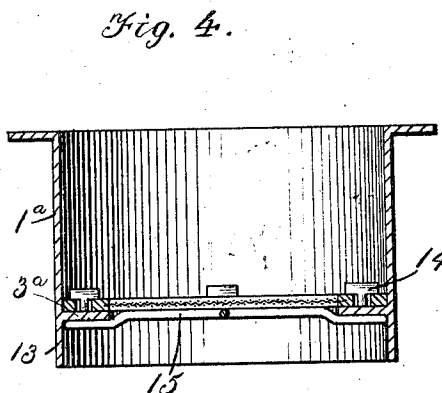
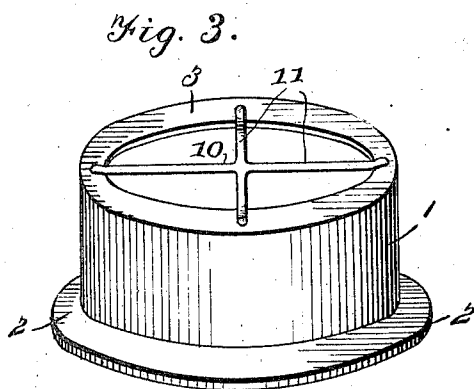
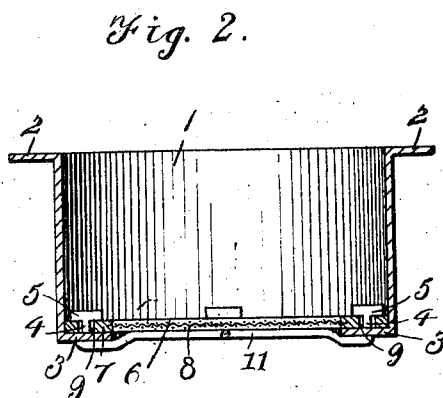
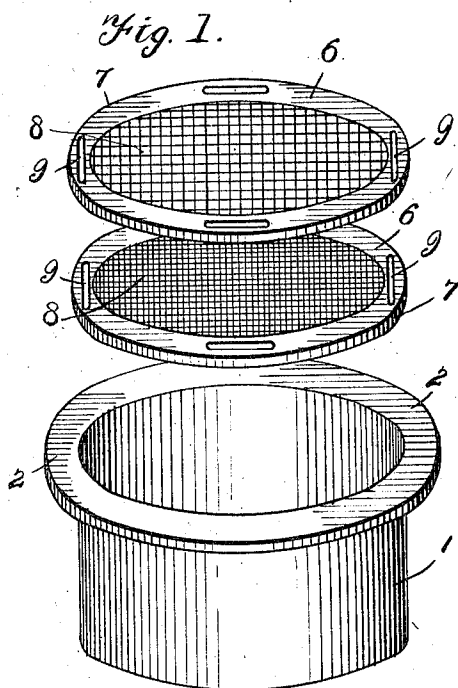


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SIEVE.
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1,030,673.

Patented June 25, 1912.



Witnesses

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1,030,673.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, MARGARET McILVAINE, a citizen of the United States, residing at Irwin, in the county of Westmoreland and State of Pennsylvania, have invented new and useful Improvements in Sieves, of which the following is a specification.

This invention relates to sieves, and has for an object to provide a device of this character which will include a series of sifting members and a support or bowl for interchangeably receiving the members, the said members each being constructed of different mesh so that the sieve will be adapted for use in sifting such materials as flour, coarse or fine meals, grain, sand, etc.

In the drawing, forming a portion of this specification and in which like numerals of reference indicate similar parts in the several views:—Figure 1 is a perspective view of the sieve showing the sifting members detached from the body or bowl. Fig. 2 is a vertical section through the sieve showing one of the sifting members in its applied position. Fig. 3 is an inverted perspective view of the body or bowl member. Fig. 4 is a section similar to Fig. 2 showing a slightly modified form of the invention.

The sieve comprises a body or bowl member 1 which is preferably of cylindrical configuration, the walls of the member being provided at the top of the bowl with an outwardly extending flange 2, and at the bottom of the bowl with an inwardly extending flange 3. The flange 3 has mounted thereon a circular series of retaining devices 4. These devices are substantially of T-form and each is provided with a horizontally disposed elongated head 5. These heads are spaced from the flange 3 for a purpose to be hereinafter described.

The sifting members 6, which are particularly shown in Fig. 1 of the drawing, each includes an outer ring 7 to which is attached in any suitable well known manner suitable wire netting 8. The ring is provided with elongated openings 9 which are adapted to receive the elongated heads 5 of the fastening devices 4. In use, one of the sifting members is inserted in the body member 1 and arranged therein so as to seat against the flange 3, the fastening devices 4 being extended upwardly through the openings in the ring of the sifting member and then manipulated so that the heads 5 extend

transverse to the plane of the openings in the ring. This securely holds the sifting member in its adjusted position, as will be understood. To prevent the full weight of the material to be sieved from being applied directly to the sifting wire, I provide the body member 1 with a support 10. This support includes the radial wires or rods 11 whose outer ends are secured in any suitable well known manner to the flange 3. From this construction it will be seen that the support 10 extends directly beneath the sifting member after the latter has been operatively arranged in the member 1 and the weight of the material to be operated upon will be substantially wholly supported by the member 10.

In the form of the invention shown in Fig. 4, the member 1^a is substantially the same as the member 1 in the preferred form of my invention. The flange 3^a is substantially identical with the flange 3. In this form the walls of the member 1^a are extended below the plane of the flange 3^a, as at 13. The flange 3^a is provided with the revolubly mounted buttons 14 which are engaged with the ring member as hereinbefore described. The sifting member support 15 has its rods soldered or otherwise suitably secured to the underside of the flange 3^a.

The construction described is such that a sieve is provided which will include a main supporting member and a series of separate sieve members, the said sieve members being constructed of different gage wire gauze and the said members being interchangeably fitted with the said supporting member so that the sieve of the required type can be readily applied to the supporting member as the occasion may require, and according to the character of the material to be operated upon.

I claim:—

A sieve comprising a substantially elongated cylindrical member provided at its upper end with an outwardly extending flange and provided at its lower end with an inwardly extending flange, said flanges being disposed at right angles to the outer and inner walls of the elongated cylindrical member, rods disposed radially upon the bottom of said cylindrical member and bisecting each other at the central portion of said cylindrical member, said rods having their ends secured to the underneath portion of

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said bottom flange and offset from the underneath portion of said flange so that the major portions of the rods lie in the same general plane with the said bottom flange,
5 a sieve removably mounted in the said cylindrical member and diametrically opposed means on the inner flange and positioned within the member for holding the sieve con-

fining against the rods and the inwardly extending flange respectively.

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

MARGARET McILVAINE.

Witnesses:

JOHN M. LANG,
ADAM SCHADE.