E. F. O'TOOLE.

Sieve.

No. 219,173. Patented Sept. 2, 1879.

Fig. 1.

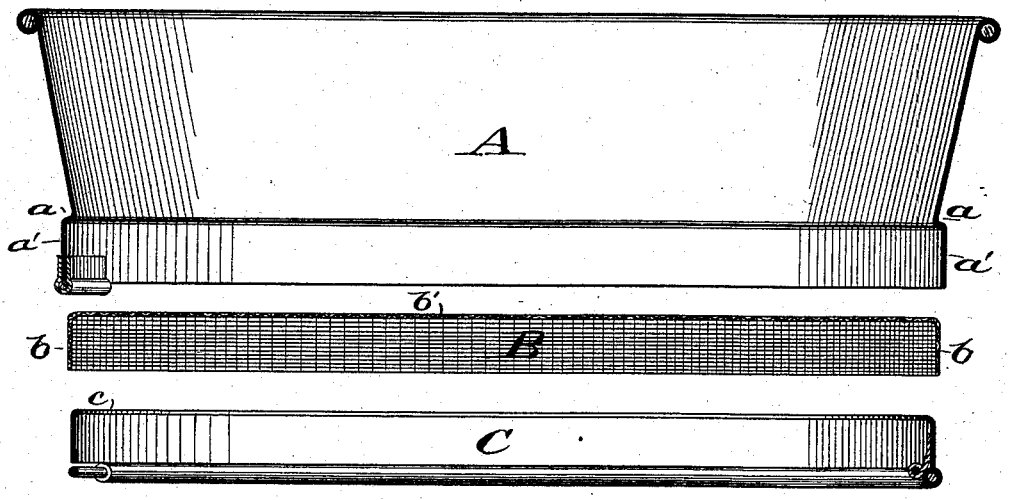
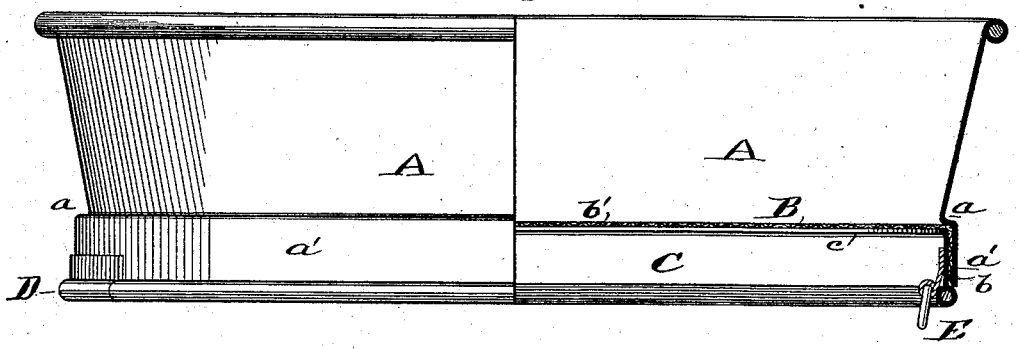


Fig. 2.



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EDWARD F. O'TOOLE, OF ST. LOUIS, MISSOURI.

IMPROVEMENT IN SIEVES.

Specification forming part of Letters Patent No. **219,173**, dated September 2, 1879; application filed February 10, 1879.

To all whom it may concern:

Be it known that I, EDWARD F. O'TOOLE, of the city of St. Louis, Missouri, have made a new and useful Improvement in Sieves, of which the following is a full, clear, and exact description, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a sectional elevation, showing the various parts of which the sieve is composed detached from each other; and Fig. 2, an elevation, partly in section, of the improved sieve.

The same letters denote the same parts.

My invention relates to improvements in sieves having removable bottoms. It has special reference to the mode of fastening the bottom in place.

It also relates to the manner of attaching the hoop used in holding the bottom, and to the provision by which the hoop can be readily withdrawn from the body of the sieve.

Referring to the drawings, A represents the sieve-body; B, the bottom, and C the hoop used in attaching the bottom to the body. The bottom is provided with a downwardly-projecting flange, *b*. The body A, just above the bottom, is contracted, so as to form a square shoulder, *a*, against which the bottom proper, *b'*, abuts. The body is extended below the shoulder *a*, partly to form a foot, *a'*, for the sieve, and also to afford a bearing, against which the bottom flange, *b*, is closely held by the hoop C.

The offset in the body formed by the shoulder *a* is large enough to receive both the flange *b* and the hoop C, and so that the upper edge, *c*, of the latter can press the bottom *b'* directly upward against the shoulder *a*. The effect of this construction is, that the bottom is securely held between the shoulder *a* and the hoop C, and the bottom is prevented from slipping out of place, as it is apt to do when the hoop, bottom, and body are attached together by swaging. At the same time the bottom can be removed by withdrawing the hoop from its position. The latter can be held in place by friction only, for in use the downward pressure upon the bottom is not applied immediately over the hoop; but as the present improvement is especially designed to provide means by which a sieve-bottom can be easily renewed, even by unskilled persons, I preferably hinge the hoop at D to the sieve-body.

The hinge aids in holding the hoop in place; but it is also valuable in preventing the hoop from becoming entirely detached from the body, in which case it is liable to be bent out of shape.

The hoop also can be more readily returned to its bearing in the sieve-body when it is made to turn upon a hinge.

The sieve is further furnished with a ring, E, that is attached to the hoop on the opposite side of the hinge. It provides means for readily getting hold of the hoop when it is desired to withdraw the latter, and it also serves as a means by which the utensil can be suspended.

I claim—

1. The body A, having the shoulder *a* and foot *a'*, the removable bottom B, having the upright flange *b*, and the removable hoop C, combined substantially as and for the purpose described.

2. The combination of the body A, removable bottom B, removable hoop C, and hinge D, substantially as described.

3. The combination of the body A, removable bottom B, removable hoop C, hinge D, and ring E, substantially as described.

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Witnesses:

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