

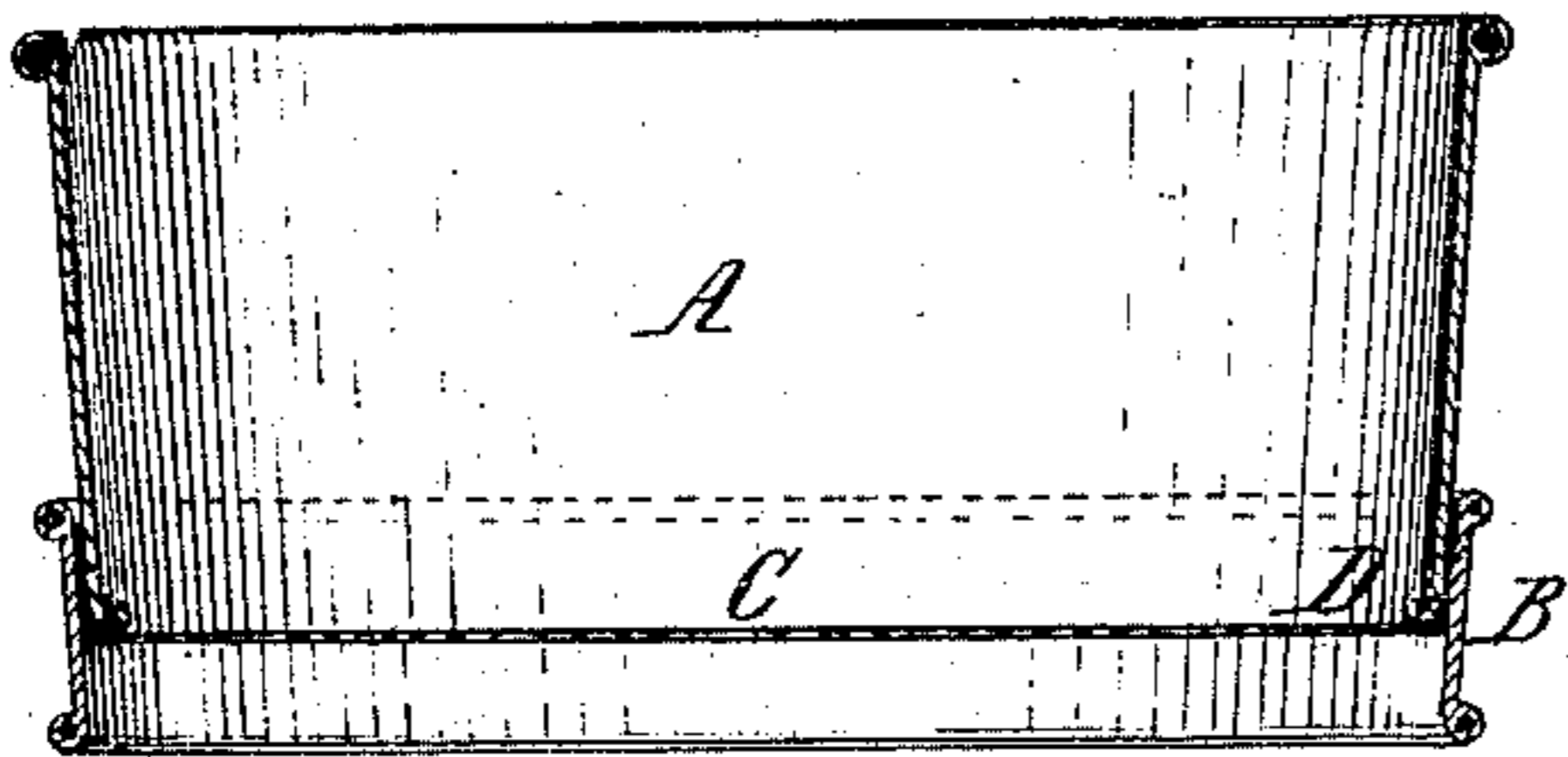
(No Model.)

