

E. J. MCGURREN.  
Sieve.

No. 224,598.

Patented Feb. 17, 1880.

FIG. 1.

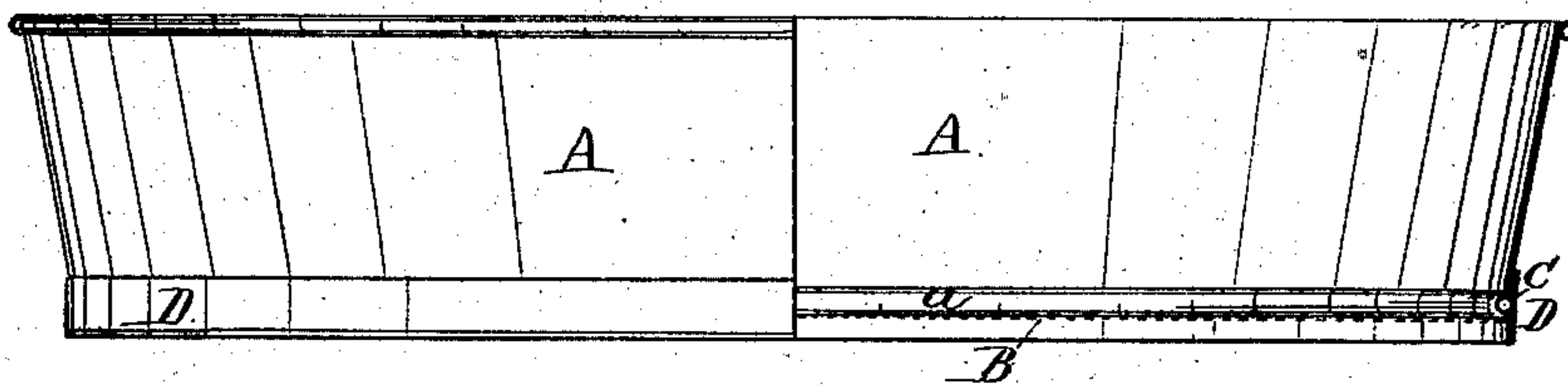


FIG. 3.

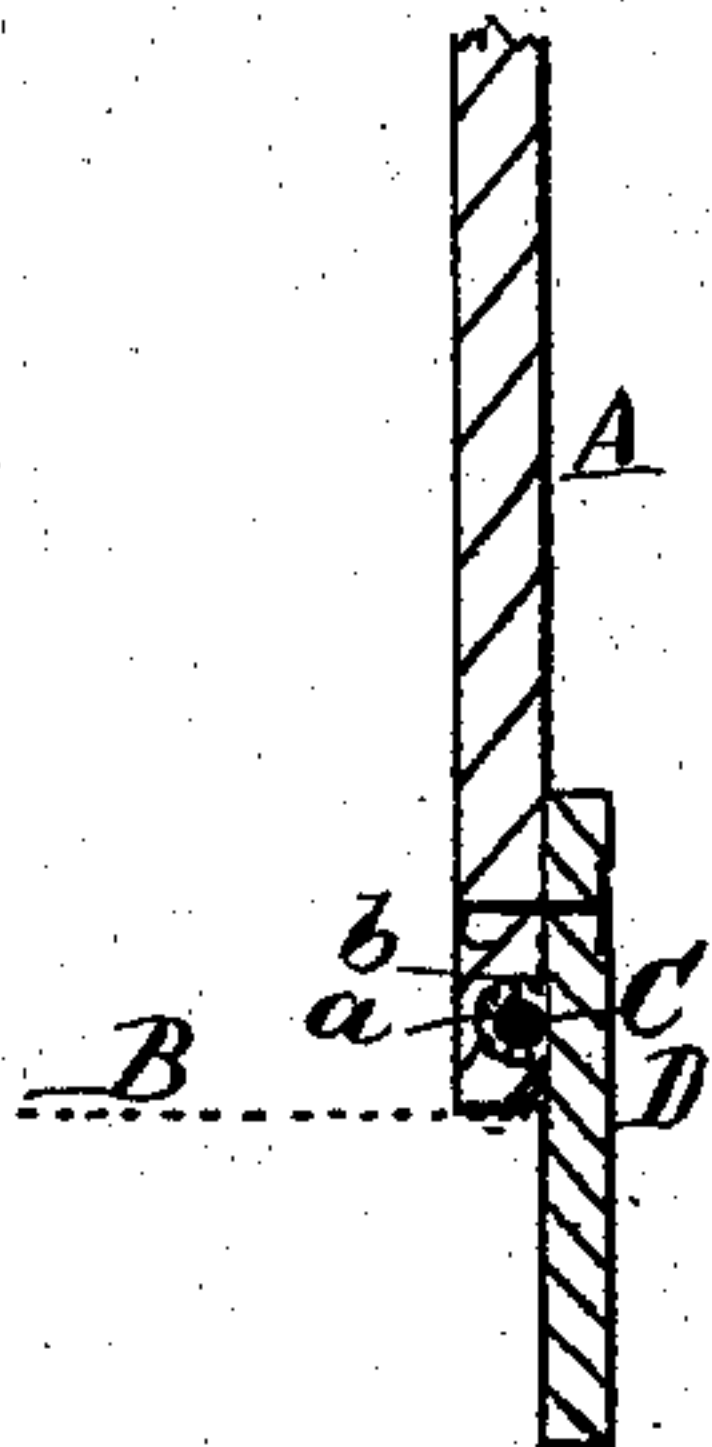
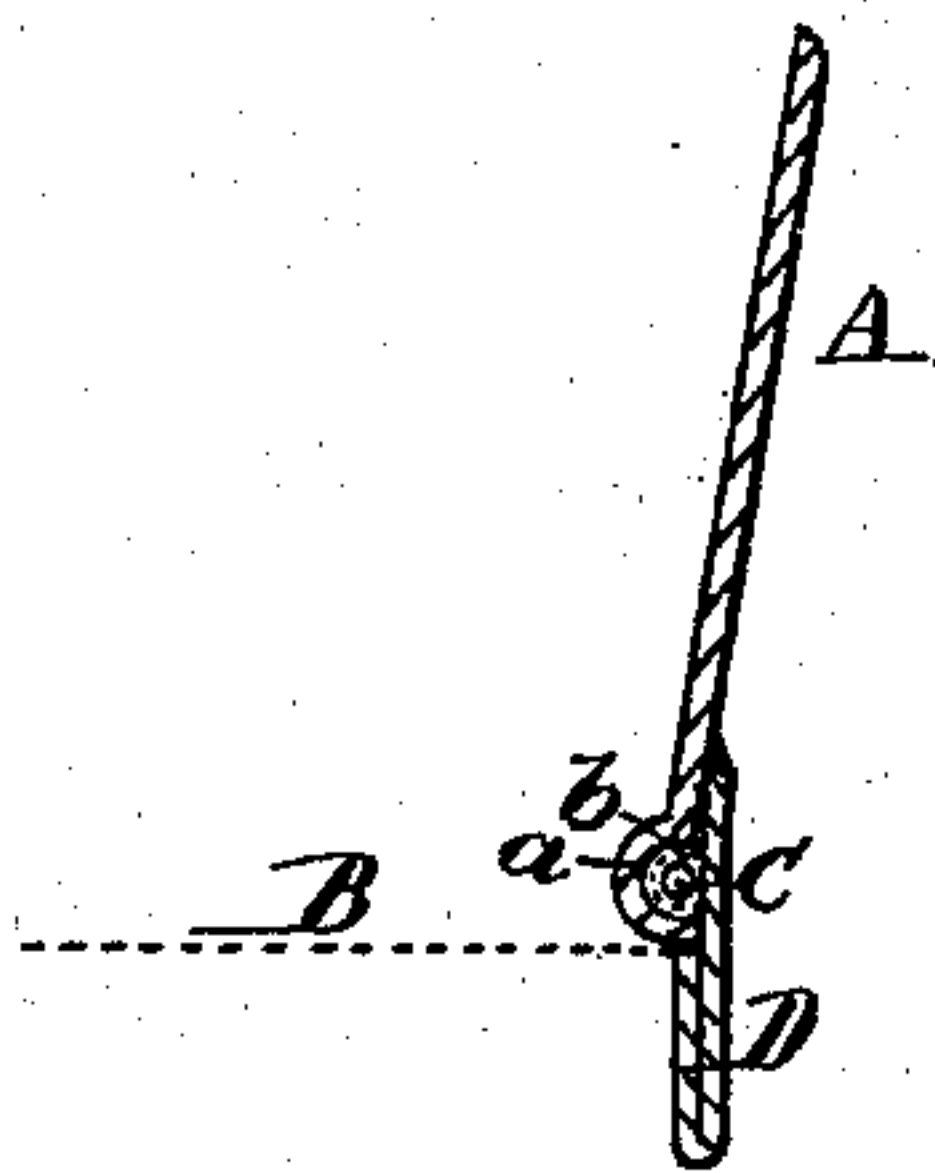


