

E. STEWART.
SIEVE.

No. 177,894.

Patented May 23, 1876.

Fig. 1.

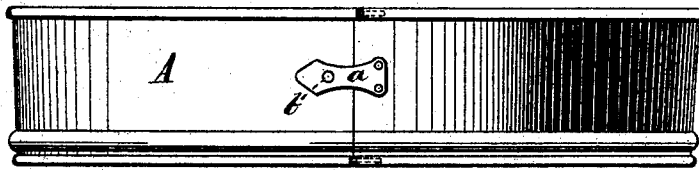


Fig. 2.

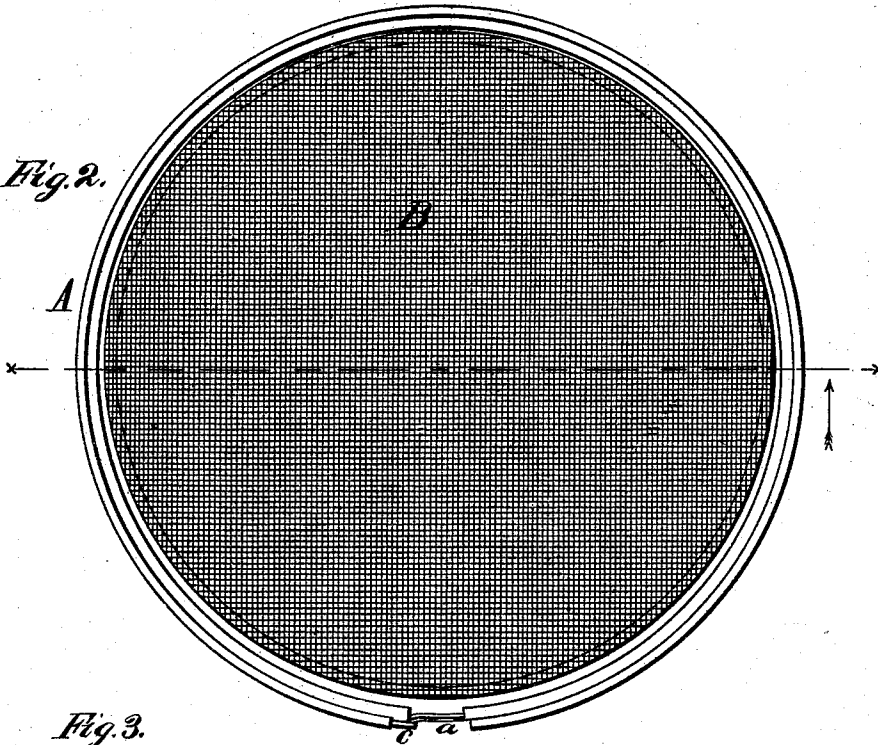
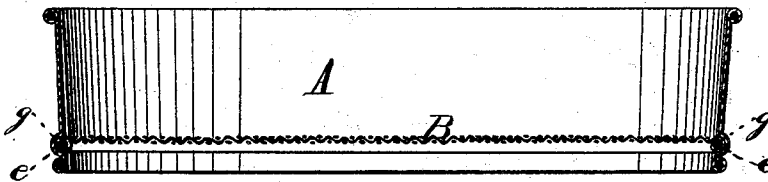


Fig. 3.



WITNESSES
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UNITED STATES PATENT OFFICE.

EDWARD STEWART, OF FORT MADISON, IOWA, ASSIGNOR OF ONE-HALF
HIS RIGHT TO W. H. KRETSINGER, OF SAME PLACE.

IMPROVEMENT IN SIEVES.

Specification forming part of Letters Patent No. **177,894**, dated May 23, 1876; application filed
April 20, 1876.

To all whom it may concern:

Be it known that I, EDWARD STEWART, of Fort Madison, in the county of Lee, and State of Iowa, have invented a new and valuable Improvement in Sieves; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a front elevation of my sieve. Fig. 2 is a plan view of the same. Fig. 3 is a transverse vertical sectional view thereof; and Fig. 4, sectional view of the meshes of my sieve.

This invention has relation to sieves; and the nature of my invention consists in a sieve the hoop or body of which is grooved by upsetting the metal so as to receive wire-meshes, and separable to allow the same to be readily removed at pleasure, as will be hereinafter explained.

My object is to so construct the hoop of the sieve, and the sieve itself, that the latter can be readily detached from the hoop, thus allowing meshes of different sizes to be used in the same hoop.

In the drawings hereunto annexed, A designates the hoop or body of my improved sieve, the ends of which are separable, and when they are connected are secured together by means of a spring-catch, *a*, and a pin, *b*. The upper and lower edges of the hoop are bound and stiffened by a wire, the extremities of which, indicated by the letter *c*, enter tubular portions of the hoop when the ends thereof

are lapped together and fastened, thus stiffening and strengthening the connection. B designates the sieve proper, which is preferably composed of woven wire secured to a wire hoop, *e*, in any suitable manner. This hoop *e* is fitted into a groove, *g*, formed in the body A of the sieve by upsetting the sheet metal of which this body is made.

In practice, I contemplate using sieves B, the meshes of which will be of different gages, according to the material to be sifted—all the sieves being of the same diameter and adapted for the same hoop. The sieves may be sustained by cross-wire braces.

It will be seen from the above description that by detaching the ends of the body or hoop A the sieve B can be removed from its groove and a sieve of a different gage substituted. I am thus able to use sieves of different gages in the same hoop.

What I claim as new, and desire to secure by Letters Patent, is—

1. A sieve-hoop having separable ends and a groove, E, substantially as and for the purposes described.

2. A sieve-hoop the body of which has separable ends, and a fastening therefor, in combination with a detachable bottom, substantially as described, and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

EDWARD STEWART.

Witnesses:

JOHN F. ACKER,
C. H. McEWEN.