

(No Model.)

H. B. TIFFANY.

FILTER STAND.

No. 254,726.

Patented Mar. 7, 1882.

Fig. 1

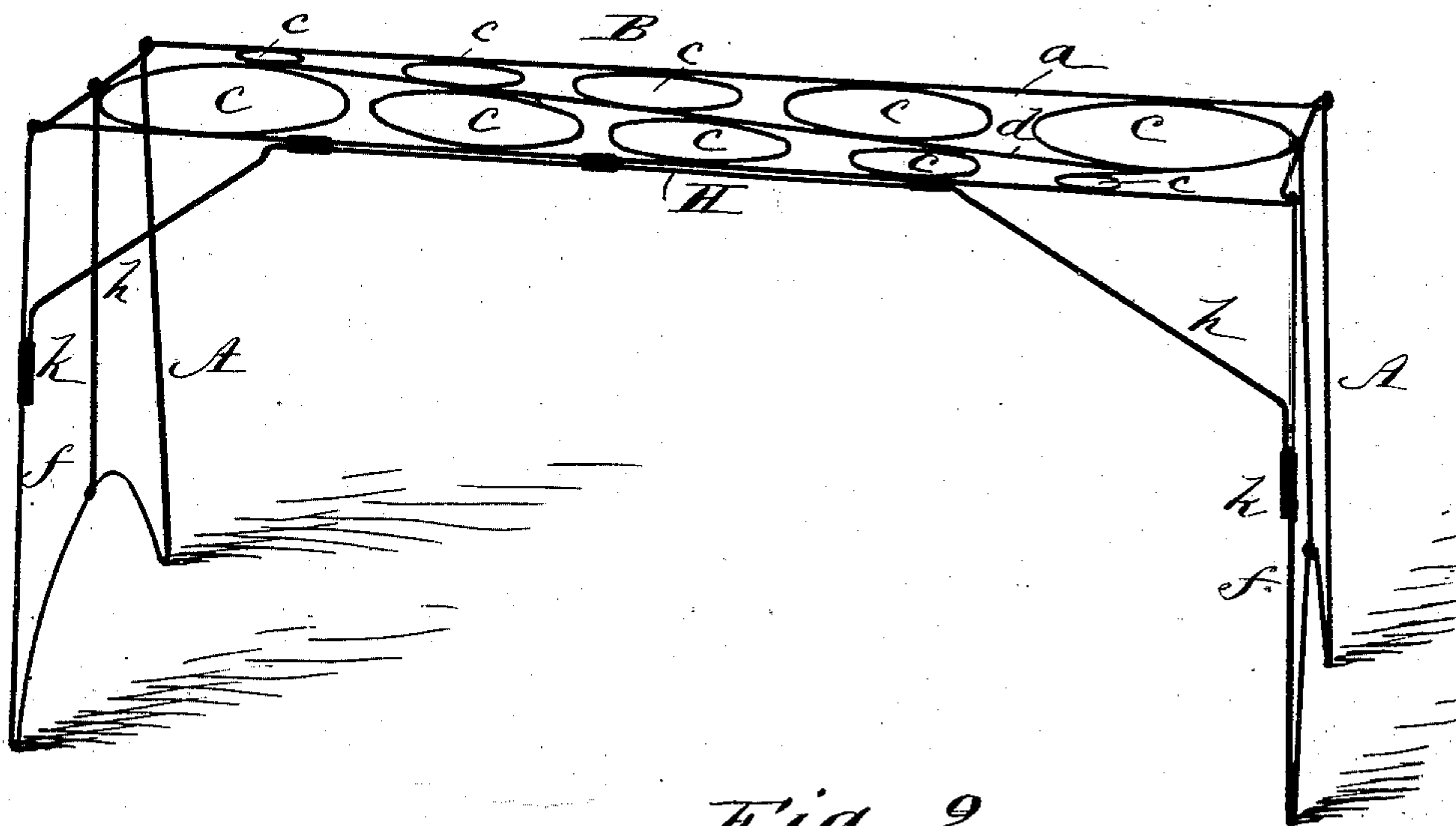
