Feb. 20, 1923.

1,445,803

M. SMALL ET AL

DISPLAY RACK

Filed June 30, 1921

Fig. 1.

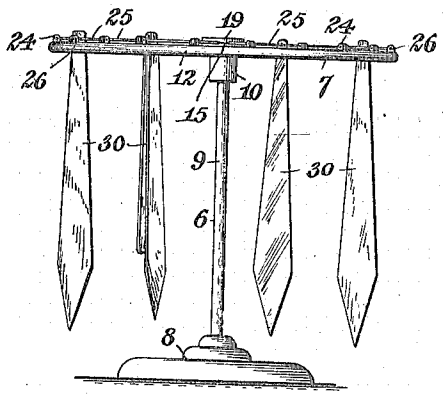


Fig. 2.

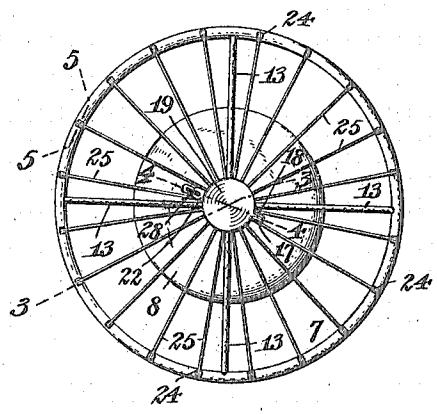


Fig. 3.

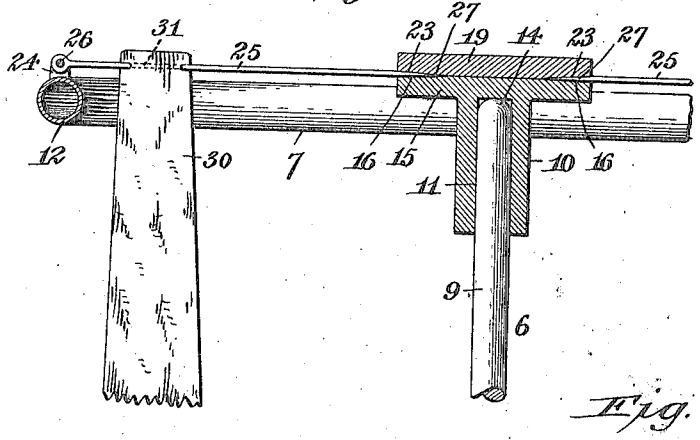


Fig. 5.

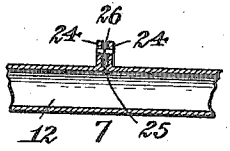
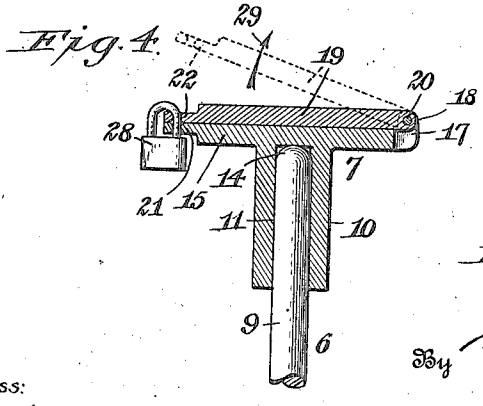


Fig. 4.



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UNITED STATES PATENT OFFICE.

MAX SMALL AND LOUIS SMALL, OF BUFFALO, NEW YORK.

DISPLAY RACK.

Application filed June 30, 1921. Serial No. 481,543.

To all whom it may concern:

Be it known that we, MAX SMALL and LOUIS SMALL, citizens of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Display Racks, of which the following is a specification.

Our invention relates to improvements in display racks, and more particularly to that type of rack for holding and displaying small articles of merchandise, such as ties, ribbons, or other articles.

In display racks now in use for such purposes, considerable loss occurs to merchants, due to the fact that ties or other small articles so displayed are stolen, as no means is provided for locking the articles on the rack.

Our invention has for its primary object, to provide a simple and inexpensive rack wherein articles displayed thereon are locked so that they cannot be stolen and so that the merchant or clerks will have to unlock the rack before an article can be removed therefrom.

A further object of our invention is to so construct a rack that a large number of articles of merchandise can be displayed thereon and so any of the articles can be brought to view of the purchaser without unlocking the rack.

