Nov. 11, 1941. H. J. WATRAL 2,262,597

TUMBLER RACK AND CARRIER

Filed March 23, 1940

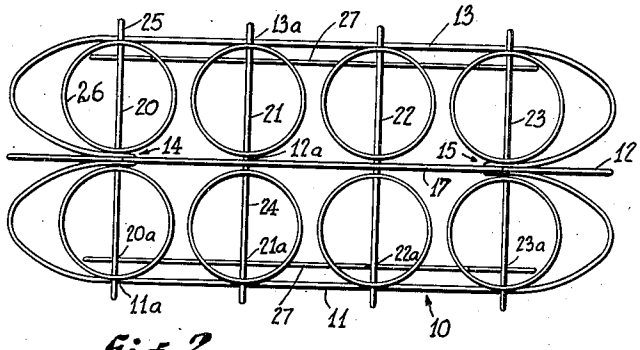


Fig. 2.

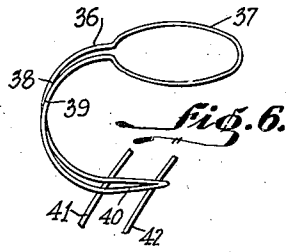


Fig. 6.

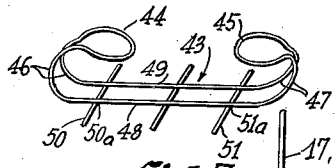


Fig. 7.

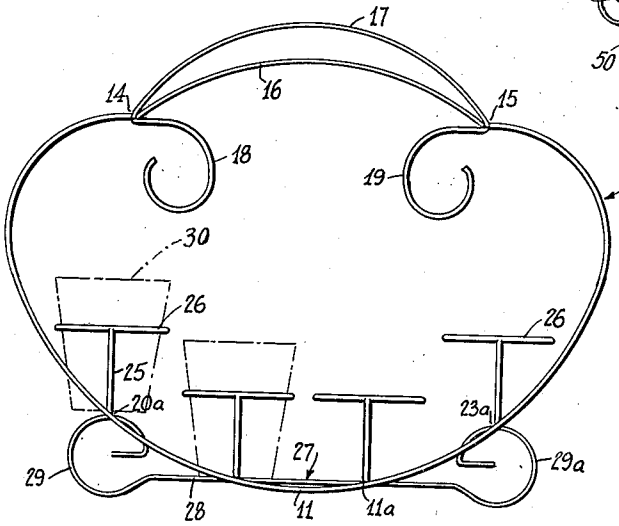


Fig. 1.

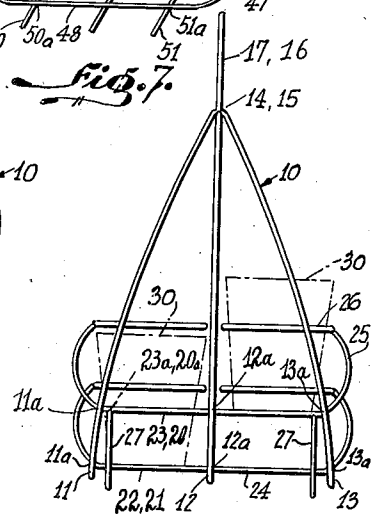


Fig. 3.

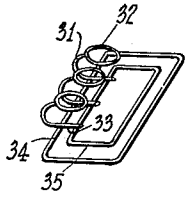


Fig. 8.

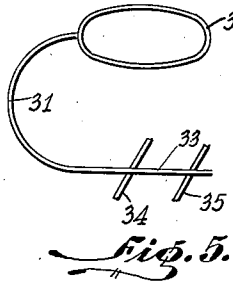


Fig. 5.

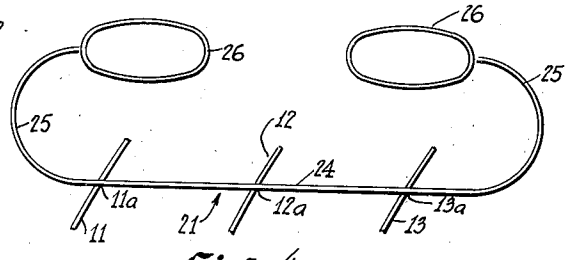


Fig. 4.

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TUMBLER RACK AND CARRIER

Henry J. Watral, Queens Village, N. Y.

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5 Claims. (Cl. 65—53)

This invention relates to tumbler carriers and racks, and has for its main object to provide a device of this character which will have a novel construction whereby it will be simpler and easier to manufacture and still be more efficient in use than devices at present used for such purpose.

