

(No Model.)

E. OLIVER.
RIDDLE OR SIEVE.

No. 378,458.

Patented Feb. 28, 1888.

Fig. 1.

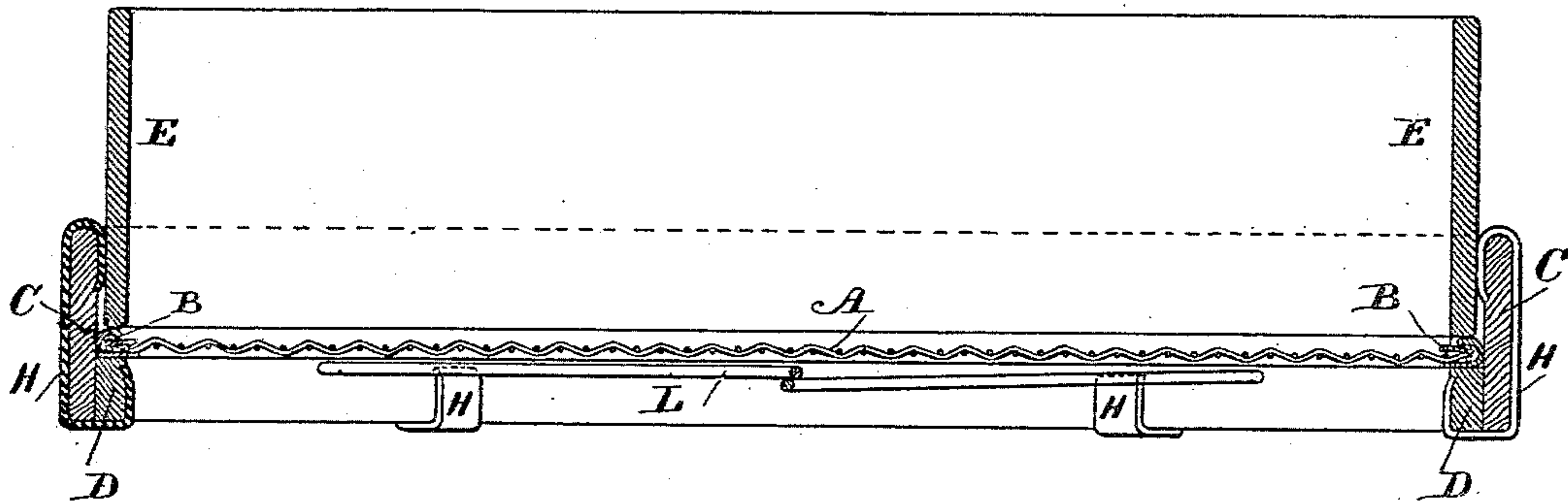


Fig. 2.

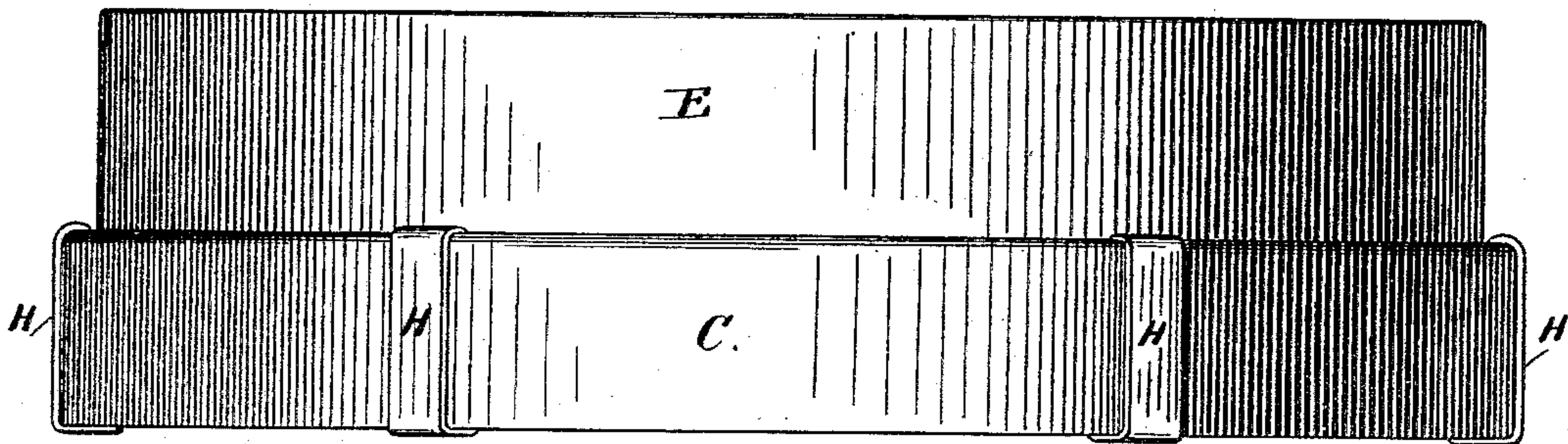
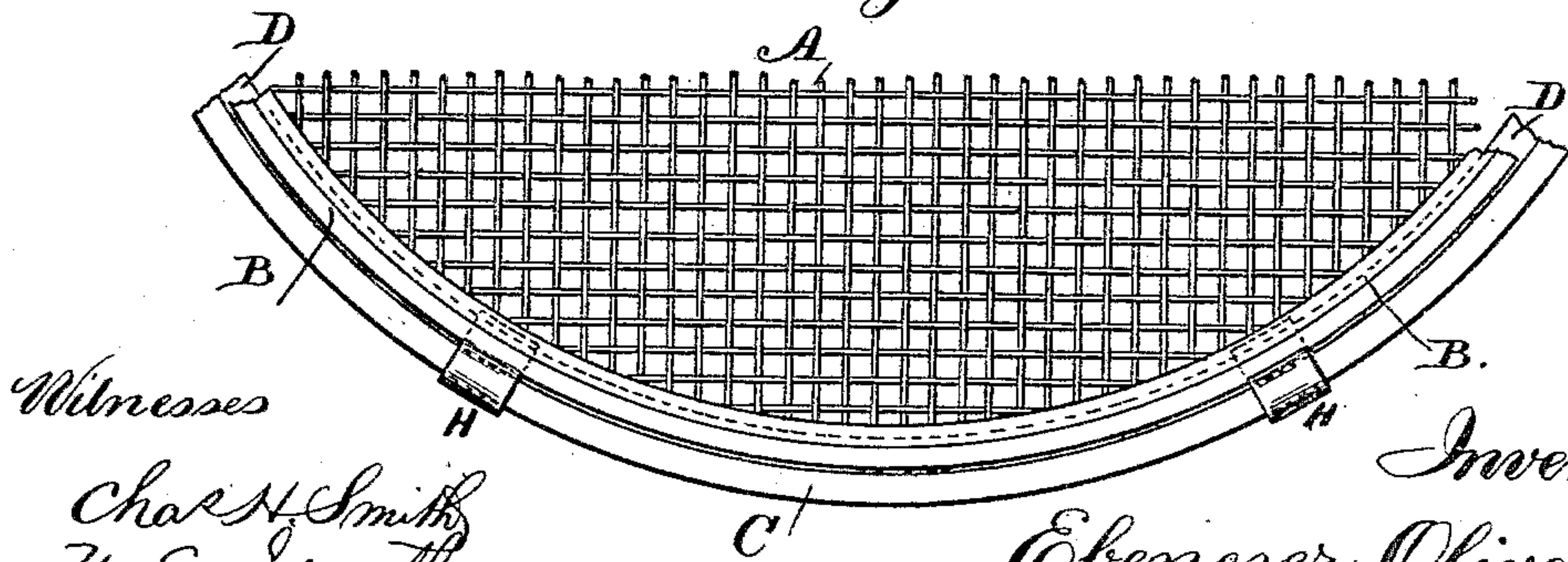


