May 10, 1949. H. M. CANNER 2,470,015

TIE RACK

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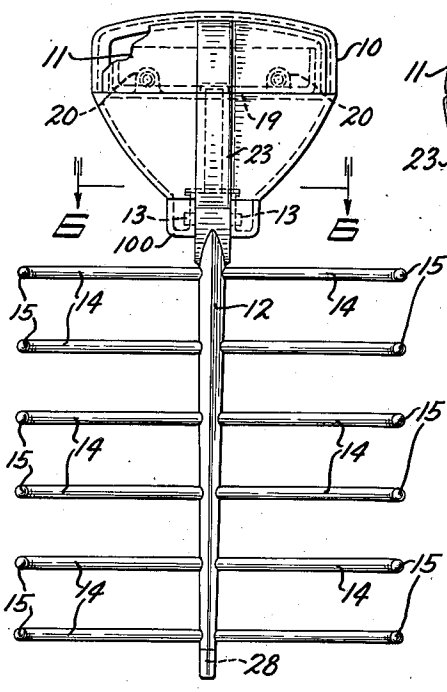


Fig. 1

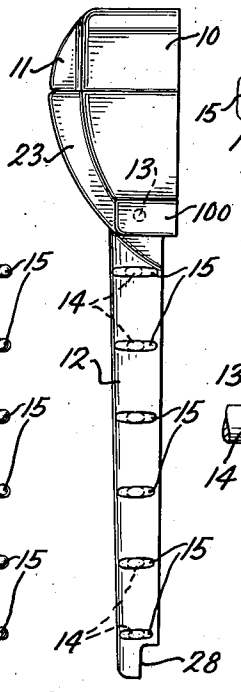


Fig. 2

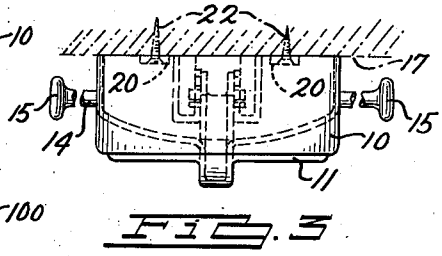


Fig. 3

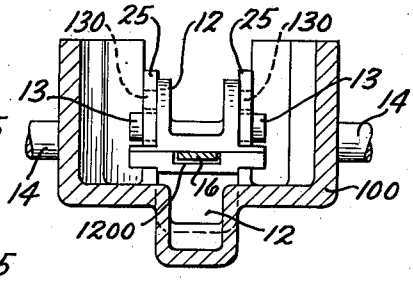


Fig. 6

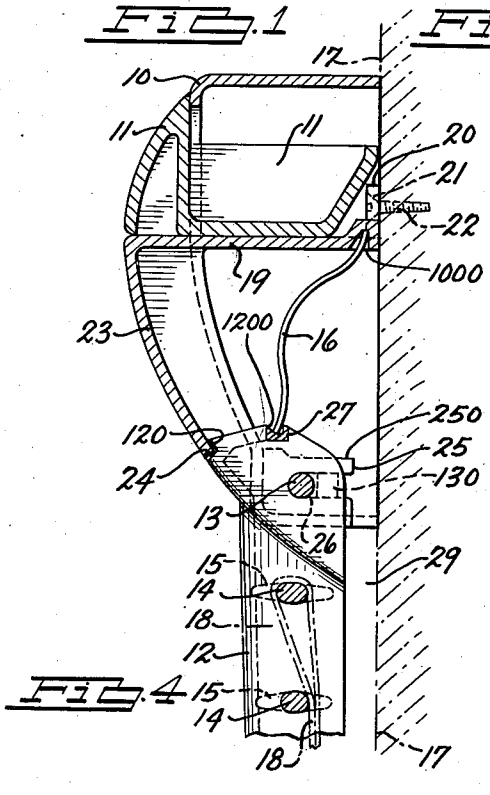


Fig. 4

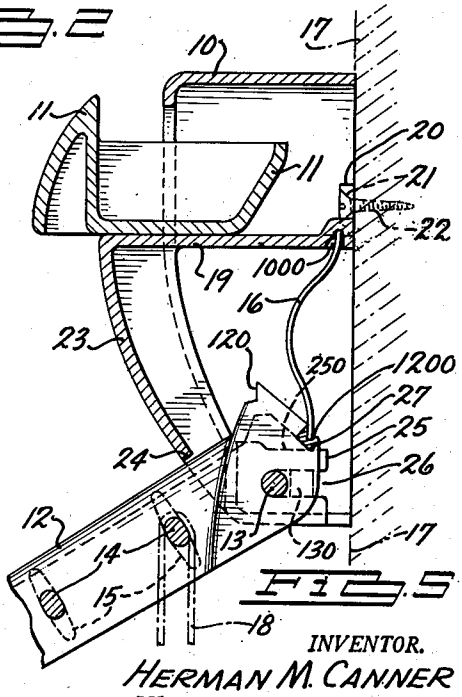


Fig. 5

INVENTOR.
HERMAN M. CANNER
BY
Everett G. Wright,
ATTORNEY

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TIE RACK

Herman Martin Canner, Detroit, Mich.

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1 Claim. (Cl. 211—100)

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This invention relates to tie racks and in particular to tie racks of the type that holds a plurality of neckties visible for selection therefrom.

The primary object of the invention is to provide a tie rack that may be secured to a door or like structure, which holds a plurality of neckties thereon visible for selection therefrom, and in which the tie holding means is normally spring loaded toward the door or like structure on which the tie rack is mounted whereby to prevent neckties displayed and stored thereon from accidentally sliding off thereof, the said tie holding means being pivotable outwardly from the door or the like upon which the tie rack is mounted to permit ties to be placed readily thereon and to provide easy access to ties stored thereon.

Other objects of the invention will become apparent by reference to the following detailed description taken in connection with the accompanying drawing, in which:

Fig. 1 is a front elevational view of a tie rack embodying the invention.

Fig. 2 is a side elevational view.

Fig. 3 is a plan view.

Fig. 4 is an enlarged fragmentary vertical sectional view taken substantially on the center of the tie rack disclosed in Figs. 1, 2 and 3 showing details of the construction thereof.

Fig. 5 is a fragmentary vertical sectional view similar to Fig. 4 except that the tie holding means is shown pivoted outward to the tie loading and unloading position.

Fig. 6 is an enlarged horizontal sectional view taken on the line 6—6 of Fig. 1.

