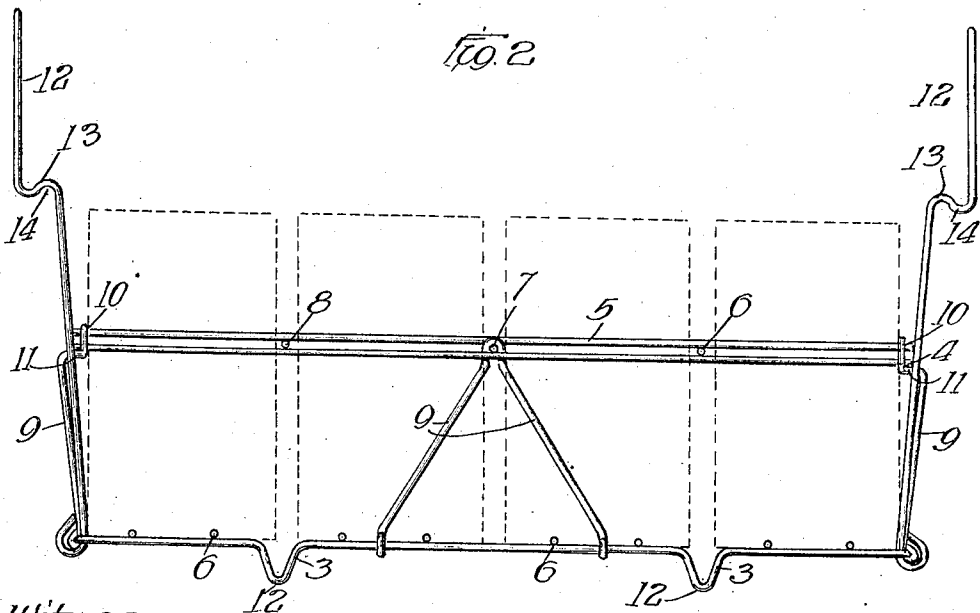
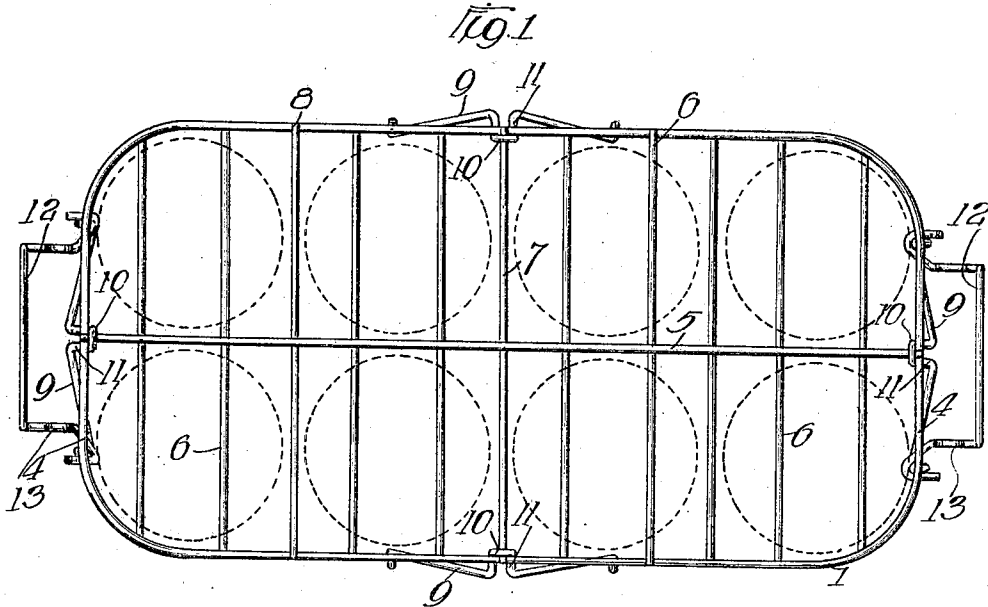


F. S. SPOHR.
 COLLAPSIBLE RACK FOR BOTTLES AND JARS.
 APPLICATION FILED JULY 11, 1919.

1,326,003.

Patented Dec. 23, 1919.
 2 SHEETS—SHEET 1.



