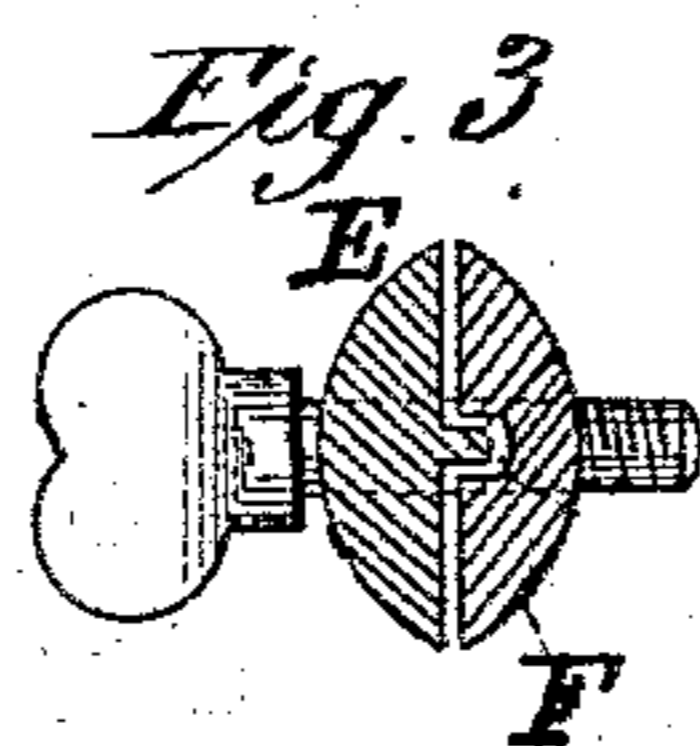
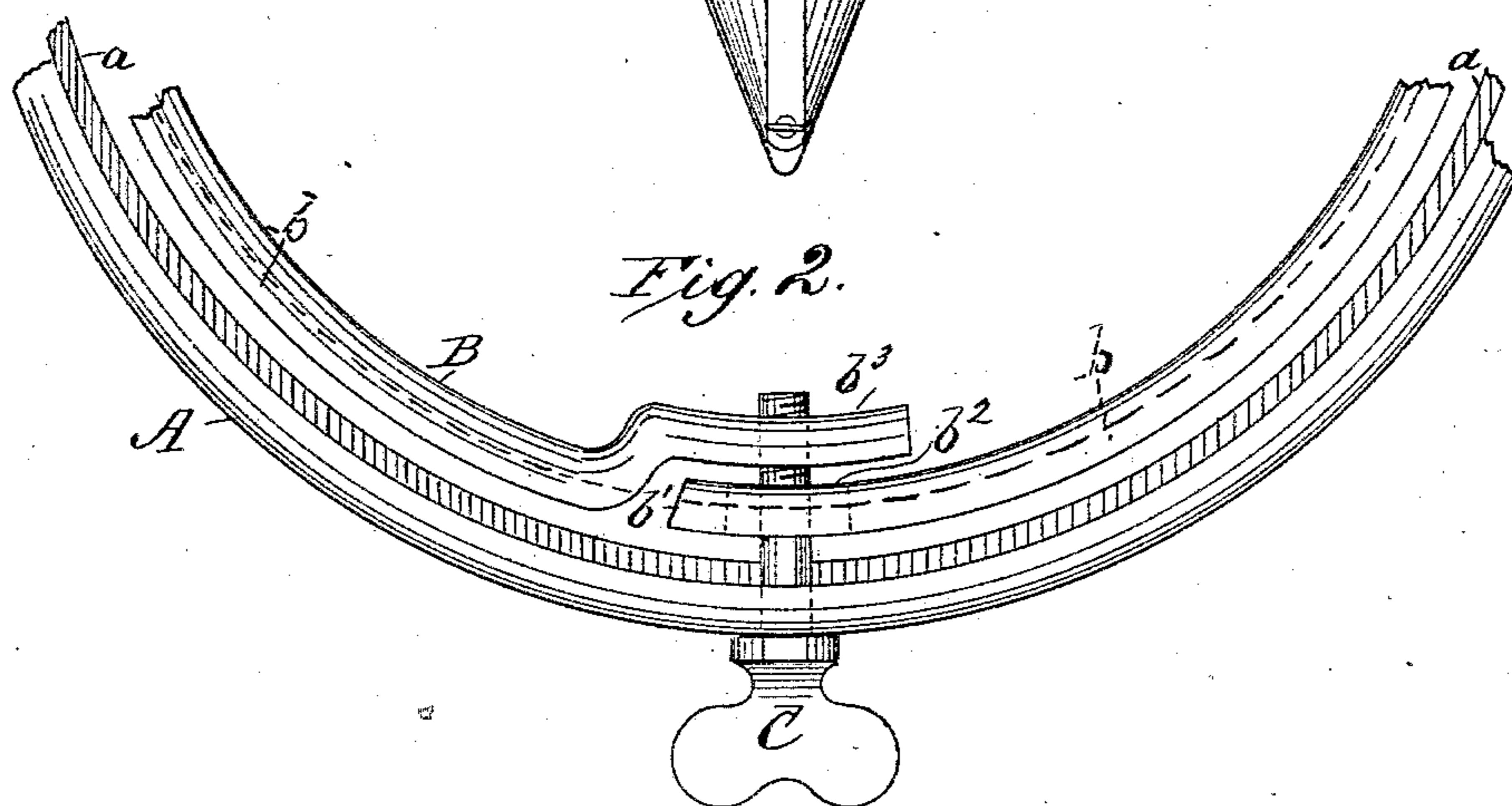