Referring now to the drawing wherein like numerals refer to like and corresponding parts throughout the several views, the illustrative embodiment of the invention disclosed comprises, in general, a head 10 preferably having a sliding drawer 11 in the upper part thereof, a central normally depending arm 12 pivoted from the said head 10 on pivots 13 extending laterally therefrom, a plurality of vertically spaced tie supporting arms 14 projecting laterally from each side of the said central pivot arm 12, a knob 15 on the outer end of each tie supporting arm 14, and a toggle spring 16 anchored at one end in the head 10 and at the other end in the top of the pivoted central depending arm 12 above the pivots 13 thereof adapted to either hold the said central depending pivoted arm 12 and tie supporting arms 14 substantially parallel to the surface of a door or other structure 17 onto which the head 10 of the tie rack is mounted or at an angle outwardly therefrom responsive to manual

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manipulation whereby to maintain ties 18 on the tie supporting arms 14 substantially against the door 17 or like object onto which the tie rack is mounted or to present the pivoted central depending arm 12 and the tie supporting arms 14 in an attitude wherein ties may be readily placed on the said tie supporting arms 14 or readily selected and removed therefrom.

The head 10 is preferably formed of plastic with a transverse shelf 19 therein which supports the sliding drawer 11 adapted to pull out forwardly from the said head 10 as indicated in Fig. 6. The said drawer 11 is preferably employed for the storage of cuff links, collar buttons, tie clasps, and the like. A pair of vertically disposed lugs 20 are formed integral with but normal to the said shelf 19 and have a countersunk aperture 21 formed therein to accommodate screws 22 for mounting the said head 10 on a door or like structure 17 indicated by dot and dash lines in Figs. 4 and 5. A hollow rib 23 disposed vertically down the front of the said head 10 is stopped short of the bottom of the said head 10 at 24 to serve as a stop against which the notched front upper end 120 of the pivoted central depending arm 12 rests when in its vertical depending position shown in Fig. 4.

