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R. W. CAMPBELL

1,973,974

NECKTIE RACK

Filed May 25, 1932

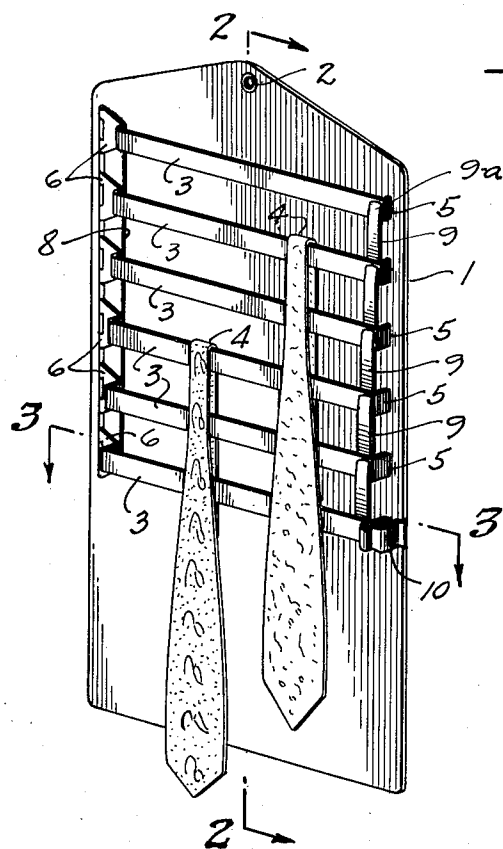


Fig. 1

Fig. 2

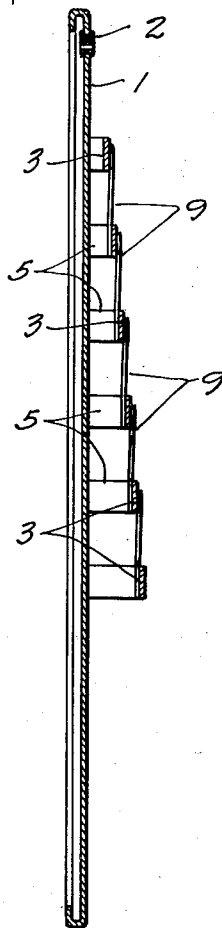
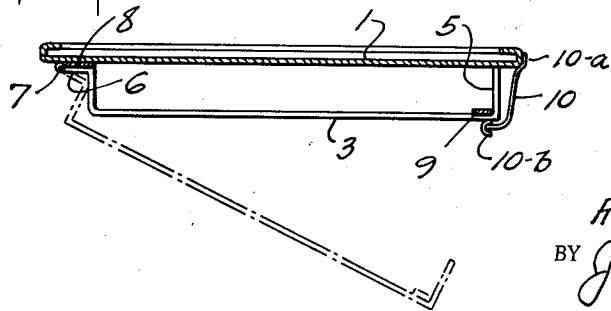


Fig. 3



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NECKTIE RACK

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5 Claims. (Cl. 211—96)

My invention relates to tie racks, the object being to provide a convenient tie-hanger of simple and economical construction which facilitates placing of the ties, effectively exhibits them to enable easy selection, and renders any of them accessible for removal with a minimum of disturbance or displacement of others.

In the accompanying drawing, Fig. 1 is a perspective view (with partial contents) of the rack showing the manner in which ties are folded over the hanger-arms for support; Figs. 2 and 3, respectively, are sections on lines 2—2 and 3—3, respectively, of Fig. 1.

Referring in detail to the drawing, in which like numerals refer to similar parts throughout the several figures,—

1 indicates a support of sheet material, preferably of sheet metal, and 2 a perforation to enable the rack to be hung on a nail, screw or the like convenient of access,—usually on a door or wall. A plurality of parallel, spaced-apart, and horizontally-disposed hanger-arms 3 are provided on which it is intended that ties shall be hung by folding over, as illustrated at 4—4 Fig. 1.

The hanger-arms 3 are all hinged (as indicated most clearly in Fig. 3) each at the same corresponding end (as specifically hereinafter described) so as to permit an opening position, as shown in dotted lines in Fig. 3, and to allow a closed position, as illustrated in solid lines in each of the several figures.

