(No Model.)

W. F. KENDRICK.

STRAINER FOR KETTLES, &c.

No. 405,216. Patented June 11, 1889.

Fig. 1.

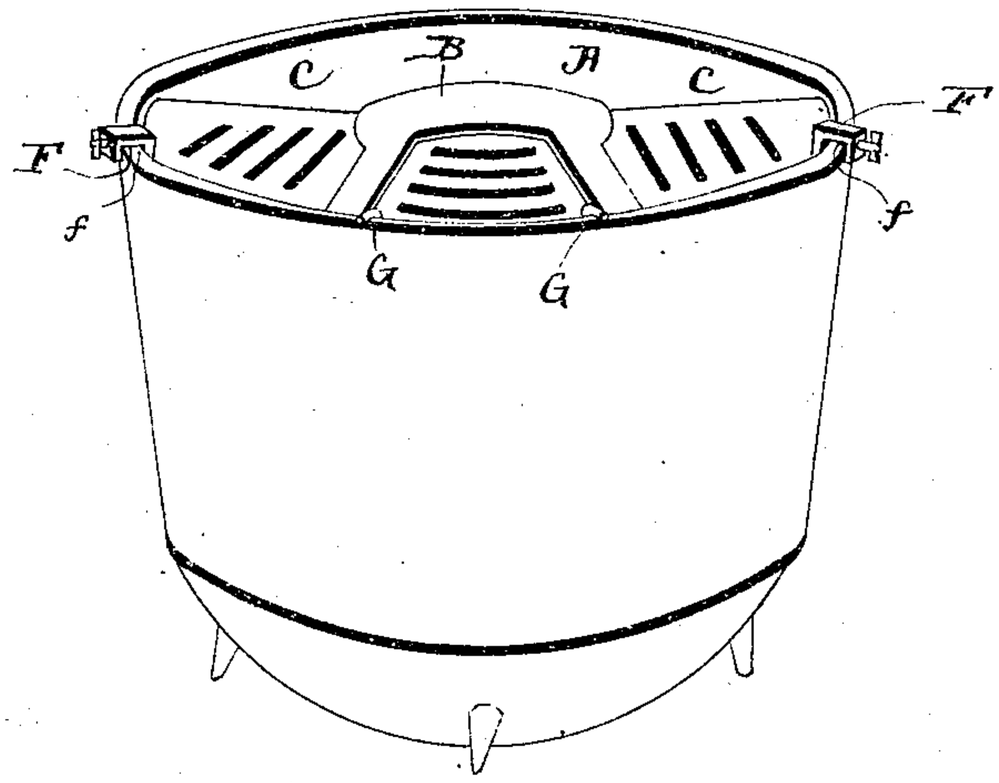


Fig. 2.