With the above and other objects in view, the invention consists in the novel features of construction and in the arrangement and combination of parts to be hereinafter described and more particularly pointed out in the subjoined claims.

In the drawings:—

Fig. 1 is a side elevation of the rack showing a number of ties secured therein.

Fig. 2 is a plan view of the rack.

Fig. 3 is an enlarged vertical section through the upper portion of the rack, taken on line 3—3, Fig. 2.

Fig. 4 is an enlarged vertical section taken on line 4—4, Fig. 2.

Fig. 5 is an enlarged section taken on line 5—5, Fig. 3.

In the embodiment of our invention shown, 6 designates the stand on which the securing and display member 7 of the rack is mounted, said stand in the drawings being shown as having a base 8 and a rod or upright 9. The combined securing and display member 7, or head as it may be termed, comprises a hub or central member 10 having an axial bore 11 opening to the lower end thereof, a ring or outlining member 12 and arms 13 connecting the ring or outlining member with the hub 10.

The upper end of the rod or upright 9 is entered in the bore 11 and its upper extremity rounded, as at 14, and bearing against the inner or end wall of said bore. Preferably the hub 10 includes a flat disk-like member 15, which has slight radially-disposed depressions 16 in its upper face around its marginal portion, said depressions being spaced at regular intervals. Said disk-like member 15 has spaced upstanding lugs 17 between which is entered a lug 18 extending outwardly from the edge of a lock disk or plate 19 resting upon the upper surface of said disk-like member 15, a pivot pin 20 being passed through the lugs 17, 18 to pivotally connect said lock disk or plate to said hub.

The disk-like member 15 is provided at its edge with a loop 21 at a point diametrically opposite the lug 17 thereon, and the lock disk or plate 19 is also provided on its edge with a loop 22 diametrically opposite the lug 18 thereon, the openings in said loops 21, 22 being alined, as best shown in Fig. 4. The lock disk or plate 19 is also provided on its under side with marginal radially-disposed depressions 23, which are spaced at regular intervals around said disk or plate and are alined with the depressions 16 in the upper face of the disk-like member 15.

The ring 12 is preferably tubular, and at regular intervals around the same it has upstanding lugs 24, said lugs being arranged in pairs, as best shown in Fig. 5, and between each pair of lugs one end of a needle or rod 25 is pivotally secured, as at 26, each needle or rod having a sharpened inner end 27 adapted to enter alined depressions in the disk-like member 15 of the hub and the lock disk or plate 19, as clearly shown in Fig. 3.

Through the loops 21, 22 formed on the hub 10, and lock disk or plate, respectively, the hasp of a lock 28 is passed whereby the lock disk or plate is locked against the disk-like member 15 of the hub with the pointed ends of the needles between the two. When the lock 28 is detached from the loops 21, 22, the lock disk or plate 19 may be swung upwardly and backwardly on the hub, the direction of such movement being indicated

by the arrow 29 in Fig. 4. When the lock disk or plate is in this position, the free pointed ends of the needle or bar 25 are exposed and may be swung upwardly and outwardly on their pivots. Ties designated by the numeral 30, or other articles of merchandise may be forced over the pointed ends of the needles or bars 25 and moved along the latter to any desired position, the needles being passed through portions of the ties or other articles, as indicated at 31, Fig. 3. As the needles may be of any length, depending on the diameter of the ring 12, several ties or other small articles may be fastened to each needle or bar.

With a view of preventing formation of holes through the article displayed, the needles or bars 25 are of comparatively small diameter but of sufficient rigidity to support the articles displayed thereon without bending or unduly straining the same. One needle after another may be swung upwardly and the desired articles attached thereto for display, each needle after having articles attached thereto being swung backwardly in its receiving depression in the upper surface of the disk-like member 15 formed on the hub. After the needles or bars 25 are all provided with articles for display, the lock disk or plate 19 may be swung forwardly and downwardly onto the disk-like member 15 of the hub and the hasp of the lock 28 passed through the loops 21, 22 of said disk-like member and the lock disk or plate, and when the hasp is locked into the body portion of the lock, removal of the articles displayed cannot take place. Any selected tie can be easily removed by unlocking the rack and swinging the lock disk or plate upwardly.