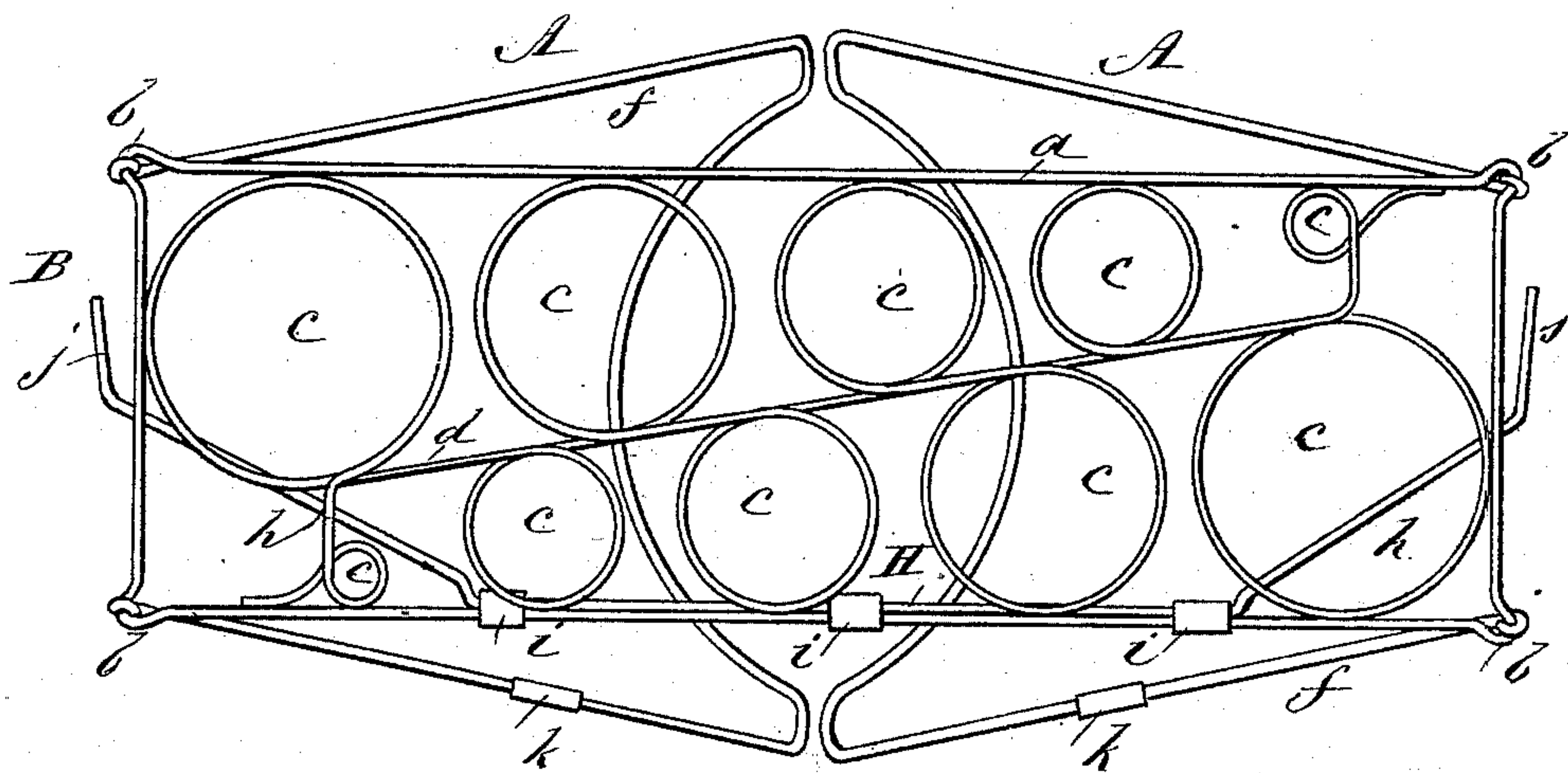


Fig. 2



WITNESSES:

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# UNITED STATES PATENT OFFICE.