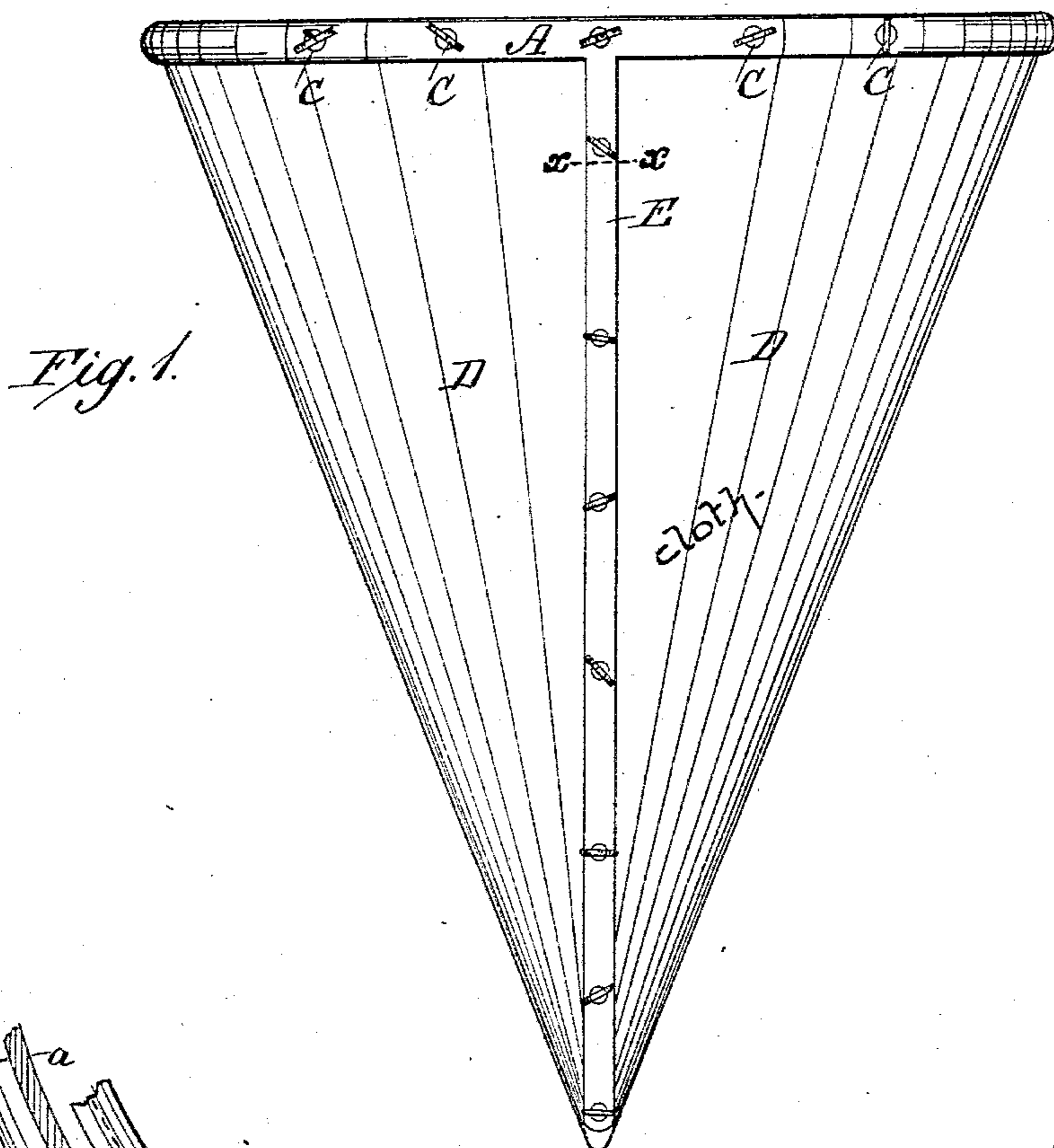