It is of course understood it is not essential that the rotatable portion of the rack, which may be referred to as the display head, is circular in formation, nor is it necessary that the exact details of construction shown and described be adhered to in order to stay within the bounds of our invention, as the principle involved may be retained, although the construction of parts are changed.

Having thus described our invention, what we claim is:—

1. A display rack having a rotatable head, a plurality of members on said head to which articles to be displayed may be secured, and a single locking device co-acting with said members for locking said members to prevent removal of articles displayed thereon.

2. A display rack comprising an upright or support, a head at the upper end of said upright or support, members on said head having pointed ends to penetrate through articles to be displayed, and means for locking said members to prevent the removal of the articles displayed.

3. A display rack comprising an upright, a head having an outlining member and a central member spaced from said outlining member, needles extending from one of said members to the other onto which articles to be displayed are to be passed from the pointed ends thereof, and means for locking the pointed ends of said needles to prevent removal of the articles displayed thereon.

4. A display rack comprising a member having two spaced parts, one of said parts surrounding the other, needles extending from the surrounding part to the other and having their pointed ends locked to said other part to prevent removal of articles displayed on said needles.

5. A display rack comprising a member having two spaced parts and a plurality of needles extending from one part to the other, one end of each needle being pivoted to one part and the other or pointed end thereof being locked to the other part to prevent the removal of articles displayed thereon.

6. A display rack having a head provided with an outlining part and a central part supporting said outlining part and spaced from the latter, one of said parts having depressions at intervals thereon, needles pivotally secured with one of their ends to the other part, and means for retaining and locking the pointed ends of said needles in said depressions.

7. A display rack comprising a stand, a head rotatable on said stand, and a plurality of pivoted needles having their points at their free ends to permit of forcing articles to be displayed over said pointed ends, means for enclosing the pointed ends of said needles, and means for locking said enclosing means to prevent removal of articles displayed on said needles.

8. A display rack comprising an upright, a head rotatable on said upright and comprising a hub having an axial bore to receive the upper end of said upright and a ring surrounding said hub and spaced therefrom, said ring being supported by said hub, needles pivotally connected to said ring and extending inwardly towards said hub, and means for locking the inner ends of said needles to said hub to prevent the removal of articles displayed on said needles.

9. A display rack comprising an upright having a rounded upper extremity, a head having a hub provided with an axial bore receiving the upper end of said upright and having the rounded extremity of said upright bearing against the inner or end wall of said bore, a ring surrounding said hub, arms connecting said hub with said ring, lugs on said ring arranged in pairs and having the pairs spaced at regular intervals around the same, a needle pivotally secured between each pair of lugs and extending inwardly to said hub, a locking element on

said hub for locking the inner ends of the needles thereto, and means for locking said locking element to said hub.

10. A display rack comprising an upright and a head rotatable on said upright, said head having a hub and a ring surrounding said hub and spaced therefrom, said ring being connected with said hub by means of arms and having lugs secured thereto, needles pivotally secured to said lugs and extending inwardly onto said hub, a lock plate bearing against the inner ends of said needles, and a lock for locking said lock plate to said hub.

11. A display rack comprising an upright and a head rotatable on said upright, said head having a hub provided with depressions around its margin on its upper side, a ring surrounding said hub and spaced therefrom, arms connecting said ring and hub, a lock plate pivotally secured to said hub and having marginal depressions alined with the depressions in said hub, needles secured to said ring and extending inwardly therefrom, said needles having their pointed inner ends in alined depressions of said hub and lock plate, and means for locking said lock plate to said hub.

12. A display rack comprising an upright and a head on said upright, said head having a hub provided with a disk-like member at its upper end providing a flat upper face and having depressions at the margin of said upper face spaced around the same, said disk-like member having a lug extending from its edge and a loop formed on its edge at a point diametrically opposite said lug, a lock plate having a lug pivotally connected to the lug of said disk-like member and having a loop alined with the loop of said disk-like member, said lock plate having depressions on its under side alined with the depressions in said disk-like member, a ring surrounding said hub and spaced therefrom, arms connecting said ring with said hub, needles pivotally secured to said ring and extending inwardly therefrom, said needles having their inner pointed ends positioned in alined depressions of said disk-like member and lock plate, and a lock passed through the loops of said disk-like member and lock plate.

In testimony whereof we affix our signatures.

MAX SMALL. [L. S.]
LOUIS SMALL. [L. S.]