers hanger and bracket including in combination, a bracket adapted to be mounted on a supporting surface, said bracket including means for swingably mounting and supporting a trousers hanger, and a trousers hanger formed of a single length of wire which is deformed providing a pair of clamping members each of which includes a pair of hanger rods, the clamping members being adapted for limited movement toward and from each other and adapted to clamp a pair of trousers therebetween and said clamping members being provided with means adjacent the outer ends thereof for releasably maintaining said members in trousers clamping position, the inner end of one hanger rod of each clamping member being bent to form a base rod connecting said two hanger rods and the inner ends of the remaining two hanger rods being coiled about said base rod to thereby provide an arrangement limiting the movement of said clamping members away from each other, and each of said coiled inner ends of the remaining two hanger rods being extended inwardly from said base rod forming supporting arms, and the inner end of each supporting arm being pivotally mounted on said means on said bracket for swingably mounting and supporting the trousers hanger.

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