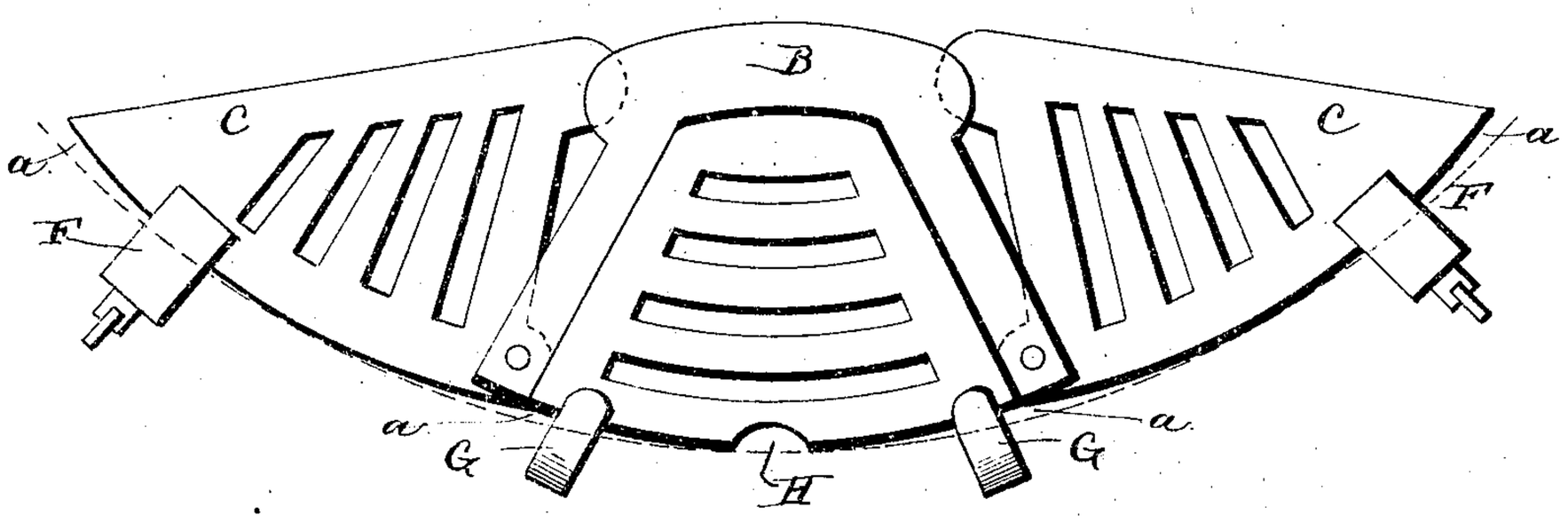


Fig 3

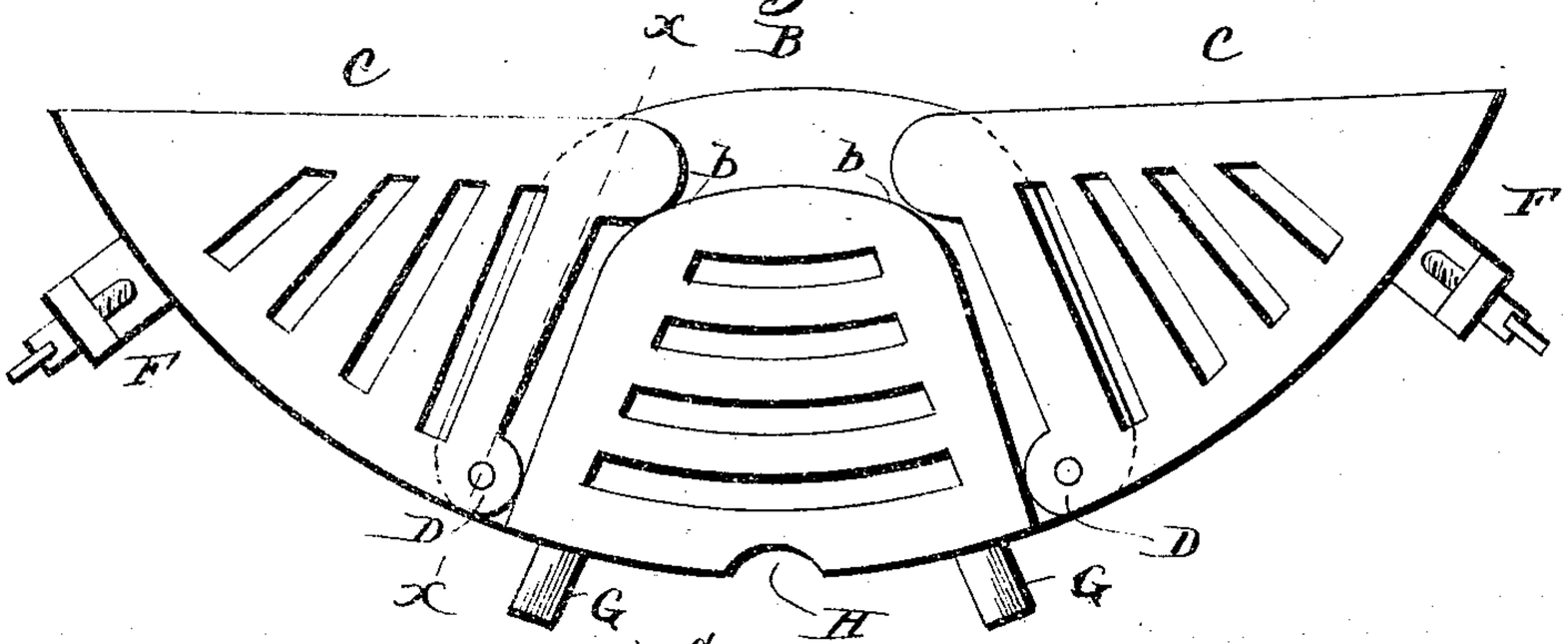
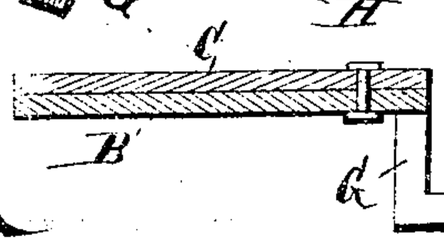


