J. M. RICKARD.

FOLDING SUPPORT FOR STRAINERS, &c.

APPLICATION FILED JAN. 15, 1918.

1,278,385. Patented Sept. 10, 1918.

Fig. 1.

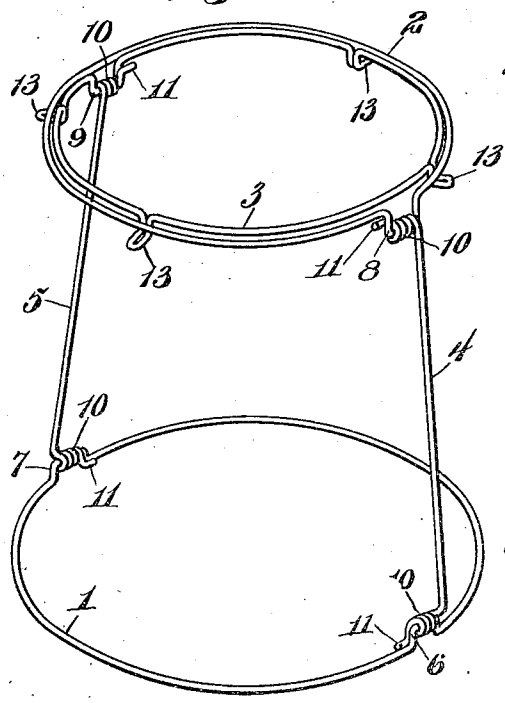


Fig. 2.

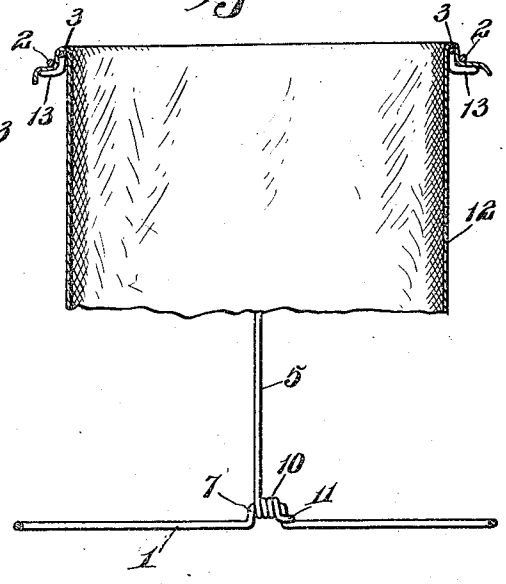


Fig. 3.

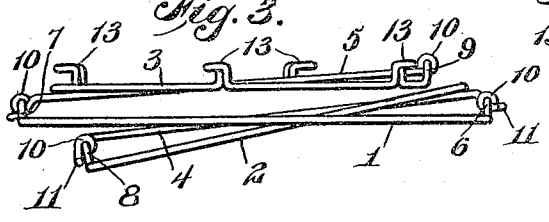
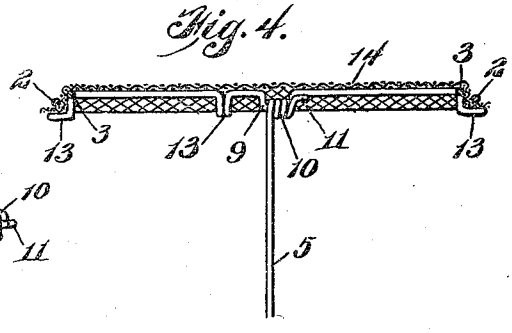


Fig. 4.



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FOLDING SUPPORT FOR STRAINERS, &c.

1,278,385. Specification of Letters Patent. Patented Sept. 10, 1918.

Application filed January 15, 1918. Serial No. 211,949.

To all whom it may concern:

Be it known that I, JARED M. RICKARD, a citizen of the United States, residing at Pasadena, in the county of Los Angeles and State of California, have invented new and useful Improvements in Folding Supports for Strainers, &c., of which the following is a specification.

This invention relates to a folding frame or support for strainers, etc., the primary object of the invention being to provide a support for holding coffee straining sacks or other articles while in use, which support may be readily and conveniently folded in close compass for storage or transportation.

A further object of the invention is to provide a folding frame or support of the character described which is simple of construction, reliable and efficient in action, and which embodies a minimum number of parts adapting the device to be economically manufactured.

The invention consists of the features of construction, combination and arrangement of parts, hereinafter fully described and claimed, reference being had to the accompanying drawing, in which:—

Figure 1 is a perspective view of the folding frame or support as set up for use.

Fig. 2 is a vertical transverse section through the same, showing the mode of use of the device in supporting a cloth strainer or the like.

Fig. 3 is a side view of the device in folded or collapsed condition.

Fig. 4 is a transverse section through the top of the device, showing another use of the invention.

