T. M. HILL.

Combined Sieve and Strainer.

No. 201,609. Patented March 26, 1878.

Fig. 1.

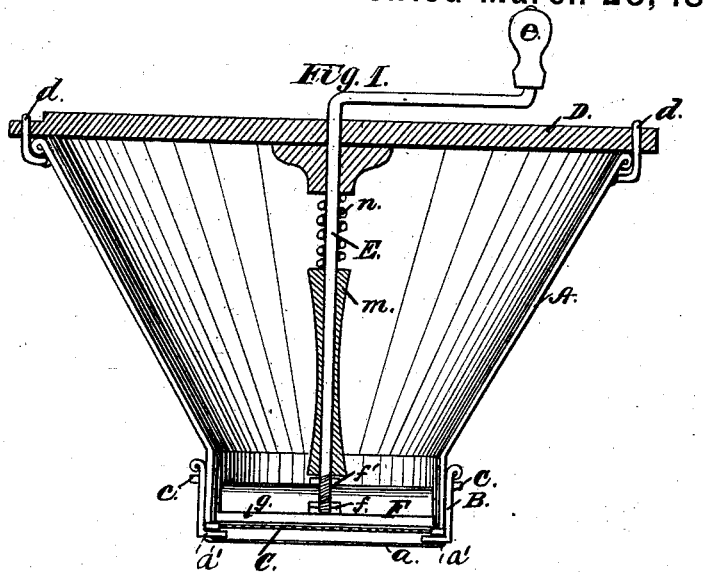


Fig. 2.

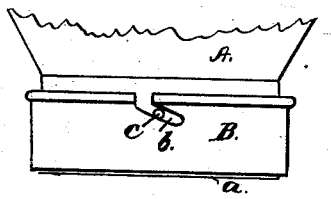
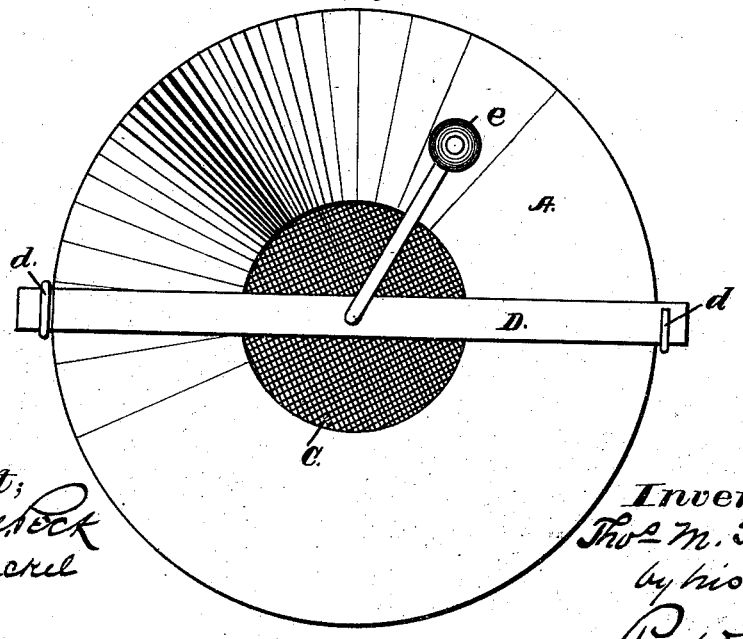


Fig. 3.



Attest;
Chas. M. Peck
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Inventor;
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by his Attys.
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UNITED STATES PATENT OFFICE.

THOMAS M. HILL, OF DAYTON, OHIO.

IMPROVEMENT IN COMBINED SIEVE AND STRAINER.

Specification forming part of Letters Patent No. **201,609**, dated March 26, 1878; application filed October 29, 1877.

To all whom it may concern:

Be it known that I, THOMAS M. HILL, of Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Combined Sieve and Strainer; and I do hereby declare the following to be a full, clear, and exact description of the same.

My invention has for its object the production of an improved sieve for sifting flour or other meal, and for straining jellies, or for any of the uses to which sieves may be put.

The novelty consists in the construction and arrangements of the parts, combining simplicity with efficiency, all as will be set forth.

In the accompanying drawing, Figure 1 represents a central sectional view, in elevation, of my improved sieve. Fig. 2 is a side elevation of the lower portion of the same. Fig. 3 is a plan view of the sieve.

The body A is a funnel-shaped piece of tin or other sheet metal, open at both ends. Over the lower end I fit a cap or sleeve, B, having its bottom rim turned in to form a flange, *a'*, as indicated in Fig. 1. Across the bottom of the cap B are two diametrical intersecting brace-wires, *a*, Figs. 1 and 2. The wire-gauze or perforated sieve C is clamped between the flange of the cap B and the lower edge of the body A, as indicated in Fig. 1; and to prevent its slipping or turning, I cut the inclined slots *b*, Fig. 2, in the upper rim of the cap B. Pins *c*, projecting from the lower portion of the body A, fit into these slots, and, by turning the cap, it is drawn up and clamps the screen tightly.

D is a wooden strip, secured diametrically across the top rim of the body A by loops *d*, which allow it to be removed, when necessary. Through the middle of this strip is passed a rod, E, having its top end bent into a crank form, with a handle, *e*, and having attached to its lower end, by nuts *f f'*, the agitator or stirrer F. This last consists of a transverse strip, to which is attached, in any convenient way, a piece of sheet-rubber, *g*, which rests upon the sieve C, and, as the handle *e* is turned, the flour, or whatever may be the contents, is forced through the meshes.

To hold the stirrer down with uniform pressure I place a spool, *m*, upon the rod E, and between the top of the spool and the strip D a spiral spring, *n*, which last holds the stirrer down with a uniform yielding pressure.

The essential feature of my device is the removable and adjustable bottom cap B, by means of which I can apply sieves with different-sized meshes to suit the article to be sifted.

Having thus fully described my invention, I claim—

The combination of the body A, having pins *c*, the cap B, provided with slots *b* and bottom flange *a'*, and the sieve C, clamped between body A and flange *a'*, as and for the purpose herein shown and described.

Witness my hand this 15th day of October, A. D. 1877.

THOMAS M. HILL.

Witnesses:

WM. RITCHIE,

P. H. GUNCKEL.