(No Model.)

J. KIRBY.
AMALGAM STRAINER.

No. 315,637.

Patented Apr. 14, 1885.



WITNESSES:

W. W. Hollingsworth
John C. Kemon

INVENTOR:

Jeremiah Kirby
BY *Munn & Co*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JEREMIAH KIRBY, OF MARYSVILLE, MONTANA TERRITORY, ASSIGNOR TO
ALCANDRE LESPERANCE AND JOHN B. NEVEN, BOTH OF SAME PLACE.

AMALGAM-STRAINER.

SPECIFICATION forming part of Letters Patent No. 315,637, dated April 14, 1885.

Application filed September 6, 1884. (No model.)

To all whom it may concern:

Be it known that I, JEREMIAH KIRBY, a citizen of the United States, residing at Marysville, in the county of Lewis and Clarke, Montana Territory, have invented certain new and useful Improvements in Amalgam-Strainers, of which the following is a description.

Figure 1 represents a side elevation of my improved ore-separator. Fig. 2 is a part of a plan view of the same to an enlarged scale. Fig. 3 is a cross-section through *xx* in Fig. 1.

My invention relates to apparatus used for separating quicksilver from gold and silver amalgam where ores of gold and silver are treated by the amalgamation process; and it consists in the detailed construction hereinafter described, whereby the same can be more easily constructed and repaired than as at present constructed.

Prior to my invention the amalgam was placed in a funnel-shaped canvas bag provided with an iron ring at the top. The sheet of canvas was cut out and sewed together to form the funnel, and united to the iron ring at the top by turning the edge over said ring and sewing it. When this edge wore out from contact with the ring, it had to be cut off and resewed over it. When made according to my invention, this sewing can be dispensed with, and the worn edge of a funnel-shaped bag taken up in a few minutes.

I will now describe my invention with reference to the accompanying drawings, in which similar letters, where used in the different figures, indicate corresponding parts.

A is a solid ring united to another ring, B, by thumb-screws C. D is the funnel-shaped canvas bag cut out of a sheet and united to form a funnel by two strips, E and F, of which E is securely fastened to or made solid with ring A, and F is securely fastened to or made solid with ring B. These strips are provided with a tongue and groove similar to those shown in Fig. 3. The edges of the canvas are placed between the strips and secured by the thumb-screws. Ring B is made split, and of the form shown in Fig. 2, to admit of its being drawn up tight against ring A when the thumb-screws C are tightened. The edge of

the funnel-shaped bag D is placed between the rings A and B, and is further kept from slipping by the tongue *a*, formed on ring A, pressing it into groove *b*, formed on ring B. The rings A and B, as also the strips E and F, are made rounded on the sides opposite those which press against the edges of the bag. One end, *b*³, of ring B is bent or turned inwardly, and extended beyond and caused to lap its opposite end, *b*'. The end *b*' of said ring is provided with a longitudinal slot, *b*², through which passes a thumb-screw, C, also passing through and from the ring A, and entering and passing through the end *b*³ of the ring B, to effect the clamping together of said ends and the rings A B themselves upon the bag.

When the edges of the bag become worn by contact against the rings, they can be cut off and a new hold taken on the unworn portion of the bag.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the bag, of the split and solid rings and the binding-screw, said screw clamping the rings upon the bag and the ends of the split ring together, substantially as and for the purpose set forth.

2. The combination, with the funnel-shaped bag, of the clamp-rings having the dependent clamp-strips, together with binding-screws, substantially as and for the purpose set forth.

3. The ring A, provided with a tongue, *a*, on the inside of it, and with a strip, E, also provided with a tongue, and securely fastened to or made solid with it, substantially as shown, and for the purpose specified.

4. The combination, with the bag, of the solid and split rings having the dependent clamp-strips and the clamp or binding screws, said rings and strips having tongues and grooves, substantially as and for the purpose set forth.

5. The combination, with the bag, of the solid and split rings and the binding-screw, said split ring being provided with a groove to receive a tongue of the solid ring, and with a slot in one end, its other end having an in-

wardly turned or bent portion lapping its first-named end, substantially as and for the purpose set forth.

6. The combination of ring A, provided
5 with strip E, with split ring B, provided with a strip, F, securely fastened to or made solid with it, and having one end, b^3 , of said ring turned inward and overlapping the other end, b' , having the longitudinally-extending slot

b^2 , and thumb-screws C, for securing said rings to the edges of the funnel-shaped bag, substantially as described and shown, and for the purpose set forth.

JEREMIAH KIRBY.

Witnesses:

C. J. BROUILLETTE,
NELSON MALLETT.