(No Model.)

A. F. PUREFOY.

SIFTER.

No. 376,449. Patented Jan. 17, 1888.

FIG. I.

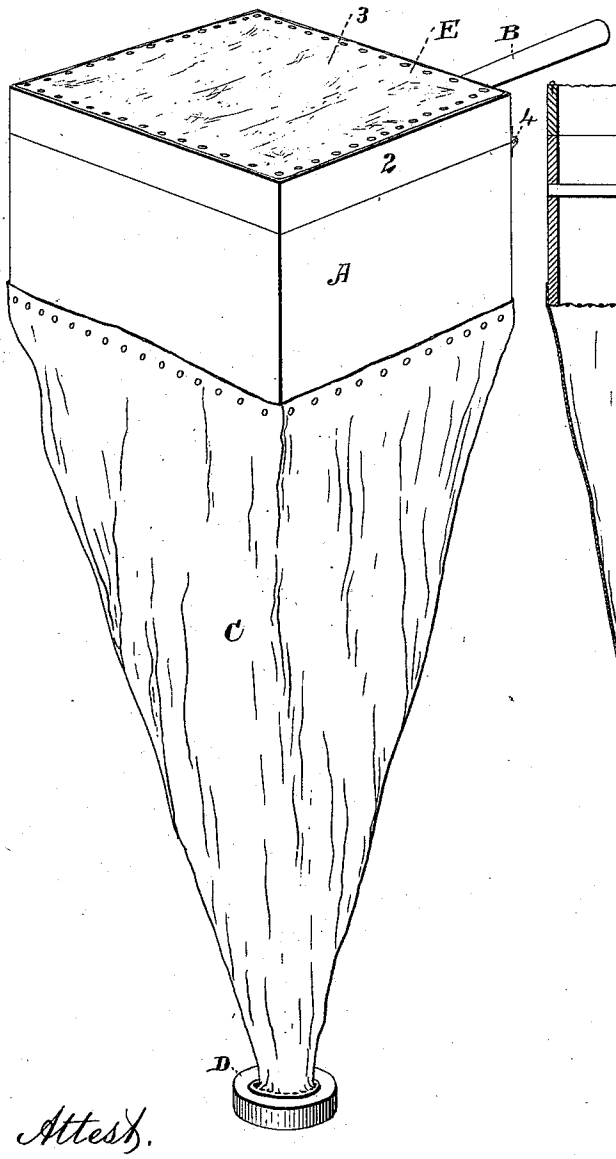
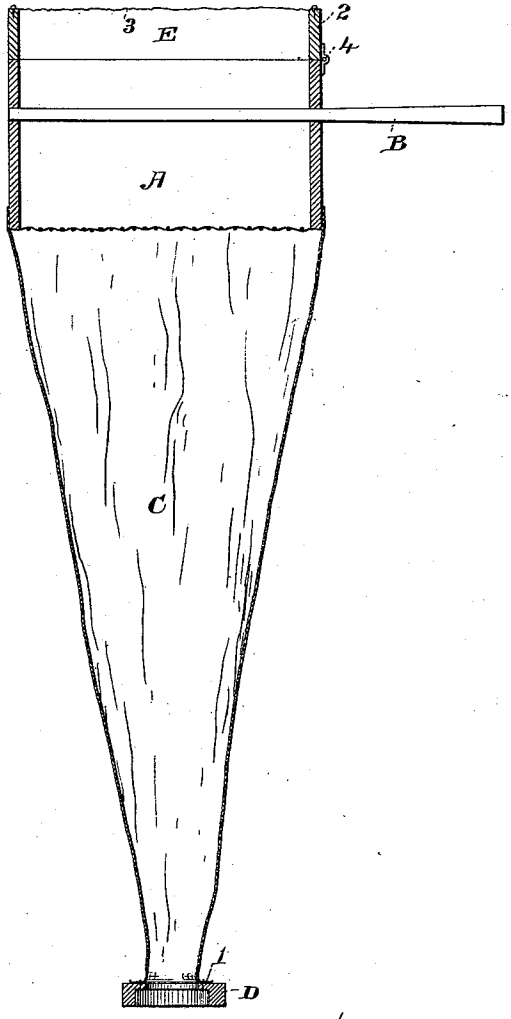


FIG. II.