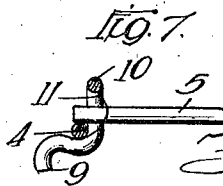
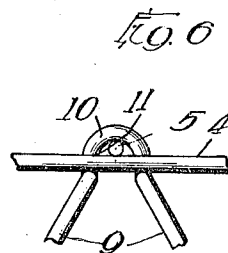
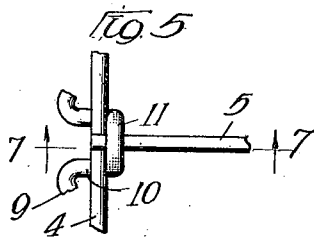
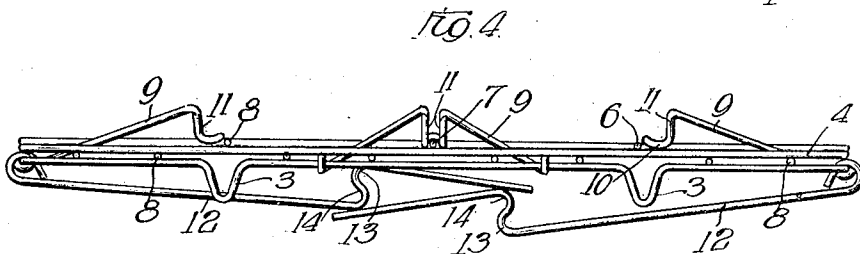
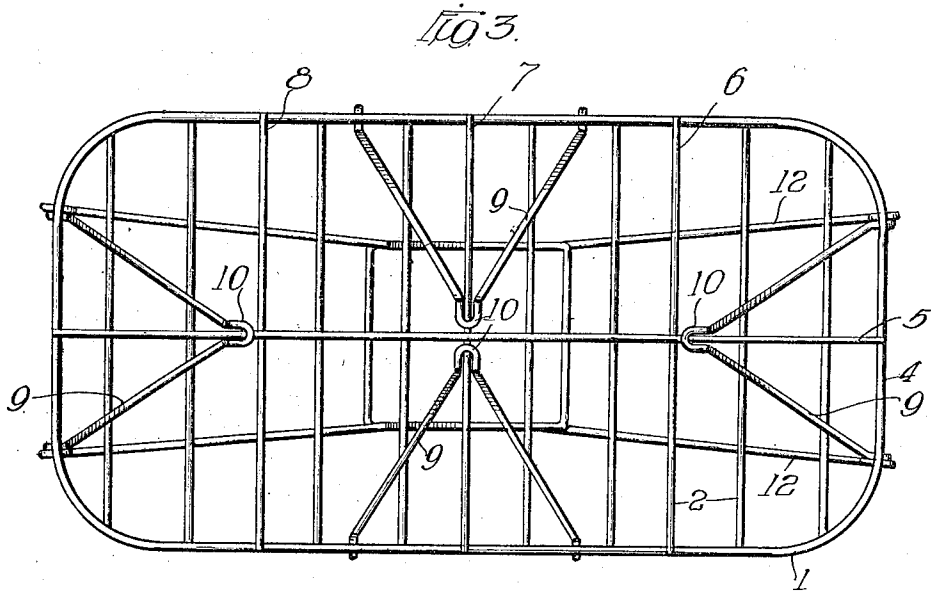
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 W. P. Kilroy

Inventor:
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UNITED STATES PATENT OFFICE.

FRANK S. SPOHR, OF LA FAYETTE, INDIANA, ASSIGNOR TO BARBEE WIRE & IRON WORKS, OF LA FAYETTE, INDIANA, A CORPORATION OF INDIANA.

COLLAPSIBLE RACK FOR BOTTLES AND JARS.

1,326,003.

Specification of Letters Patent.

Patented Dec. 23, 1919.

Application filed July 11, 1919. Serial No. 310,219.

To all whom it may concern:

Be it known that I, FRANK S. SPOHR, citizen of the United States, residing at La Fayette, in the county of Tippecanoe and State of Indiana, have invented certain new and useful Improvements in Collapsible Racks for Bottles and Jars; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to collapsible racks, similar to bottle-baskets or carriers, and which are especially adapted for use in preserving fruits, vegetables and the like. It has for its object to provide a simple and efficient device of this character which may be readily collapsed and set up for use, and which, when in the latter position, affords a very strong and convenient tray for preserve jars and the like.

The particular object of this invention is to provide a device of the character specified in which the parts become firmly interengaged when the device is set up for use, whereby accidental collapsing thereof is avoided.

The invention consists in the features of constructions and combinations of parts hereinafter fully described and particularly claimed.

In the accompanying drawings illustrating a suitable embodiment of invention:

Figure 1 is a top plan view of a collapsible tray constructed in accordance with the invention showing the same in position for use.

Fig. 2 is a side elevation of the same in said position.

Fig. 3 is a top plan view of the device showing the same in its collapsed position.

