Feb. 27, 1940. A. J. HAVLIS 2,191,693

TUMBLER RACK

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Fig. 1.

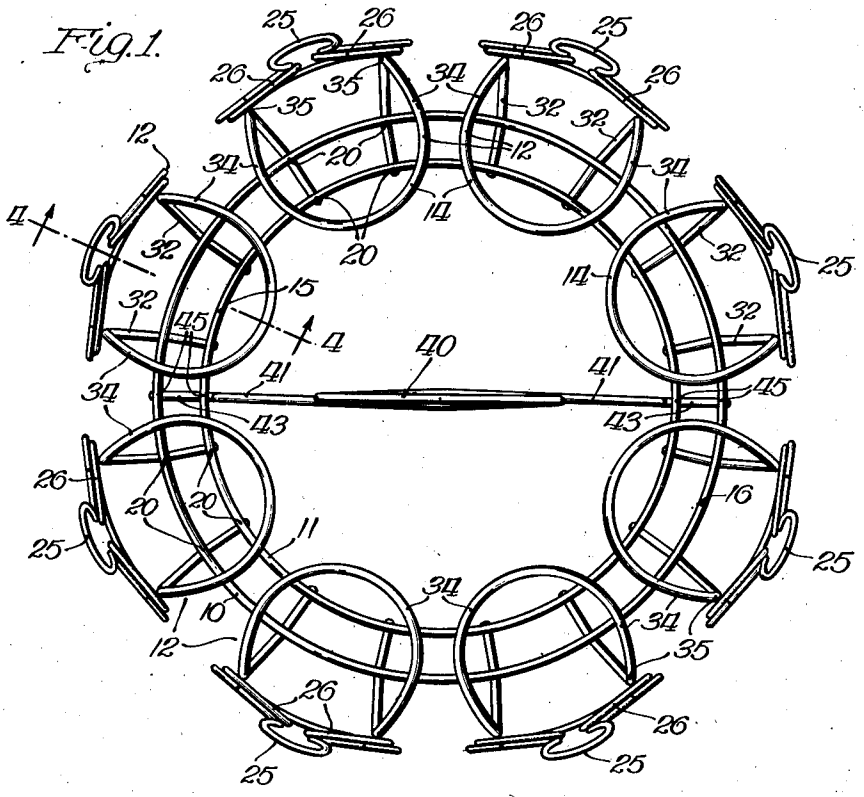
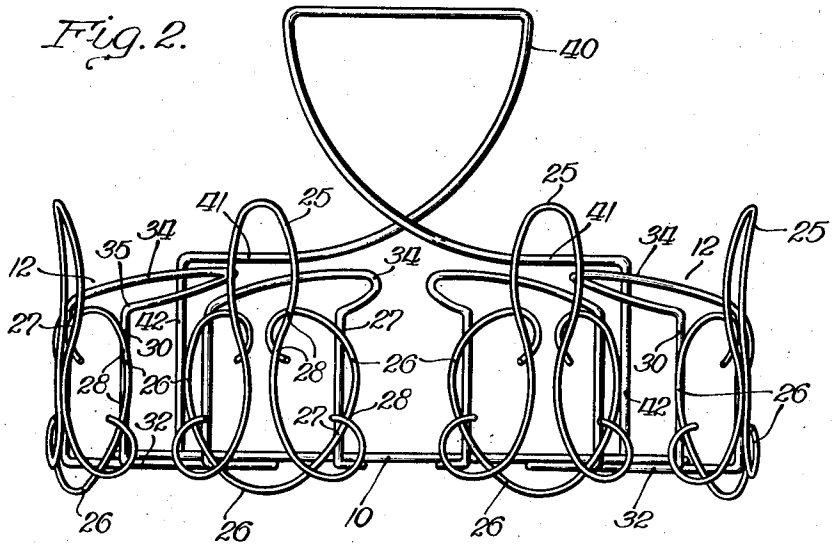


Fig. 2.



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Fig. 3.

