

(No Model.)

W. C. BALDWIN.
STRAINER.

No. 576,798.

Patented Feb. 9, 1897.

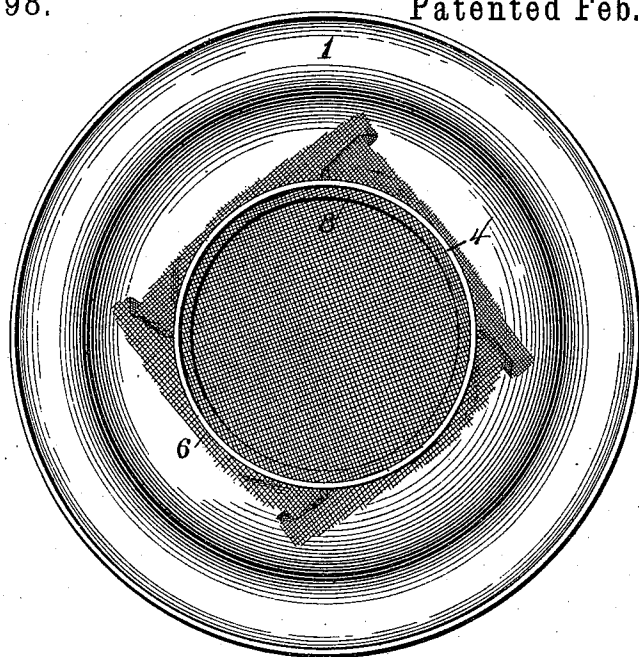


Fig. 1.

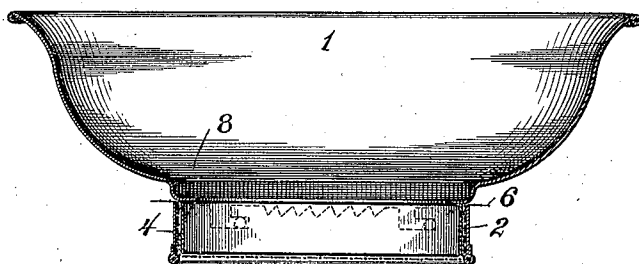


Fig. 2.

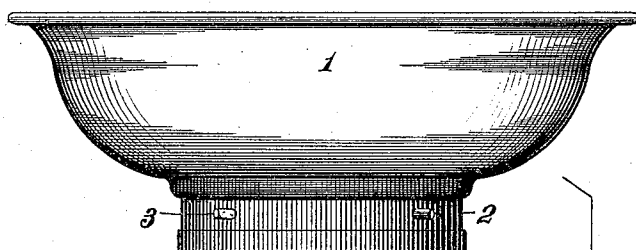
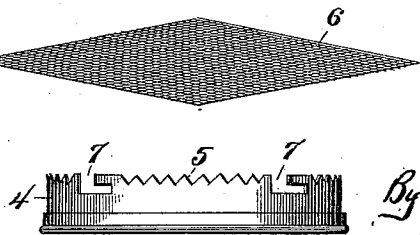


Fig. 3.

Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM C. BALDWIN, OF WYOMING, PENNSYLVANIA.

STRAINER.

SPECIFICATION forming part of Letters Patent No. 576,798, dated February 9, 1897.

Application filed April 2, 1896. Serial No. 585,871. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM C. BALDWIN, a citizen of the United States, residing at Wyoming, in the county of Luzerne and State of Pennsylvania, have invented certain new and useful Improvements in Strainers; 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.

My invention relates to improving the ordinary straining device now in common use in such manner as to engage the cloth or other straining medium interposed and hold the same against the load placed upon it.

Reference will be had to the accompanying drawings, forming part of this application, in which—

Figure 1 is a bottom plan view of my invention ready for use. Fig. 2 is a central section through all the parts. Fig. 3 is a view showing the elements of my invention detached ready to assume their operative positions.

