S. L. GOLDMAN.

SUPPORTING FRAME FOR FILTER BAGS.

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Fig. 1.

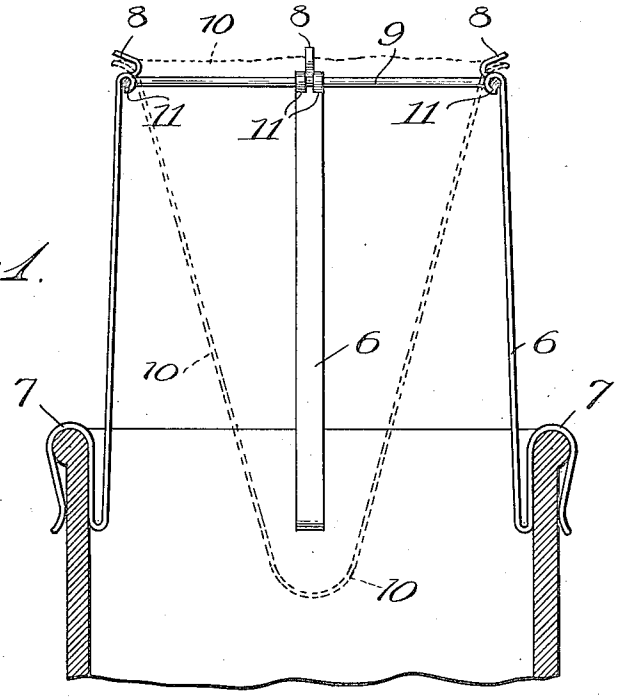
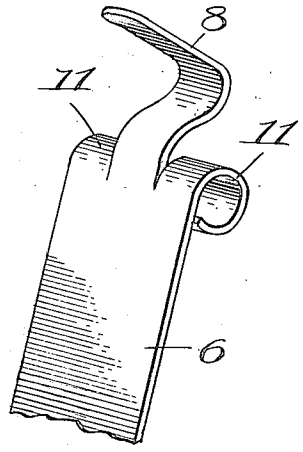


Fig. 2.



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UNITED STATES PATENT OFFICE.

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SUPPORTING FRAME FOR FILTER BAGS.

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To all whom it may concern:

Be it known that I, SIGMUND L. GOLDMAN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Supporting Frames for Filter Bags, of which the following is a specification.

The present invention relates to supporting frames for filter bags, and will be readily understood from the following description illustrated by the accompanying drawings, in which—

Fig. 1 is a sectional view through the device, illustrating it in use and with a filter bag supported thereon, and

Fig. 2 is a detail perspective view of the upper end of a leg of the device.

Referring more particularly to the drawings, the numeral 5 indicates a ring, which may suitably be formed of heavy gauge wire. Pivotally mounted upon this ring are a plurality of legs 6, the number of which may suitably be three or more. At their lower ends these legs are each provided with a clamping hook 7, which may suitably be adjusted to engage the rims of receptacles of different thicknesses. At their opposite ends, and above their pivotal support upon the ring 5, the legs 6 are each provided with an engaging hook 8, which may suitably pass through openings or eyelets 9 in a filter bag 10, thereby supporting the latter. The angular divergence of the legs 6 may, of course, be varied in accordance with the diameter of the receptacle upon which the filter bag is to be supported.

In its preferred form, the legs 6 are constructed of sheet metal strips. At one end the strip is split, and one or more split portions are curled over, as indicated at 11 in Fig. 2, to form the pivotal bearings for the leg upon the ring 5. Another split portion is bent to form the hook 8. At its other end, the strip is bent into sigmoid form, and the downwardly-opening portion of the curve thus formed provides a resilient clamping hook which engages over the rim of the vessel upon which the support is mounted. This clamping hook is resilient, but is likewise capable of being bent so that the opening may be made wider or narrower for use with thick or thin-walled receptacles.

The legs 6 are slidable upon the ring 5 as well as pivoted thereon, and hence may be spaced apart any desired distance, or may be brought together and turned inward, thereby collapsing the entire device into small compass.

Although the present invention has been described in connection with the details of a specific example thereof, it is not intended that these details shall be regarded as limitations upon the scope of the invention, except in so far as included in the accompanying claims.

I claim:

1. A bag holder comprising a ring, and a plurality of legs secured thereto, each of said legs consisting of a sheet metal strip having one end formed to provide a support and having its other end split, one split portion being curved around the aforesaid ring and the other split portion being bent to form an outwardly-opening hook.

2. A bag holder comprising a ring, a plurality of legs pivotally secured thereto, each of said legs being integral and of flat resilient metal and provided at one end with supporting means and extending beyond the ring at the other end to provide engaging means for a bag.

3. A bag holder comprising a ring, a plurality of legs pivotally secured thereto, each of said legs being integral and of flat resilient metal and provided at one end with resilient reverse hooks forming supporting means and the legs extending beyond the ring at the other end to provide engaging means for a bag.

4. In a bag holder, a leg consisting of a sheet metal strip having one end formed to provide a resilient clamping support and having its other end split, one split portion being bent to form an outwardly opening hook and the other split portion being curved over, and positioning means for the leg engaging the curved split portion.

5. In a bag holder, a leg consisting of a sheet metal strip having one end formed to provide a resilient clamping support and having its other end split, one split portion being bent to form an outwardly opening hook and positioning means for the leg engaging the other split portion.

6. A bag holder comprising a ring, a plurality of legs pivotally secured thereto and slidable thereon, said legs being provided

at one end with clamping means and extending beyond the ring at the other end to provide engaging means for a bag.

7. A bag-support consisting of a ring, and legs slidable thereon, each of said legs being of sheet metal and having at its upper end and integral therewith a hook adapted to engage and support a bag and having its lower end constituting a clamping support.

8. A bag-support consisting of a ring, and legs slidable thereon, each of said legs being of sheet metal and having at its upper end a hook adapted to engage and support a bag and having its lower end constituting a clamping support.

9. A bag-holder consisting of a ring, legs pivoted to, and slidable on, said ring, one end of each leg forming a support to engage a crock or vessel, the other end being in the form of a split hinge, the center of which is formed as a receiving hook for the bag, said supports being adapted to fit vessels of diameters greater and smaller than the ring.

SIGMUND L. GOLDMAN.