Fig 4



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM FRANCIS KENDRICK, OF WINFIELD, IOWA, ASSIGNOR OF ONE-HALF TO H. L. GLASS, OF SAME PLACE.

STRAINER FOR KETTLES, &c.

SPECIFICATION forming part of Letters Patent No. 405,216, dated June 11, 1889.

Application filed March 14, 1889. Serial No. 303,275. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM FRANCIS KENDRICK, a citizen of the United States, residing at Winfield, in the county of Henry and State of Iowa, have invented new and useful Improvements in Strainers for Kettles, &c., of which the following is a specification.

The invention relates to an adjustable strainer or filter to be applied to pots, kettles, pails, &c.; and it consists in a certain novel construction and combination of parts, fully described hereinafter in connection with the accompanying drawings, and specifically pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view of the improved strainer applied in the operative position to a kettle. Fig. 2 is a plan view of the same extended as seen when applied to a larger vessel. Fig. 3 is a bottom plan view of the strainer. Fig. 4 is a transverse section on the line *x x*, Fig. 3.

Referring by letter to the drawings, A designates the strainer, which consists of a series of connected sections or sector-plates pivoted together near their peripheries and overlapping each other at their contiguous edges.

B designates the central or main section, which is provided on its under side a short distance from its side edges with the shoulders *b b;* and C C designate the side or adjustable sections, which are pivoted to the outer corners of the main or central section and lap under the edges of the latter section until they bear against the shoulders *b b*. The side or adjustable sections are provided at their inner angles with the bearing-ears D D, which extend toward the central or main section and extend under the same, (even when the strainer is extended to fit a larger vessel, as clearly shown in Fig. 2,) and thereby support the inner edge of the main section.

The sections are perforated or slotted, as shown, to allow the fluid contents of the vessel to escape, while the solid contents are retained, and when the strainer is extended, as shown in Fig. 2, the adjacent edges of the sections are separated to form small spaces or slots, which, however, are not large enough to interfere with the proper operation of the device.

The outer corners of the side or adjustable sections are provided with the integral clamps F F, which consist of the angular arms *f f*, to fit over the upper edge of the vessel, and the set-screws fitting in tapped apertures near the extremities of the arms and bearing against the outer surface of the vessel. The main or central section is provided at its periphery with the angular supporting-arms G G, which bear on the upper edge of the vessel and prevent the said section from sagging.

When the vessel to which the strainer is applied is of a certain size, the periphery of the latter will fit snugly thereon, as shown in Fig. 1, a small notch H being formed in the center of the periphery of the main section to form a drain for the contents of the vessel; but if the vessel is larger or smaller, thereby causing the strainer to be extended or contracted, small openings will be formed between the periphery thereof and the sides of the vessel, which will form drains, as shown at *a* in Fig. 2, where the dotted line represents the side of a vessel larger in circumference than the curve formed by the strainer in its normal condition.

Having thus described the invention, I claim—

1. An adjustable strainer for pots, kettles, &c., consisting of a series of sector-shaped sections, substantially as specified.

2. In a strainer, the combination of a central section and the side sections pivoted near their peripheries to the central section, the adjacent edges of the said sections overlapping each other, substantially as specified.

3. In a strainer, the combination of the central section provided on its under side with shoulders *b b*, and the side sections pivoted to the central section and sliding at their side edges under the adjacent side edges of the latter, substantially as specified.

4. In a strainer, the combination of a central section provided with angular supporting-arms G G to bear on the upper edge of a vessel, and the side sections pivoted to the central section and provided with the clamps F F to fit over the edge of the vessel and engage the same, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WILLIAM FRANCIS KENDRICK.

Witnesses:

W. MULLIN,

T. C. RITTENHOUSE.