The central depending arm 12 is pivoted by means of laterally disposed pivots 13 formed integral therewith to the lower portion 100 of the head 10 by means of spaced supports 25 formed integral with the said head 10 which are provided with horizontally disposed rearwardly open slots 26 which receive the pivots 13 of the central pivoted depending arm 12 as best shown in Figs. 4, 5 and 6. Anchor blocks 130 fixed in the said slots 26 prevent the pivots 13 from sliding therefrom after assembly. As before mentioned, the front upper end of the central pivoted depending arm 12 is notched at 120 to rest against the lower portion 24 of the hollow rib 23 of the head 10 when the said central pivoted depending arm 12 is in its vertical depending position shown in Fig. 4. The top of the said central pivoted depending arms 12 is provided with a laterally central notch 1200 disposed forward and above the pivots 13 thereof as viewed in Fig. 4 to receive the lower end of the toggle spring 16. The upper end of the said toggle spring 16 is received and held in a laterally central notch 1000 formed in the bottom of the rear of the said transverse shelf 19 of the head 10. The said toggle spring 16 is suitably bowed at its center to assure its flexing properly during the manual movement of the central pivoted depending arm 12 from its de-

pending to its outwardly extended position shown in Figs. 4 and 5 respectively, and vice versa. The upper end of the said central pivoted depending arm 12 is provided with a pair of laterally extending lugs 27 which serve as stops when the said central depending arm 12 is pivoted forward as indicated in Fig. 5, the said stops bearing against the top 250 of the spaced supports 25 to limit the forward pivoting of the said central depending arm 12 by the toggle spring 16. The lower end of the said central depending pivoted arm 12 is preferably notched at 28 to permit it to be easily pulled by one's finger from its vertical depending position to its outwardly extended position.

Thus, the central depending pivoted arm 12, and the tie supporting arms 14 integral therewith carrying a plurality of ties 18 may be manually pivoted from its vertical position shown in Fig. 4 to its extended position shown in Fig. 5 and vice versa and held in either of such positions by the toggle spring 16. The space 29 between the said tie supporting arms 14 and the structure 17 onto which the tie rack may be mounted becomes filled with neckties 18 opposite the lowermost tie supporting arm 14 which are anchored against accidently sliding off the tie rack by the pressure of the toggle spring 16 urging the central depending pivoted arm 12 and the tie supporting arms 14 toward the said structure 17. The attitude of the said central depending pivoted arm 12 and the tie supporting arms 14 when they are held by the toggle spring 16 outwardly from the structure 17 as shown in Fig. 5 permits neckties to be placed thereon readily and permits neckties to be selected and removed therefrom with ease and dispatch and without several ties sliding therefrom inadvertently.

Although but a single embodiment of the invention has been disclosed in the drawing and described in detail, it is obvious that many changes may be made in the size, shape, arrangement and detail of the several elements of the invention without departing from the spirit and scope thereof as defined by the appended claim.

I claim:

A rack for neckties and the like comprising a fixed head securable to a structure disposed in a substantially vertical plane, a depending arm pivotally connected to the said fixed head at a point below the top thereof, the said fixed head and top of the pivoted depending arm having oppositely disposed notches therein extending parallel to the pivoted axis of the said depending arm, and a concavo-convex leaf type compression spring disposed at its ends in the said notches in compressive abutment against the said fixed head and the top of the pivoted depending arm exerting constant compressive spring pressure between the fixed head and the pivoted depending arm at a point above its pivot point whereby to maintain the said pivoted arm selectively either in vertical depending relationship substantially parallel to the structure on which the said head is mounted or in a diagonally outward relationship thereto responsive to manual movement of the said arm from one position to the other, rods laterally extending from the said pivoted arms for supporting objects in display relationship to each other, and means on the outer end of each of the said laterally extending rods for preventing accidental removal of objects therefrom when the pivoted arm is in its depending relationship.

HERMAN MARTIN CANNER.

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