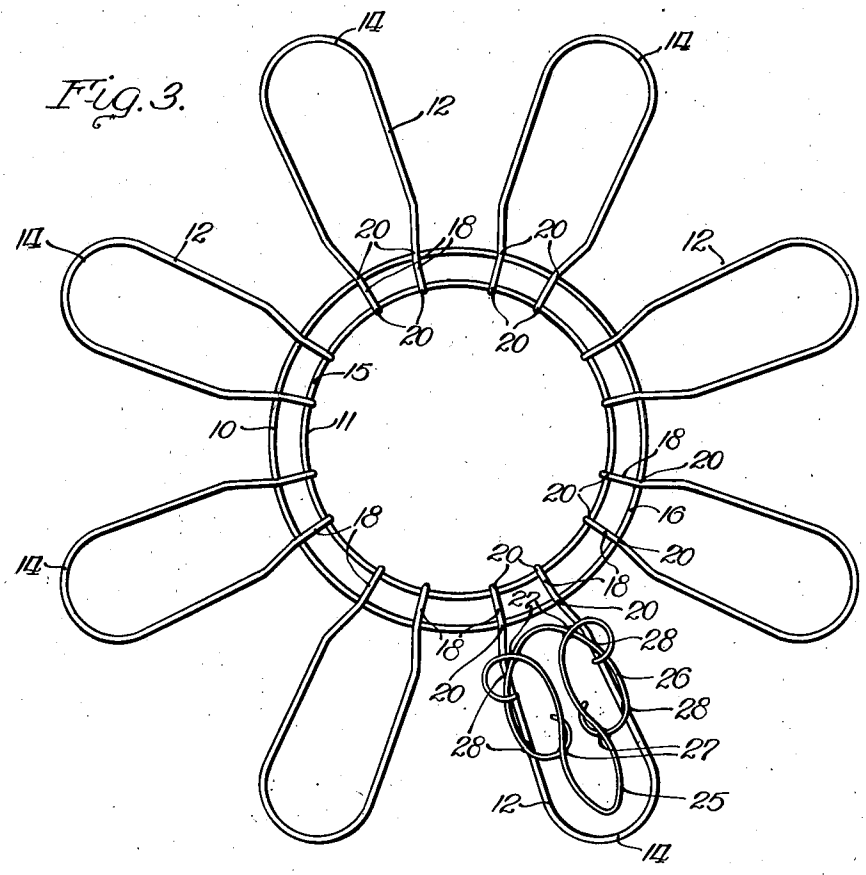


Fig. 4.

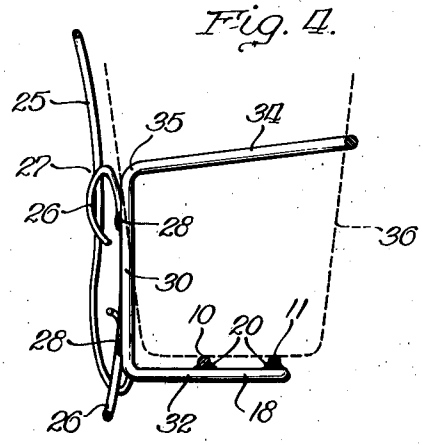


Fig. 5.

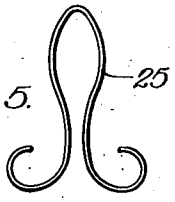
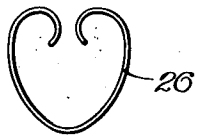


Fig. 6.



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UNITED STATES PATENT OFFICE

2,191,693

TUMBLER RACK

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Application July 17, 1939, Serial No. 284,930

3 Claims. (Cl. 211—74)

This invention relates to tumbler racks and similar articles, and has to do particularly with improvements in the construction of wire tumbler racks.

One of the main objects of the invention is to provide an improved tumbler rack having tumbler or glass holders for individually holding the glasses or tumblers in separated and individual relation; also against undue relative movement and against impact with each other.

It is also an object of the invention to provide a tumbler rack of simple and inexpensive construction and of pleasing appearance; also, a rack composed of relatively few parts adapted for convenient assembly, and an improved method of making racks of the character described.

Further objects and advantages of the invention will appear from the following detailed description taken in connection with the accompanying drawings, in which:

Figure 1 is a top plan view of a tumbler rack embodying the present invention;

Figure 2 is a side view of the rack shown in Figure 1;

Figure 3 is a bottom plan view showing, in the flat, the supporting rings constituting the base of the rack, the individual tumbler or glass holders, and one of the front parts for the tumbler holders;

Figure 4 is a fragmentary section taken on the line 4—4 of Figure 1; and

Figures 5 and 6 show the two members which constitute, jointly, one of the front parts for the tumbler holders.

Referring now in detail to the drawings, the rack selected for illustration comprises two concentric wire rings 10 and 11 which, jointly, constitute the base of the rack. The base, which determines the shape of the rack, is shown of round or circular form, but it is to be understood that it may be of square, rectangular, octagonal, or of any other suitable or preferred form.

The individual tumbler or glass holders 12 are formed of wire of suitable gauge and, in the flat, are of generally U-shaped form, with the connecting portions between the legs of the U rounded at 14, although this, of course, may vary. The ends 15 and 16 of the wire base rings 10 and 11 are preferably not welded or otherwise secured together, but are merely brought into abutting relation, being held together by the tumbler or glass holders, although this, too, may vary.

In forming the rack, the wire base rings 10 and 11 are placed, for example, in a jig in the desired concentric relation. The jig is preferably grooved or formed to receive and hold the rings 10 and 11 in the desired relation, and is also preferably grooved or formed to receive and hold in the flat the generally U-shaped tumbler holders 12 with the free ends 18 of the legs thereof extending across and disposed on the rings 10 and 11 as shown in Figure 3. The free ends 18 of the legs of the holders 12 are shown as brought closer together than the outer portions of the legs of the holders, which is preferable, although this may vary.