Attest.

Geo. T. Smallwood.

Jas. R. McCathran.

Inventor:

Addison F. Purefoy

by Chas. J. Hedrick

his attorney

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

ADDISON F. PUREFOY, OF NEW HAVEN, CONNECTICUT.

SIFTER.

SPECIFICATION forming part of Letters Patent No. 376,449, dated January 17, 1888.

Application filed March 28, 1887. Serial No. 232,683. (No model.)

To all whom it may concern:

Be it known that I, ADDISON F. PUREFOY, a citizen of the United States, residing at New Haven, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Sifters, of which the following specification is a full, clear, and exact description.

This invention relates more particularly to sieves to be held in the hand and shaken; and it consists in certain additions to the sieve, as hereinafter particularly pointed out, which additions are designed mainly to conduct the sifted material into any suitable receptacle, and to prevent the flying about of the sifted material or dust without increasing the weight of the sieve to such an extent as to render it a serious objection to its use as a hand-sieve.

In the accompanying drawings, which form part of this specification, Figure I is a perspective view of a sieve provided with the features which constitute the invention, and Fig. II a vertical section of the same.

The sieve A, of any ordinary or suitable construction, provided or not, as may be desired, with a handle, B, has attached to its rim or frame a tube or conveyer, C, of cloth or of other flexible material, and the lower end of this tube is weighted. If weighted, a hollow or ring weight, D, is preferably employed. The particular outline of this weight, whether circular, as shown, or of other shape, is not essential. As shown, the weight is provided with a flange, 1, in which are holes for the passing of thread or cord for securing it to the cloth tube C. Of course other forms of ring could be used, and it could be secured to the cloth in any suitable way. The use of the hollow or ring weight, and specially of the flanged weight, constitutes a special feature of invention. The reason for employing the flanged ring is mainly economy of manufacture. It can readily be cast with the holes in the flange. It has also the advantage that it does not require to be inclosed by the cloth, and in use projects below the same, and tends to keep it out of the ashes or other sifted material.

No particular dimensions or relative proportions for the cloth tube, weight-ring, and sieve are essential; but it is preferred to have the hollow or ring-shaped weight of considerably less diameter than the sieve, the cloth tube C (which may be of any suitable length) being contracted toward the bottom, as shown.

In use the cloth tube conducts the sifted material into the receptacle therefor, the weight D, which rests or may rest on the bottom of said receptacle or the material therein, keeping down the lower end of the tube, whose flexibility permits the sieve to be shaken. Of course it is not essential that the sieve should be held in hand when used, although that is intended.

In order to prevent the material sifted or dust from escaping at the top of the sieve, the latter is provided with a removable lid or cover, E, which is secured to the frame or rim of the sieve, being, as shown, secured thereto by hinge 4. For lightness this cover is made of a stiff ring or frame, 2, of wood or other suitable material, and a top, 3, of cloth, sheet metal, or other material much lighter than the ring or frame 2.

The improvements are applicable to flour-sifters, ash-sifters, or sifters for other materials.

The weight D of course remains attached to the cloth tube or flexible conveyer C when not in use, and is thus, like the cloth tube, in the nature of a permanent attachment to the sieve when both are used together, although either or both may be secured so as to be detached for cleaning or other purpose with more or less facility.

I claim as my invention or discovery—

1. In combination with a sieve, a cloth tube weighted at the bottom and secured at the top around the rim or frame of the sieve, substantially as described.

2. The combination of the sieve, the cloth tube secured to the rim or frame of the sieve, and the ring-weight secured to the bottom of the tube, substantially as described.

3. The combination of a sieve provided

with a removable cover, a cloth tube under the sieve, and a weight at the lower end of said tube, substantially as described.

4. The combination, with a sieve, of a cloth tube secured at the top around the rim or frame of the sieve, and contracted at the bottom so as to form a flexible funnel-shaped conveyer under the sieve, substantially as described.

In testimony whereof I have signed this specification in the presence of two witnesses.

ADDISON F. PUREFOY.

Witnesses:
JULIUS TWISS,
GEORGE L. BARNES.