FIG. 2.



WITNESSES:

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INVENTOR:

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# UNITED STATES PATENT OFFICE.

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WIRE COMPANY, OF SAME PLACE.

## SIEVE.

SPECIFICATION forming part of Letters Patent No. 224,598, dated February 17, 1880.

Application filed December 27, 1879.

*To all whom it may concern:*

Be it known that I, EDWARD J. MCGURREN, of the city of St. Louis, in the State of Missouri, have invented a certain new and  
5 useful Improvement in Sieves, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

10 My improvement relates to the joint between the hoop and wire cloth or gauze; and it consists in forming near the bottom of the hoop, at the outer side, a groove, into which the edge of the gauze is forced and retained  
15 by a wire or string. Over the joint the foot band or batten is secured in the ordinary manner.

This improvement applies to both metal and wooden hoop-sieves.

20 In the drawings, Figure 1 shows a metal sieve, half in side view and half in section, with a view of the interior. Fig. 2 is an enlarged detail section of the joint. Fig. 3 is an enlarged detail section of the joint as applied  
25 to a wooden sieve.

A is the hoop. This has an outer groove, *a*, formed in it at the lower edge, to receive the outer edge, *b*, of the gauze or straining-cloth

B. (Shown in dotted lines.) The edge *b* is held in the groove *a* by a surrounding wire or  
30 string, C, which occupies the groove outside the gauze.

The foot-hoop is seen at D. It covers the groove, and serves as a foot for the sieve, to preserve the gauze from wear when the sieve  
35 is down.

In the metal sieve the foot D is fixed on by solder. In the wooden sieve the foot or batten D is tacked on, as usual.

Having described my invention, what I  
40 claim is—

1. The described process of manufacture of sieves by bending the edge *b* of the cloth or gauze around the lower edge of the hoop A and confining it in the groove *a* by an en-  
45 circling wire or string, and covering the joint by a surrounding band or foot, D.

2. The sieve composed of the hoop A, having a groove, *a*, gauze or cloth B, held in said groove by string or wire C, and foot D, sub-  
50 stantially as set forth.

EDWARD J. MCGURREN.

Witnesses:

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