Then, with all of the holders 12 in position upon the base rings 10 and 11 as shown in Figure 3, the free ends 18 of the legs of the holders 12 are welded to the wire rings 10 and 11 at 20. The welding of all of the holders to the base of the rack at the points 20 is preferably accomplished by a single welding operation. By welding the ends 18 of one tumbler holder 12 to opposite sides of each joint 15 and 16, the ends of the rings 10 and 11 are held together without welding the same.

With the base rings 10 and 11 and the glass holders 12 still in flat relation in the jig or fixture, and welded together, the wire members 25 and 26 (Figures 5 and 6) are placed one upon the other and in the jig in position upon the holders 12, as shown in Figure 3. Then, with all of the members 25 and 26 in position, these members are welded together and to the sides of the holders 12 as indicated at 27 and 28, respectively. The welding at all of the points 27 and 28 is preferably accomplished by a single welding operation.

The glass holders are then formed over a suitable fixture, die or jig to bend or bring the intermediate portions 30 of the holders (Figure 4) into upright position generally normal to the base portion 32 of the holders from approximately the inner or lower ends of the front forming members 25 and 26, and to bend or bring the outer portions 34 of the holders 12 (Figure 4) inwardly generally normal to the upright intermediate portions 30 and generally parallel to the base of the rack from the bends at 35.

In use, each holder 12 individually supports a glass or tumbler 36 substantially as indicated in dotted lines in Figure 4. The glasses 36 are thus held in separated and individual relation; also against undue relative movement and against impact with each other. The holders 12 are preferably formed of hard wire with enough temper—that is, with enough springness—firmly to support the glasses, and the sides of the holders 12 are adapted to be spread or contracted prop-

erly to conform to the glasses or tumblers so that they will be held against undue movement in the holders.

The front members 25 and 26 form the front parts of the respective holders 12, closing the upright intermediate portions 30 of the holders against displacement of the tumblers or glasses therefrom. These front forming members are shaped or designed to give the rack a pleasing appearance. It is to be understood that the particular shapes or designs of the front forming members 25 and 26, as shown in the drawings, are merely illustrative, and that front forming members of other shapes or design are contemplated within the scope of the present invention.

Where the rack is square, rectangular, octagonal, or of other polygonal form, the glass holders 12 will be arranged along and secured to the flat sides of the base, and in the case, for instance, of an oval or other form of rack, the holders will be appropriately arranged about and secured to the base thereof.

The wire handle 40 has a generally looped handle part disposed above the axis of the rack, and the diverging lower ends of the intersecting portions of the handle extend out laterally at 41. The outer ends of these laterally extending portions 41 are bent to extend down vertically at 42 between a pair of holders 12 at diametrically opposite sides of the rack. The lower ends of the vertically extending handle portions 42 are turned out laterally at 43 beneath the wire base rings 10 and 11, and are welded to the wire base rings at 45. The design of the handle shown blends in well with the design of the remainder of the rack, but it is to be understood that handles of other shapes and designs are contemplated within the scope of the present invention.

The lower ends of the front members 26 preferably extend below the base rings 10 and 11 and provide supporting feet for supporting the base rings in elevated position, as shown in Figure 2.

I do not intend to be limited to the precise details shown or described.

I claim:

1. A tumbler rack comprising a pair of concentric wire rings forming a base, a plurality of individual wire tumbler holders of generally U-shaped form with the free ends of the legs of the U-shaped holders disposed across said rings and welded thereto, the intermediate portions of said U-shaped holders being formed to upright position substantially normal to said base, the upper ends of said U-shaped holders being generally rounded and formed to position substantially parallel to said base and spaced upwardly above the base, and wire front parts disposed across the opposite sides of the upright intermediate portions of said holders and welded thereto.

2. A tumbler rack comprising a base, a plurality of individual wire tumbler holders of generally U-shaped form with the free ends of the legs of the U-shaped holders disposed across said base and welded thereto, the intermediate portions of said U-shaped holders being formed to upright positions substantially normal to said base, the upper ends of said U-shaped holders being generally rounded and formed to positions substantially parallel to said base and spaced upwardly above the base and front parts disposed across the opposite sides of the intermediate upright portions of said holders and welded thereto.

3. A tumbler rack comprising a base, a plurality of individual wire tumbler holders of generally U-shaped form with the free ends of the legs of the U-shaped holders disposed across said base and welded thereto, the intermediate portions of said U-shaped holders being formed to upright positions substantially normal to said base, the bights at the upper ends of said U-shaped holders being formed to positions substantially parallel to said base and spaced upwardly above the base, and the upright intermediate portions of said holders having portions constituting unitary parts of said individual tumbler holders and of a character to prevent displacement of the tumblers from the upright intermediate portions of the holders.

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