W. W. HUNTLEY & A. HEINE.  
Flour Sieve.

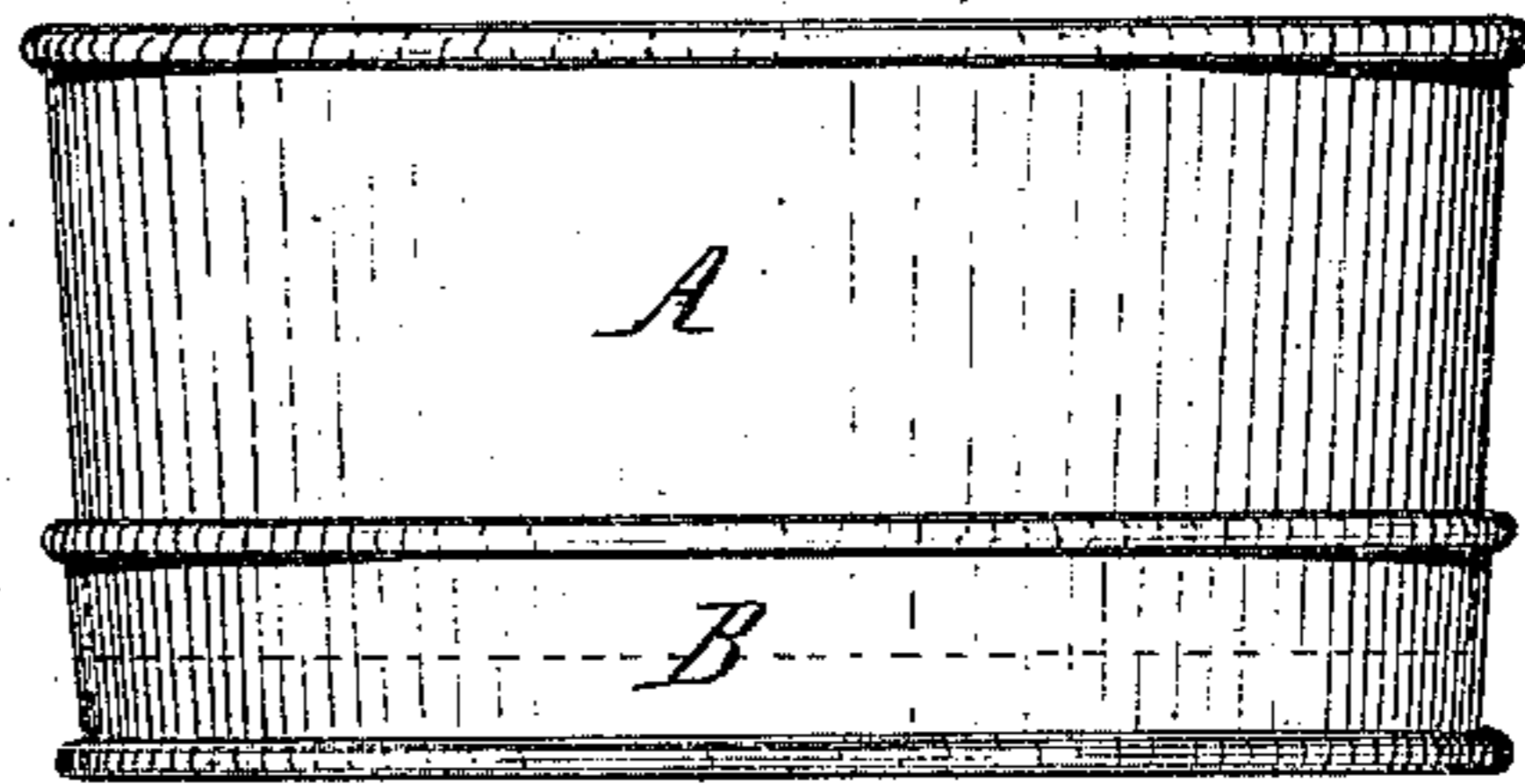
No. 232,507.

Patented Sept. 21, 1880.

