March 17, 1925.

1,530,175

C. T. HATCH, JR

CANNING RACK

Filed June 5, 1924

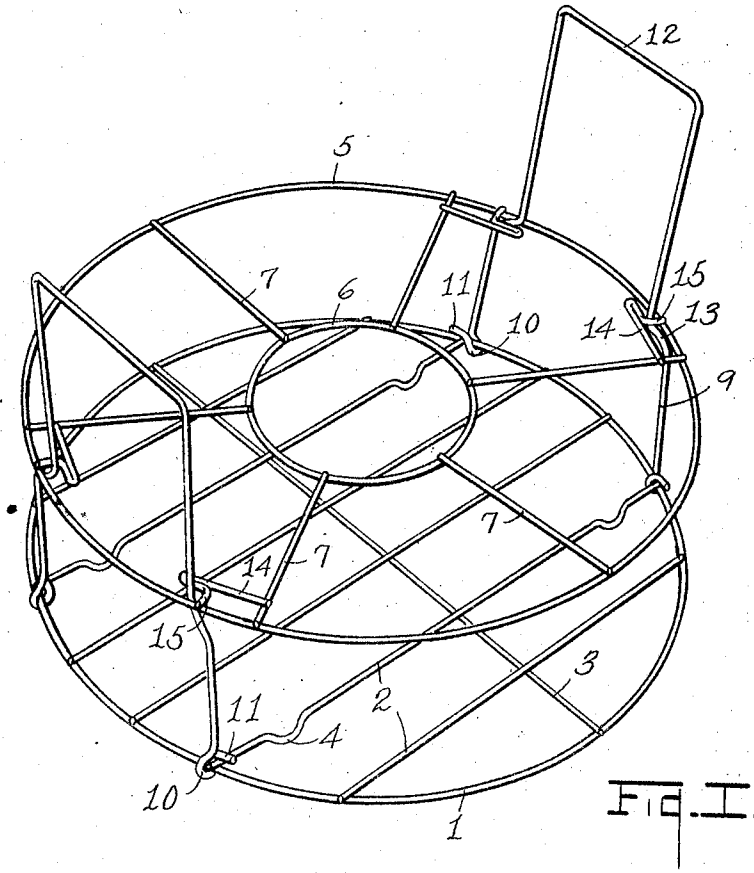


Fig. I.

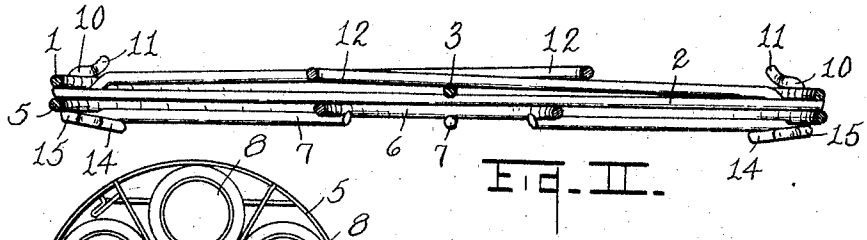


Fig. II.

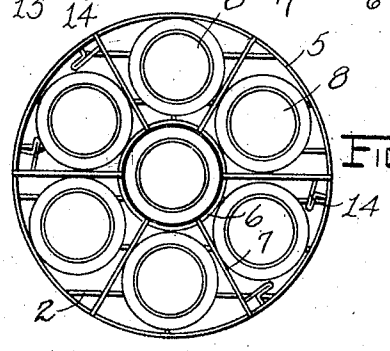


Fig. III.

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Patented Mar. 17, 1925. 1,530,175

UNITED STATES PATENT OFFICE.

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CANNING RACK.

Application filed June 5, 1924. Serial No. 718,060.

To all whom it may concern:

Be it known that I, CHARLES T. HATCH, Jr., a citizen of the United States, residing at Albion, county of Calhoun, State of Michigan, have invented certain new and useful Improvements in Canning Racks, of which the following is a specification.

This invention relates to improvements in canning racks.