Another object of this invention is to provide a circular, ring like, retaining member for each independent tumbler, separating the tumblers from one another, said retaining members being arranged at the upper ends of upright carrying elements proper, the lower ends of said carrying elements being secured to an appropriate base in a very simple manner.

Still a further object of this invention is to provide a device as characterized hereinbefore, all of the members and parts of which may be made of appropriate metal wire with simple operations for forming, assembling and securing together the parts thereof.

Still a further object of this invention is to provide a device of this type in which one carrier element proper may have two upright end portions and may carry two opposingly placed circular retaining members thereon.

A further object of my invention is to provide a wire tumbler carrier and rack as characterized hereinbefore, in which the carrier elements proper are used to strengthen and reinforce the base, and inter-connect its parts, and wherein leg members may be employed inter-connecting the carrier elements proper and further supporting them.

Still a further object of this invention is to provide a device of this nature in which the base is formed into a carrier handle or grip.

Still other objects of this invention will be apparent as the specification of the same proceeds.

In the drawing forming a part of this specification and accompanying the same:

Fig. 1 is a front elevation of the preferred embodiment of my novel tumbler carrier and rack;

Fig. 2 is a plan view thereof, and

Fig. 3 is an end elevation;

Fig. 4 is a fragmentary perspective view showing one carrier element proper with two opposingly placed retaining rings at its two ends;

Fig. 5 shows a modification of the carrying element proper being provided with one retaining ring and with a lower portion secured to an appropriate base;

Figs. 6 and 7 show modified forms of the carrying elements proper and the retaining members on their ends;

Fig. 8 indicates in a diagrammatic manner a modified embodiment of a tumbler carrier and rack constructed according to the principles of my invention.

Referring now to the drawing more in detail by characters of reference, and particularly to Figs. 1 to 3, the numeral **10** indicates a preferred form of my novel tumbler carrier and rack in general. The base of my tumbler carrier and rack in this embodiment is formed by three wires **11**, **12** and **13**, each of said wires preferably being shaped as a portion of an ellipse, the lower part thereof forming the base proper and being spaced apart from one another as best shown in Fig. 3, the two sides being bent upwardly towards each other and meeting at the points **14** and **15** respectively. At these points, the upper ends of the base members are secured together as by welding, and two appropriate handle or grip wires proper **16** and **17** may be secured on the base members **11**, **12** and **13** at their meeting points **14** and **15**, as best shown in Fig. 1, said wire grip members **16** and **17** being of circular or elliptical curvature, one above the other and preferably in one vertical plane.

Downwardly and outwardly curved decorative finishing wire members **18** and **19** may be further secured to the members described hereinbefore at the points **14** and **15** preferably by welding, or said decorative finishing members may be made integral with the central base wire member **12**.

Four carrier elements proper **20**, **21**, **22** and **23**, may be secured on the lower portions of the base wire elements **11**, **12** and **13** as indicated at **11***a*, **12***a* and **13***a*, respectively, bridging the same and being transverse to their planes. Each of said carrier elements proper has a straight lower supporting member **24** bridging the lower portions of the elliptic base wires **11**, **12** and **13**, and resting thereon, each end of said supporting portion **24** being turned upwardly in a curved manner forming a single upright portion **25**, and a retaining ring wire member **26** is secured at the upper end of each upright portion **25**, said circles being substantially horizontal when my carrier and rack is resting on a horizontal support, and said supporting wires **24** of the carrier element also generally being parallel to the planes of the circles **26**.

On account of the upward bending of the main wire elements **11**, **12** and **13**, the outermost carrier elements **20** and **23** and their retaining rings are in a higher position than the two intermedi-

ate carrier elements proper **21** and **22** and their respective retaining rings.

Two leg members, generally indicated by the numeral **27** are also added to my device, each having a central straight normally horizontal portion **28** secured to the straight transverse portions **24** of the respective two intermediate carrier elements proper **21** and **22**, as at **21***a* and **22***a*, the outer ends of each of said legs **27** being bent, first downwardly then upwardly and inwardly in a rounded ornamental manner, providing generally circular leg proper portions **29** and **29***a*, and the respective outermost carrier elements proper **20** and **23** are secured on said circular leg proper portions **29** and **29***a* as at **20***a* and **23***a*.

In Fig. 4 I show in a perspective view on an enlarged scale, one carrier element proper as, for instance, the one indicated by the numeral **21**, it being understood that all the carrier elements here shown are identical. A portion of the base wires **11**, **12** and **13** is also indicated.

The position of the tumblers when in my carrier or rack is indicated in an imaginary manner by the dot and dash lines **30** in Figs. 1 and 3.