HENRY B. TIFFANY, OF CLYDE, OHIO.

## FILTER-STAND.

SPECIFICATION forming part of Letters Patent No. 254,726, dated March 7, 1882.

Application filed January 12, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY B. TIFFANY, of Clyde, in the county of Sandusky and State of Ohio, have invented a new and Improved Filter-Stand, of which the following is a full, clear, and exact description.

My invention consists of a filter-stand formed with a series of funnel-supports, whereby the stand is adapted to hold several funnels at the same time, the stand being adapted to be folded so as to occupy small space when not in use. The funnel-supports are made of different sizes, so that the stand is adapted to hold both large and small funnels; and to be used with both large and small receptacles for receiving the filtrate, which also constitutes a feature of my invention.

The invention further consists in the construction, arrangement, and combination of parts, as hereinafter fully described.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a perspective view of my invention as it appears when ready for use, and Fig. 2 is a plan view showing the stand folded.

A A represent the legs or supports of the stand, and B represents the main horizontal table portion of the stand, which is by preference provided with the double series of orifices, rings, or supports *c c*, in which the funnels are to be placed during the operation of filtering. I prefer to make the stand entirely of wire; but sheet metal or wood may be used instead, if desired. When made of wire the main frame *a* is first bent into the form shown, or in any other desirable form, the bending being done in such manner as to form the eyes or loops *b b* at the corners, as shown in Fig. 1. The series of orifices or supporting-rings *c* for the funnel or funnels are all formed of the single piece of wire *d*, and this wire, after being bent to form the said rings, is secured to or in the frame *a* by any suitable means, preferably by soldering at the ends of the wire and at the outer edges of the rings, where they come in contact with the wire *a*. The legs or supports

A A are bent up of the wires *f f* into the form shown in the drawings, and the ends of the wires are looped into the eyes or loops *b b* of the main frame *a* in such manner that the legs are hinged to the main frame, so that they may be folded upon the main frame, as shown in Fig. 2. When the legs A A are unfolded to support the stand for use they are held in a vertical position by the strong wire or rod H, which is secured to one side of the main frame or wire *a* by the sleeves *i i*, and this rod H is bent to form the tie-rods or braces *h h*. The rod H, after being bent to form the braces *h h*, is, at the extreme ends, bent again, as shown at *j j*, so that a suitable portion of the rod will stand parallel with the legs or supports A A when unfolded, so that the braces and legs may be secured for holding the legs in vertical position by the clasps or sliding sleeves *k k*, which are placed upon the wires *f f*, as clearly shown in Fig. 2.

It will be seen that the rings or supports *c c*, in which the funnels are held, are of various sizes, so that if it is desired to filter into a large bottle or other receptacle of considerable height the funnel can be placed in a small ring or support, or, if desired to filter into a small bottle, the funnel can be placed in one of the larger rings or supports. In this manner the funnel can be variously held, according to the height of the receptacle to receive the filtrate, and in such manner that its lower end may enter the neck of the bottle, yet its weight and the weight of its contents will be entirely supported by the stand. Besides, the series of rings or supports in the stand permits the filtration of several preparations at the same time.

When not in use the sleeves *k k* are to be stripped off from the ends *j j* of the braces, and the rod H turned up against the under side of the main frame, and the legs are then to be folded upon the main frame, as shown in Fig. 2, so that the stand can be hung up or placed in some small place out of the way.

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



1. The main frame B, having the rings or funnel-supports *c*, and the hinged legs A A, in combination with the rod H, bent to form the braces *h h*, and the sliding sleeves *k*, substantially as described.

2. The wire frame B and the wire *d*, bent to form the series of rings *c*, in combination with the hinged legs A A and means for bracing the legs, substantially as described.

3. In combination with the frame B and hinged legs A A, and the sleeves *k k*, the rod H, secured to the frame by the sleeve *i*, and bent to form the braces *h* and the straight portions *j*, substantially as described.

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Witnesses:

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