As will be understood, the simplest form of strainer is made by throwing a cloth of coarse or fine mesh over a jar, keg, or the like, but no means have, so far as I am aware, been provided to hold such cloth from falling into the vessel when the liquid to be strained is poured thereon other than a simple retaining-band or by manually securing it, while in my invention the cloth is adjustably secured either in a taut or lax position.

While my invention is especially useful in straining and intercommingling paints, oils, and the like, it is no less efficient as a domestic colander and for other uses requiring the safe handling of a large or small quantity of liquid or semiliquid matter to be disintegrated or strained.

In developing my invention I provide the receptacle or body proper, 1, which is preferably formed with inwardly-inclined sides terminating in the downwardly-extending collar 2, provided with the peripheral lugs 3. Arranged to telescope with said collar and rest upon the outer face thereof I provide the sleeve 4, which carries the serrated edge 5, adapted to engage the cloth or other straining medium 6, and positively hold it to its work when the load of liquid and the like is

upon it. I prefer to secure said sleeve upon the collar by means of the bayonet-slot 7, engaging with the lugs 3, though it will be understood I do not wish to confine myself to such means of securing the parts, as a spirally-disposed groove or thread may be employed.

Interposed with respect to the collar and the sleeve is the cloth 6, having any preferred mesh, which may be so placed that it will be taut or loose when the sleeve is forced home upon the collar, as the serrated edge 5 engages with such cloth and takes into it in such manner that it will be securely locked and held to its work of not only sustaining the load of paint or other liquid, but such liquid may be agitated by a brush or other means, and thus forced through the meshes. The serrated edge 5 upon the upper edge of the sleeve 4 has a twofold function, as such serrations not only positively engage with the cloth and hold it to its work after the sleeve is in position upon the collar, but during the act of placing the sleeve in position the serrations engage more or less with the cloth, tending to bring it taut and positively against the collar, and thus removing all creases or wrinkles.

It will be found that the simple bayonet-slot, whether inclined or at right angles to the collar, will be amply sufficient to hold the sleeve upon the collar, owing to the binding or friction set up by the interposed meshed medium.

On the inner face and lower end of the tapered body I provide the annular flange 8, preferably disposed at right angles to the collar and adapted to receive the wipings of the brush used to agitate the clogged surface of the cloth, and thus facilitate the straining process.

It will be understood that wire-cloth or perforated sheet metal may be used, if desired, (not shown,) in which case the perforated metal may be secured to the lower edge of the sleeve or formed integrally therewith, or such wire or perforated metal may be used as a reinforcement to the cloth, if desired.

In assembling the several parts of my invention the cloth having the desired mesh is placed over the lower edge of the collar, when the sleeve is so adjusted that the opening to

the coöperating slot will coincide with the lugs 3, when it is forced to encircle the collar, and is secured thereon by a slight rotary movement of the sleeve, while at the same time the serrated edge 5 engages with the cloth and effectually holds it to its work.

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

- 10 1. A strainer or colander provided with the tubular extension or collar having peripheral lugs; a radial internal flange fixed to the body at its point of juncture with said collar; a sleeve having its upper edge serrated and
15 adapted to receive said collar and having slots to engage lugs thereon, and a meshed medium interposed between said collar and sleeve substantially as described and for the purpose named.
- 20 2. In combination, a strainer or colander

comprising the body; a tubular extension secured to said body, and provided with peripheral lugs; a sleeve having slots to engage said lugs and provided upon its upper edge with a series of serrations, and a meshed medium
25 placed between said collar and sleeve and there positively held by said serrations, substantially as described and for the purpose named.

3. A bowl-shaped receptacle having a straight open neck, a strainer, and a collar
30 having its upper edge serrated and means for attaching the collar to the receptacle, all operatively combined as set forth.

In testimony whereof I affix my signature
35 in presence of two witnesses.

WILLIAM C. BALDWIN.

Witnesses:

W. L. DURLAND,
JOHN D. HARRIS.