My improved rack is particularly adapted for use in canning fruit by what is known as the "cold pack" process.

The main objects of this invention are:

First, to provide an improved canning rack which is of large capacity relative to its external dimensions.

Second, to provide an improved canning rack which may be collapsed for storage or shipment and at the same time may be quickly erected and when erected the parts are securely retained in their erected position.

Further objects, and objects relating to structural details, will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification. The invention is clearly defined and pointed out in the claims.

A structure which is a preferred embodiment of my invention is clearly illustrated in the accompanying drawing, forming a part of this application, in which:

Fig. I is a perspective view of my improved canning rack in erected position.

Fig. II is a horizontal section with the parts in collapsed position, the base being superimposed upon the retaining frame.

Fig. III is a plan view, the retaining frame supports being omitted for convenience in illustration, a plurality of cans being indicated within the compartments.

In the drawing similar reference characters refer to similar parts throughout the several views.

Referring to the drawing, my improved canning rack comprises a base 1 which, in the structure illustrated, consists of the border wire 1 and cross wires 2 and 3 secured thereto. Certain of the cross wires are downwardly offset at 4 to provide legs.

I provide an upper or retaining frame which consists of the outer or border ring 5, the inner ring 6 and the radially disposed partition wires 7. This provides a central compartment adapted to receive a can and an annular series of surrounding compartments adapted to receive cans 8, as illustrated in Fig. III.

This retaining frame is removably supported upon the base by means of bail-like supports 9 which have eyes 10 at their lower ends embracing the border wire, forming a pivotal connection for the supports to the base. The ends of the supports are extended into fingers 11 constituting stops for limiting the inward movement of the supports, these supports constituting handles 12. The supports are inwardly offset providing shoulders 13.

The supports are arranged within the border ring 5 and are engaged by the members 14 formed of pieces of wire folded upon themselves and having laterally turned ends 15, thus providing a hook-like member adapted to engage with the shoulders 13 of the supports. These support engaging members are arranged within the border ring with the laterally turned ends 15 secured to the border wires and the other ends secured to adjacent radial partition wires 7. The support members being spaced as shown permit the cans to project between the same, as illustrated in Fig. III, thus economizing on space and permitting the compartments in which the retaining members are arranged to receive full sized cans.

The structure illustrated is designed to receive seven cans.

The structure may be collapsed by removing the retaining frame and swinging the supports below the base where it may be superimposed upon the retaining frame, as shown in Fig. II.

When erected the structure is strong and rigid and very convenient to use.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. In a canning rack, the combination of a base, a retaining frame comprising a border ring and an inner ring with radially disposed partition wires connecting said rings and providing a central and an annular series of can compartments, bail-shaped supports constituting handles pivotally mounted on said base and having inward offsets providing supporting shoulders, and

support engaging members disposed within said border ring in spaced oppositely facing pairs to engage said support shoulders, said engaging members being formed of folded wire having one end disposed laterally and secured to the border ring and the other end secured to adjacent partition wires.

2. In a canning rack, the combination of a base, a retaining frame comprising a border ring and radially disposed partition wires, shouldered supports on said base disposed within said border ring, and support engaging members disposed within said border ring in spaced oppositely facing pairs to engage said support shoulders, said engaging members being formed of folded wire having one end disposed laterally and secured to the border ring and the other end secured to adjacent partition wires.

3. In a canning rack, the combination of a base, a retaining frame comprising a border ring and an inner ring with radially disposed partition wires connecting said rings and providing a central and an annular series of can compartments, bail-shaped supports constituting handles pivotally mounted on said base and having inward offsets providing supporting shoulders, and support engaging members disposed within said border ring and spaced to permit a can to project between them.

4. In a canning rack, the combination of a base, a retaining frame comprising a border ring and radially disposed partition wires, supports on said base disposed within said border ring, and support engaging members disposed within said border ring and spaced to permit a can to project between them.

In witness whereof I have hereunto set my hand.

CHARLES T. HATCH, JR. [L. S.]