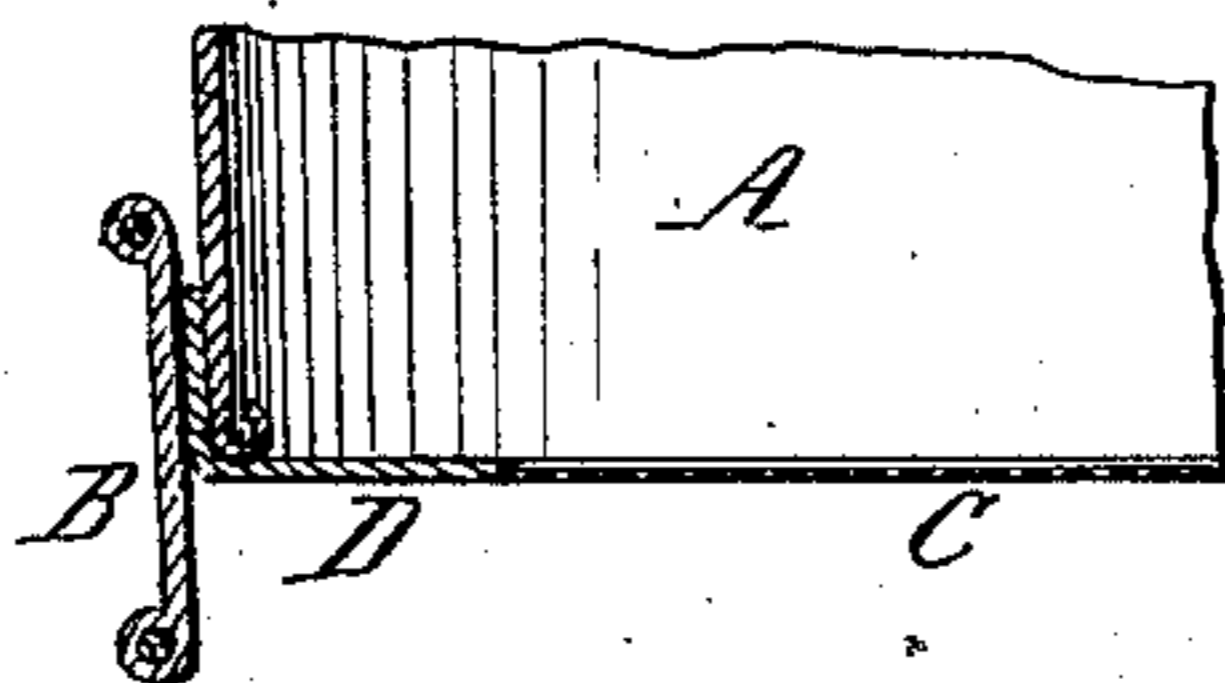
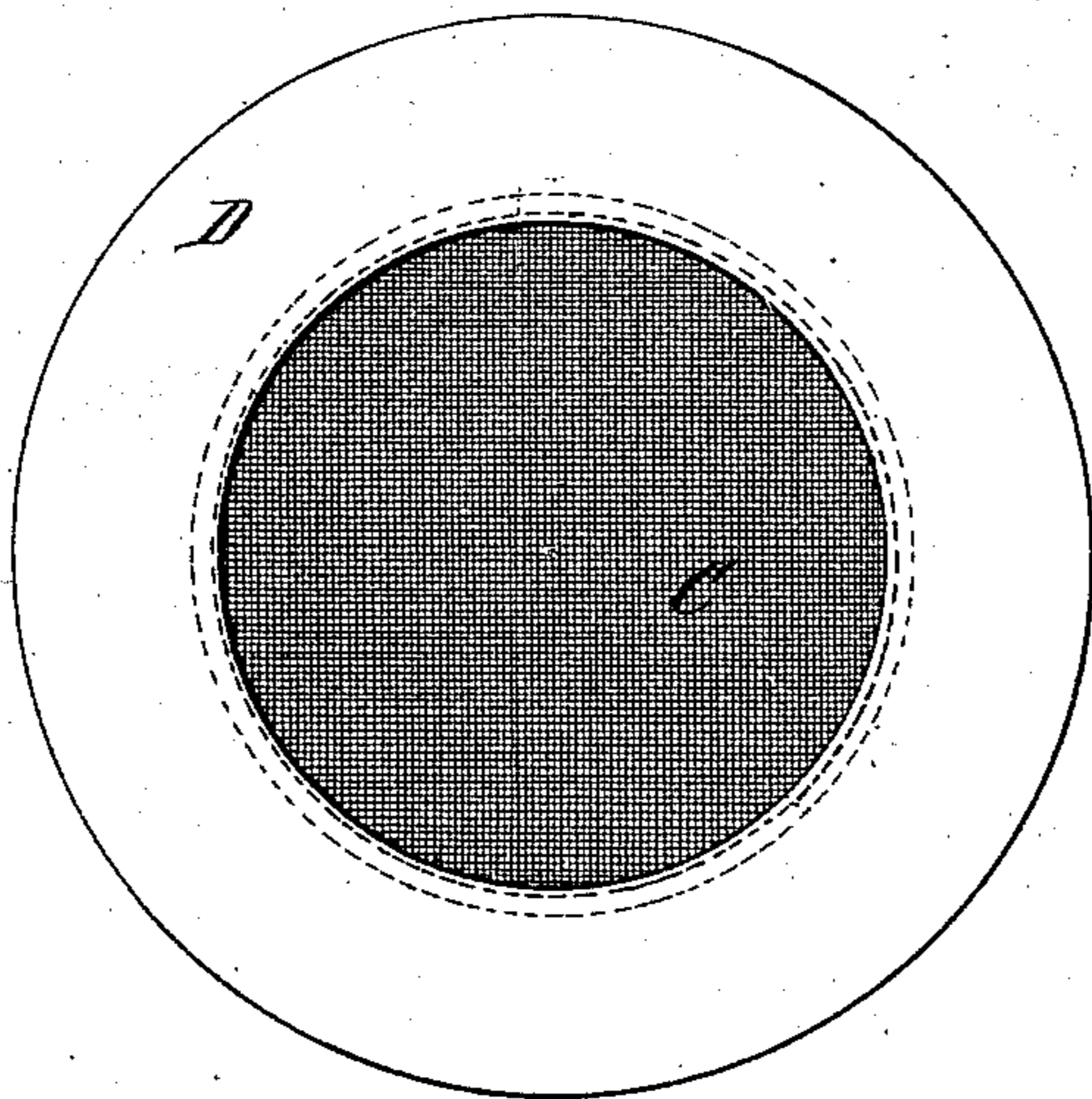
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



*Fig. 4.*

Chas. J. Duckheit  
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William W. Huntley  
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# UNITED STATES PATENT OFFICE.

