(No Model.)

C. M. CHAPMAN.

STRAINER.

No. 579,956. Patented Apr. 6, 1897.

Fig. 1.

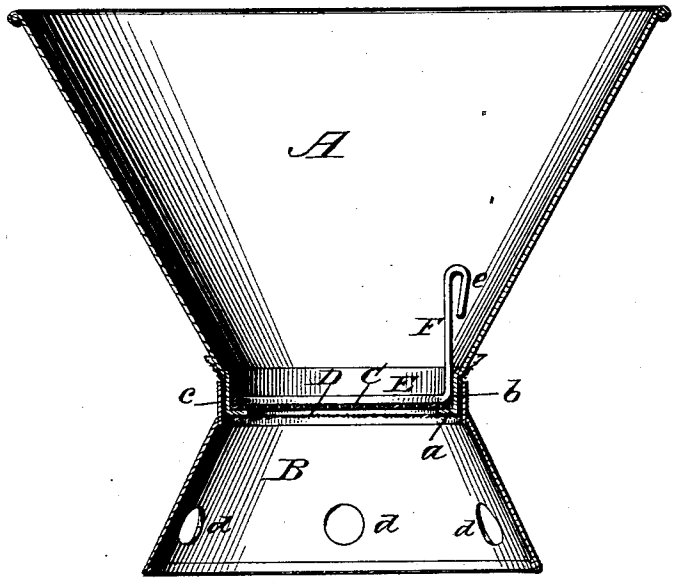
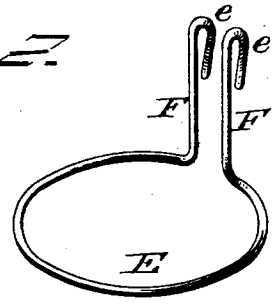


Fig. 2.



Witnesses
J. J. Williamson.
J. Goddard.

Inventor
Charles M. Chapman.
per Chas. N. Fowler.
Attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CHARLES M. CHAPMAN, OF FORT EDWARD, NEW YORK, ASSIGNOR OF ONE-HALF TO EDWARD MATHEWS, OF NEWARK, NEW JERSEY.

STRAINER.

SPECIFICATION forming part of Letters Patent No. 579,956, dated April 6, 1897.

Application filed March 29, 1895. Serial No. 543,682. (No model.)

To all whom it may concern:

Be it known that I, CHARLES M. CHAPMAN, a citizen of the United States, residing at Fort Edward, in the county of Washington and State of New York, have invented certain new and useful Improvements in Strainers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

This invention relates to certain improvements in strainers.

The object of the invention is to provide a strainer exceedingly cheap and simple in construction and composed of a minimum number of parts and so arranged that the several parts composing the same can be easily detached for purposes of cleaning, &c.

The invention consists in certain novel features of construction and in combinations and arrangements of parts more fully and particularly pointed out hereinafter.

Referring to the accompanying drawings, Figure 1 is a vertical section. Fig. 2 is a perspective view of the clamping-ring for holding the strainer-disk in position.

A represents the funnel-shaped body, constructed of sheet metal and provided at its lower end with an inwardly-projecting supporting-flange *a*, formed with the neck *b*. Over the neck *b* fits the rim *c* upon the upper end of a flaring support B, which has perforations *d* to allow the escape of the strained liquid when said support is in use. Upon the supporting-flange *a* rests the strainer-disk C, which may be of perforated sheet metal or wire-gauze, as found best adapted to the kind of liquid to be strained. In connection with this metal strainer-disk C may be used a strain-cloth D of any desirable fineness, which may be held in place between the neck *b* and rim *c*, as shown, or upon the inside of the neck and the metal strainer-disk placed thereon, as found desirable.

By the employment of the cloth in addition to the metal strainer-disk a more perfect straining of the liquid is obtained, as the impurities or foreign bodies passing through the perforations or meshes of the metal disk are taken up by the cloth and prevented from passing through the strainer.

A very simple and effective device is provided for holding the metal strainer-disk in place, which device consists of a spring clamping-ring E, constructed of suitable wire. The ends of the wire forming the ring are bent to present vertically-projecting arms F, and the extremities of these arms have curved ends to form bearings or thumb-pieces *e* to be used in pressing the two arms together when the ring is to be contracted. After the strainer disk and cloth are in place the ring E is contracted by pressing together the arms F and the ring inserted within the strainer immediately over the disk C, and by removing the pressure from the arms the ring will expand to its original size or sufficiently to be held in place by frictional contact with the interior of the neck *b*.

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

The herein-described strainer composed of an approximately funnel-shaped body having the wide-flaring top opening and the neck *b*, the lower portion of said body terminating in the inwardly-projecting flange *a*, formed on the lower edge of the neck of said funnel-shaped body, the circular-shaped removable strainer *c*, consisting of a disk resting on said inwardly-projecting flange *a*, the spring-wire clamping-ring E located within said opening as described, the two arms F extending upwardly therefrom having their upper ends curved or bent over to form two separate thumb-pieces *e*, the rim *c*, the straining-cloth D between the neck *b* and the said rim *c*, and the flaring support B adapted to support the body A, the funnel body being provided with perforations *d* in the lower part thereof for the escape of liquid as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

CHARLES M. CHAPMAN.

Witnesses:

EDWARD M. QUACKENBUSH,

HAMNER P. CRONKHITE.