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

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RIDDLE OR SIEVE.

SPECIFICATION forming part of Letters Patent No. 378,458, dated February 28, 1888.

Application filed October 14, 1886. Serial No. 216,212. (No model.)

To all whom it may concern:

Be it known that I, EBENEZER OLIVER, of the city and State of New York, have invented an Improvement in Riddles or Sieves, of which the following is a specification.

In Letters Patent No. 234,605, granted to me, a riddle or sieve is set forth in which the woven wire is surrounded by a strip of sheet metal folded to retain the ends of the wires.

In my present invention I make use of a similar screen; but I construct the wooden hoops or body in such a manner as to obtain greater strength, and to prevent the splitting of the hoop that surrounds the screen, as has sometimes happened.

In the drawings, Figure 1 is a vertical section of the screen or riddle. Fig. 2 is an elevation of the same, and Fig. 3 is a partial plan view showing the body-hoops.

The woven-wire screen A is surrounded by the band B of sheet metal, folded in substantially the manner set forth in aforesaid patent, and there is a body-hoop, C, and an inner hoop, D, forming a ledge, upon which the edges of the screen rest, and there is a cylindrical body, E, within the body-hoop C and resting at its lower edge upon the band B.

Heretofore the cylindrical body E has been connected by metallic straps to the body-hoop C; but I have found in practice that this body-hoop C is liable to split horizontally near the line of the screen A. To avoid this difficulty I make use of the clamping-bands H, of hoop-iron or other metal, placed at suitable intervals around the body-hoop C. The upper end of each clamping-band H is folded over to inclose the upper edge of the body-hoop C, and the band is passed down outside the body-hoop, and it is bent inwardly below the lower edge of the body-hoop C and the inner hoop, D, and the end of the clamping-band is bent up within this inner hoop, D, whereby each

clamping-band becomes a rigid clip to connect the inner hoop, D, to the body-hoop C, and at the same time to strengthen these wooden hoops, so that they will not separate from each other or be liable to slip; and I find that usually it is only necessary to retain the cylindrical body E in its place by friction, because the same can fit sufficiently tight to remain in its place; and it can be easily removed for inserting a new screen or for changing the screen for one of a different mesh; and in use these parts are not liable to separate, because the hands are usually placed beneath the body-hoop in handling the screen.

Wire braces or stays L are provided, as usual, beneath the sieve A.

I claim as my invention—

1. The combination, with the screen or riddle A, of the body-hoop C and inner hoop, D, and the vertical metallic clamping-bands H, inclosing the top edge of the body-hoop C and the bottom edges of the body and inner hoops, and the removable cylindrical body E, substantially as specified.

2. The combination, with the screen A, having a metallic band around its edge, of the inner hoop, D, upon which the edges of the screen rest, the body-hoop C, inclosing the screen and the inner hoop, the vertical metallic clamping-bands H, inclosing the top edge of the body-hoop C and the bottom edges of the body and inner hoops C D, and the removable cylindrical body E, within the body-hoop C, and resting at its lower edge upon the band B of the screen, substantially as set forth.

Signed by me this 11th day of October, A. D. 1886.

E. OLIVER.

Witnesses:

GEO. T. PINCKNEY,
WILLIAM G. MOTT.