WILLIAM W. HUNTLEY AND AUGUST HEINE, OF SILVER CREEK, NEW YORK,  
ASSIGNORS TO HUNTLEY, HOLCOMB & HEINE, OF SAME PLACE.

## FLOUR-SIEVE.

SPECIFICATION forming part of Letters Patent No. 232,507, dated September 21, 1880.

Application filed July 6, 1880. (No model.)

*To all whom it may concern:*

Be it known that we, WILLIAM W. HUNTLEY and AUGUST HEINE, both of Silver Creek, in the county of Chautauqua and State of New York, have invented new and useful Improvements in Flour-Sieves, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to a sieve which is designed for the use of millers in testing the separating capacity or effect of bolting-cloths of different degrees of fineness upon the ground meal or middlings.

The object of this invention is to construct the sieve in such manner that the sieve can be readily clothed with bolting-cloth of any desired degree of fineness, and that the bolting-cloth will be prevented from being torn by being repeatedly applied to the sieve.

Our invention consists in combining with a conical sieve-frame a detachable hoop of tapering form, which fits snugly upon the small end of the sieve-frame, and one or more detachable pieces of bolting-cloth adapted to be stretched over the small end of the sieve-frame by being clamped between the latter and the detachable hoop; also, in combining with the sieve-frame and detachable hoop one or more sections of bolting-cloth provided with an annular marginal piece of ticking or other suitable flexible material, which is clamped between the detachable hoop and the sieve-frame, and which receives the wear in stretching the bolting-cloth on the sieve, thereby protecting the bolting-cloth.

In the accompanying drawings, Figure 1 is a sectional elevation of our improved sieve. Fig. 2 is a side elevation thereof. Fig. 3 is a plan view of one of the sections of bolting-cloth; and Fig. 4 is a fragmentary sectional view, on an enlarged scale, of one side of the sieve.

Like letters of reference refer to like parts in the several figures.

A represents the sieve-frame, of circular or other suitable form, and constructed of wood, tin, or other suitable material.

B is a detachable hoop or ring fitting snugly upon the small end of the frame A. The latter and the hoop are made slightly tapering

or conical, so that the hoop can be secured in place by simply pressing it upon the frame A without requiring any other fastening.

C represents a circular piece of bolting-cloth, made somewhat smaller in size than the sieve-frame to which it is applied, and D is an annular piece of ticking or other strong flexible material, secured around the edge of the bolting-cloth C by sewing. The strip of ticking is made of such width that the diameter of the disk, composed of ticking and bolting-cloth, is somewhat larger than that of the sieve-frame, so that the ticking will overlap the end of the frame both inwardly and outwardly when the bolting-cloth is applied thereto.

When the sieve-frame is constructed of tin the smaller end of the frame is turned over or wired, so as to form a blunt edge, as represented in the drawings.

Upon placing the disk of bolting-cloth and ticking upon the small end of the sieve-frame and pressing the hoop B down over the ticking, the latter is clamped between the disk-frame and the hoop, and the bolting-cloth is tightly stretched over the open end of the sieve-frame.

In applying the hoop to the small end of the sieve-frame the large end of the hoop comes in contact with the fabric first, and as there is considerable space between the large end of the hoop and the small end of the sieve-frame, the cutting action which would take place if the frame and hoop were cylindrical, and which tends to tear the cloth, is avoided.

A suitable number of pieces of bolting-cloth of the different degrees of fineness usually employed in mills are furnished with each sieve, so that any one of these pieces of cloth can be secured to the sieve at will and its effect upon the meal or other material be determined. An extra ring or hoop for each piece of bolting-cloth is thereby dispensed with, and the cost of the sieve is considerably reduced.

We claim as our invention—

1. The combination of a conical sieve-frame, a detachable hoop of tapering form fitting snugly upon the small end of the sieve-frame, and one or more detachable pieces of bolting-cloth adapted to be stretched over the small

end of the sieve-frame, substantially as set forth.

2. The combination, with a sieve-frame, of  
a detachable hoop fitting snugly on the sieve-  
5 frame, and one or more pieces of bolting-cloth,  
adapted to be stretched over the sieve-frame,  
and provided with a marginal strip of ticking  
or other strong flexible material, which is

clamped between the sieve-frame and the hoop,  
substantially as set forth.

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Witnesses:

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