End portions of each of the hanger-arms 3 are bent at right angles to their tie-supporting portions to form extensions 5 to space said hanger-arms 3 at an equal distance at each of their ends, from support 1. Extensions 5 are (beginning with the uppermost hanger-arm 3) successively of greater length so as to space their respective horizontal tie-supporting portions of hanger-arms 3, each at a different distance from but parallel with, support 1, said distance successively increasing from the top to the bottom of the device, as most clearly shown in the sectional view of Fig. 2.

Extending outwardly from, and at right angles to, each of the extensions 5 on the hinge side of hanger-arm 3 there are formed hinge-plates 6, the crenelated outward ends of which are rolled in hollow cylindrical form to embrace hinge-pin 7, which hinge-pin 7, is also embraced at other alternate portions of its length by the rolled hollow, cylindrical crenelated, free edges of hinge-plate 8, which hinge-plate 8 extends vertically from the uppermost to the lowermost of hanger-arms 3 along their hinged side, and is secured to sup-

port 1 in any suitable manner well known to the art, such as by rivets, bolts, screws, nails, brazing, welding or the like, depending on the material of which the parts are composed.

Each of the hanger-arms 3, except the uppermost, is provided at its swinging end (attached in any suitable manner, such as by rivets, bolts, screws, or the like) with an upwardly-extending spring-finger 9, which at its upper end is slightly bent or curved, as indicated at 9a, so that in closed position it engages or presses upon the hanger-arm 3 immediately above it, thus, when the lowermost hanger-arm 3 (having been previously swung open on its hinge) is moved toward closed position, said spring finger 9 reaches and engages the hanger-arm 3 immediately above it, and each of the spring fingers 9 above the lowermost in turn engages, impels toward, and holds in closed position the hanger-arm 3 immediately above it.

10 is a spring latching element secured in any suitable manner well known to the art at its end 10a to support 1, and having its upper end 10b bent over so that when the lowermost hanger-arm 3 is in closed position the upper portion 10c of said latching element engages frictionally, and by slight tension holds, the lowermost hanger-arm 3 (and through the series of spring-fingers 9 all of the hanger-arms 3) in closed position; but which latching element 10 may be sprung outwardly to permit opening of the hanger-arms 3 for the convenient inspection, placing and removal of ties.

What I claim as new and desire to secure by Letters Patent are,—

1. In a tie-rack, a supporting base, a plurality of parallel bars secured to said base, means to space said bars from said base, hinge means connecting said bars each independently to said base and permitting their swinging opening and closing movements relative thereto, a spring latch engaging the lower-most of said bars, and means to communicate the closing movement of the lowermost bar to those above it.

2. In a tie-rack, a supporting base, a plurality of parallel vertically spaced bar-hangers secured to said base and spaced from said base, hinge means connecting said bar-hangers to said base whereby the bar-hangers may swing independently of one another, means to latch to said support the free end of the lowermost of said bar-hangers when in closed position, means adjacent to the free end of each of said bar-hangers to engage the bar-hanger immediately above it, to impel and hold the latter in closed position when

the lowermost of said bar-hangers is so moved and held.

3. In a device of the character described, a supporting panel; a series of bar-hangers carried by said panel; means at each end of each of said bar-hangers adapted to vertically space the same parallel with, but each at a different relative distance from said panel; a hinged connection at one of each of corresponding ends of said spacing means to secure said bar-hangers at one end through said spacing means, in hinged relationship with said panel; means at each of the unhinged ends of said bar-hangers adapted to contact with, impel to and hold in closure with respect to said panel the bar-hanger immediately above it; and latching means to detachably secure the lower-most of said bar-hangers in closed position with respect to said support.

4. In a tie rack, a vertical supporting panel, a plurality of bar-hangers pivotally supported adjacent one of each of their corresponding ends upon said panel, their opposite ends being adapted for swinging movement to open and closed posi-

tion with respect to said panel, means adjacent the ends of each of said bar-hangers to space the same horizontally and parallel and each at a successively increasing distance, from the uppermost to the lower-most of said bar-hangers, with respect to said panel, a spring latch adapted to engage the lower-most of said bar-hangers when the same is in closed position with respect to said panel, and means adjacent to the swinging end of each, except the upper-most bar-hanger, to communicate its closing movement and closed position to the bar-hanger immediately above it.

5. In a tie rack, a supporting panel, a plurality of hanger-arms each pivotally attached adjacent one of its ends to said panel, its opposite end being adapted to swing to open and closed position with respect to said panel, means to latch one of said hanger-arms in said closed position, and means integral with each arm to communicate closing movement and to detachably maintain closed position of said latched hanger-arm to and with those above it.

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75	150