Fig. 4 is a side elevation thereof in said position.

Figs. 5 and 6 are respectively a fragmentary detail plan view and a side elevation of one of the locking elements of the device.

Fig. 7 is a fragmentary detail section on the line 7-7 of Fig. 5.

The device comprises a substantially oblong frame or base member which consists of a border 1 wire spanned by a series of transverse wires 2, all of which are preferably electrically welded together at their meeting points.

The border wire 1 is bent at intervals to provide a series of downwardly extending supporting legs 3, as more particularly shown in Figs. 2 and 4.

Associated with the member 1 is a similar member which comprises the border wire 4 of the same shape and size as the border wire 1 and which is spanned by a central longitudinal wire 5 and three transverse wires 6, 7 and 8, all of which are preferably electrically welded at their ends to the border wire 4, and are similarly welded between their ends to the longitudinal wire 5. The member 4 thus provides eight substantially rectangular openings through each of which a preserve jar or similar receptacle may project, the latter being adapted to rest upon the base or supporting member 1. Firmly secured to the border wire 1 of the supporting member is a plurality of V-shaped elements 9, the ends of the arms of which are looped about said border wire and the apex or angle portions of which provide loops 10 which are laterally offset from the plane of the flaring legs thereof as more particularly shown in Figs. 5, 6, and 7. The longitudinal wire 5 passes through two of the said elements 9 and the other two of said elements 9 pass over the transverse wire 7 of the member 4, the latter being thus held against separation from the supporting element at all times. When the device is collapsed, as shown in Figs. 3 and 4, the elements 9 lie substantially flat upon the elements 1 and 4; but when the device is in position for use, as shown in Figs. 1 and 2, the elements 9 are turned through an arc of substantially ninety degrees so that the supporting shoulders 11 thereof, which are disposed between the upper ends of the legs, and the loop elements 10 thereof, pass underneath the border wire 4, thereby obviously supporting the latter at a given distance from or elevation above the supporting element 1.

The shoulders 11 are preferably ogee curved so that they must be sprung under border wire 4 and are thus practically latched or locked in position to prevent the same from accidental turning back of their collapsed positions.

Pivotally secured to the outer end portions of the border wire of the member 1, and preferably contiguous to the loops of the elements 9 about said border wire, are two

handle members 12, each of which is substantially U-shaped in form and the legs of which are bent between their ends in ogee curved formations 13 to provide what may be termed loops 14 which are adapted to receive the upper edges of the walls of a boiler or kettle, such as is used by house wives in preserving fruits and vegetables, to support the device at an elevation above the bottom thereof, and so that the contained jars or other receptacles will be disposed in position to enable the same to be readily removed and replaced or otherwise handled.

When the device is collapsed, as shown in Fig. 4, the said handle members 12, will be turned to lie underneath the supporting element or member 1, as shown in Fig. 4.

While I have shown the preferred embodiment of the invention in the accompanying drawings, it will be understood that such embodiment may be changed and varied in details of constructions without departing from the invention as defined in the appended claims.

I claim as my invention:

1. A collapsible rack comprising a skeleton supporting element and a companion element of similar shape and size, the latter comprising a peripheral wire and a plurality of transverse and longitudinal wires spanning said peripheral wire and secured at their ends thereto and providing openings through which receptacles resting on the supporting element are adapted to project, a plurality of substantially V-shaped supports pivotally secured at the ends of their arms to the peripheral portion of the supporting element and through which a transverse and a longitudinal wire of the

companion element pass for preventing complete separation of said elements, the elbow portions of said supports provided with shoulders upon which the peripheral wire of the companion element is adapted to rest and presenting loops coacting with said shoulders for holding the said peripheral wire engaged with the latter whereby relative movement of all of said relatively movable parts is prevented.

2. A collapsible rack comprising a skeleton supporting element and a companion element of similar shape and size, the latter comprising a peripheral wire and a plurality of transverse and longitudinal wires spanning said peripheral wire and secured at their ends thereto and providing openings through which receptacles resting on the supporting element are adapted to project, a plurality of substantially V-shaped supports pivotally secured at the ends of their arms to the peripheral portion of the supporting element and through which a transverse and a longitudinal wire of the companion element pass for preventing complete separation of said elements, the elbow portions of said supports provided with shoulders upon which the peripheral wire of the companion element is adapted to rest and presenting loops coacting with said shoulders for holding the said peripheral wire engaged with the latter whereby relative movement of all of said relatively movable parts is prevented, the said shoulders being ogee curved and adapted to be sprung into engagement with said peripheral wire of said companion element.

FRANK S. SPOHR.