Referring now more particularly to the drawing, my improved folding frame or support comprises a frame structure of substantially frusto-conical form. This frame structure consists of a bottom ring 1 formed of wire, and a pair of top rings 2 and 3, also formed of wire, and a pair of diametrically disposed standards or uprights 4 and 5 respectively connecting the said top rings 2 and 3 with the bottom ring 1.

As shown, the bottom ring 1 is provided at diametrically opposite sides with upstruck U-shaped keepers 6 and 7, while the rings 2 and 3 are respectively provided with similarly shaped down-bent keepers 8 and 9. The uprights or standards 4 and 5 are also formed of wire, and said standards have their end portions coiled to provide pivoted sleeves or eyes 10 and terminal stop arms 11, the sleeves 10 of the upright 4 pivotally engaging the keepers 6 and 8, while the sleeves or eyes of the upright 5 pivotally engage the keepers 7 and 9.

The rings 2 and 3, being formed of spring wire, are capable of expanding and contracting, and the ring 3 is made of slightly smaller diameter than the ring 2 or is adapted to be expanded so as to lie upon the interior thereof, whereby the ring 3 is adapted to serve as a locking member to hold the frame elements in set up condition and also as a clamping member to support a strainer sack 12 or the like, as hereinafter described. The ring 3 is formed at intervals with an annular series of retaining tongues 13 adapted to project beneath the ring 2, when the support is set up, to further hold the two rings 2 and 3 in locking engagement and to prevent their disconnection and any liability of casual collapse of the frame.

The support is adapted to be set up by disposing its elements into the position shown in Fig. 1, in which it will be seen that the uprights 4 and 5 extend upwardly from the bottom ring 1, which may rest upon a floor, table or other foundation, and that said uprights 4 and 5 support the rings 2 and 3 at an elevation above the ring 1, the rings 2 and 3 being sprung into interlocking engagement, as described, and further held connected by the tongues 13, thus keeping the uprights 4 and 5 rigid and preventing said uprights or the rings from having relative pivotal motion on one another. When the parts are in the set up position shown in Fig. 1 the stop members 11 abut against the coöperating keepers 8 and thus serve to limit the pivotal motion of the elements in one direction and to rigidly brace and support the parts in set up condition.

In Fig. 2 I have shown one of the many and various uses to which my invention may be put, the device being shown in this instance as a support for a coffee straining sack 12, which depends from the upper rings 2 and 3 into the space bounded by the collapsible frame and is passed at its upper edge over the ring 3 and clamped between the same and the ring 2. To release this sack 12 for disconnection it is simply necessary to spring the ring 2 out of engagement with the ring 3, as will be readily understood. In Fig. 4 I have shown the device used as a support for a body of screen wire

or similar material 14, clamped as described between the frame rings, which screen may serve as a grate, adapting the device to be used over a camp fire or heater for cooking or analogous purposes. The device may be employed for clamping and supporting various articles of the character described, thus rendering it capable of being used for many and varied purposes.

When it is desired to fold or collapse the device, this is effected by springing the rings 2 and 3 out of engagement with each other, and then swinging said rings outwardly into parallel relation with the uprights 4 and 5, and finally swinging the uprights 4 and 5 with the folded rings 2 and 3 into substantially parallel relation with the ring 1 and in superposed relation to each other. When the parts of the device are thus disposed, the holder will be folded in close compass for storage or for transportation in a ready and convenient manner, as will be readily understood.

Having thus fully described my invention, I claim:—

1. A folding or collapsible frame support comprising a bottom ring, a pair of top rings adapted for interlocking engagement with each other, and folding uprights pivotally connecting the bottom ring with the respective top rings.

2. A folding frame support comprising a bottom ring, a pair of top rings of resilient material adapted to be sprung into interlocking engagement with each other, and uprights pivotally connecting the bottom ring with the top rings to adapt said rings to be folded in parallel relation to each other.

3. A folding frame support comprising a bottom ring, a pair of resilient top rings adapted to be sprung into engagement with each other, one of said rings being adapted to lie within the other, and one of said rings having tongues to engage beneath the other, and uprights pivotally connecting the bottom ring with the respective top rings.

4. A folding frame support comprising a bottom ring, a pair of top rings adapted for interlocking engagement, said rings having U-shaped keepers offset therefrom, an upright pivotally engaging offsets of the bottom ring and one of the top rings and an upright pivotally engaging offsets of the bottom ring and the other top ring.

5. A folding frame support comprising a bottom ring having diametrically disposed U-shaped keepers, a pair of resilient top rings each having a similar keeper, the keepers of the top rings being disposed to lie opposite each other, said top rings being adapted for interlocking engagement, and uprights having coiled portions forming eyes pivotally engaging the uprights of the bottom ring with the uprights of the respective top rings, said eyes being provided with terminal stops to abut against the offsets and brace the frame elements when disposed in set up condition.

In testimony whereof I affix my signature.

JARED M. RICKARD

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."