In Fig. 5 I indicate in a general manner, the underlying principle of my device which is that an upright member **31** carries a retaining circular member **32** at its upper end for the tumblers and its lower end **33** is bent underneath of and spaced apart from said retaining circle **32** and may act as a support for the tumbler **30** at the same time keep the mentioned carrier element proper secured on appropriate base wires **34** and **35**. In this embodiment, a carrier element proper **33** carries only one retaining member **32** and this form of the device may be employed in combination with a great number of types possible base wire members **34** and **35**, which may be formed into circles, ovals, oblongs, polygons, etc., in one or more planes and in other geometrical formations. Of course, they may not be bent upwardly to form grip members, and any other appropriate means, well known in this art, may be provided for them as grips and handles.

An oblong tumbler carrier rack of this last mentioned type, and constructed according to my invention is indicated in a diagrammatic manner in Fig. 8. In this embodiment, base wires **34** and **35** are formed into oblongs and the carrier elements proper **33** are secured across said wires around the circumference of the oblong.

In Fig. 6 I indicate a still further modification of the retaining member and carrying element proper of my device in which a single wire **36** is bent into a combination loop, having a top portion **37** forming the circular retaining member, two downwardly and outwardly bent upright portions **38** and **39** and a lower preferably wedge shaped loop portion **40** bent inwardly underneath the plane of the ring **37** and spaced apart therefrom, said lower portion **40** being secured on any appropriate base, as on wires **41** and **42**.

In Fig. 7, a still further modification of the retaining member and carrier element proper is indicated in which, again, a single piece of wire **43** is bent in a combination loop having two oppositely pointing retaining circles **44** and **45** at its upper ends, each being carried by a pair of upright branches **46** and **47**, respectively, said upright branches being inter-connected by the two carrier elements proper **48** and **49**. Any appropriate base wires **50** and **51** may be provided in a tumbler carrier or rack in which my carrier and retaining element proper is to be employed and the carrier elements proper **48** and **49** may be secured to said wires **50** and **51**, as indicated at **50***a* and **51***a*.

It will be understood that changes and variations may be made in the elements, in the details of construction and combination of my device, and I reserve my rights to all such changes and variations which are within the spirit of this specification and the scope of the claims hereunto appended.

One of such changes, for instance, may consist in replacing the single wire **24** for the tumbler retaining rings **26** in the embodiment of my invention, as shown in Figs. 1 to 3, and particularly in Fig. 4, by two similar wires **24** set side by side in a spaced apart relation and in parallelism with one another. This construction will give a stronger carrying wire **24**, at the same time additionally reinforcing the base wires **11** to **13**.

What I claim as new, is:

1. In a tumbler carrier and rack, a wire base, a wire carrier element proper secured on said base, the two ends of said wire carrier element proper being bent upwardly, a retaining ring at each end of said carrier element proper, said retaining rings being substantially above respective portions of said base, the spaces between said base and said rings being left free, said carrier element proper and said rings being formed of one piece of wire, said wire for said carrier element and rings forming a loop, the two longitudinal branches thereof being secured across said wire base and the two ends forming two upright branches terminating in circular portions forming said retaining rings.

2. In a tumbler carrier and rack, two wires in parallelism to form a base, and loop shaped wires secured on said base to form tumbler carriers, and each of said loops being formed with an upper ring shaped portion, two downwardly and laterally outwardly bent branches continuing said ring shaped portion and two lower terminating branches meeting in a wedge shaped point and being secured over and across said base wires.

3. In a tumbler carrier and rack, a base formed of longitudinally set wires, and carrier wires proper secured on said base transversely to said base wires, upwardly turned ends for said carrier wires, having retaining rings thereon adapted to receive for support a tumbler, a glass or the like, both ends of said base wires being turned upwardly, and meeting in one point, at each end, and a connecting element between said two end points to form a handle or grip for the device.

4. In a tumbler carrier and rack, a base formed of longitudinally set wires, and carrier wires proper secured on said base transversely to said base wires, upwardly turned ends for said carrier wires, having retaining rings thereon adapted to receive for support a tumbler, a glass or the like, said base wires gradually nearing each other at their ends, and their ends being united into two end points for the device.

5. In a tumbler carrier and rack, a base formed of longitudinally set wires, and carrier wires proper secured on said base transversely to said base wires, upwardly turned ends for said carrier wires, having retaining rings thereon adapted to receive for support a tumbler, a glass or the like, said base wires gradually rising at their ends and nearing each other, forming at their ends two elevated meeting points.

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