J. DILDINE.

Adjustable-Sieve.

No. 210,243. Patented Nov. 26, 1878.

Fig. 1

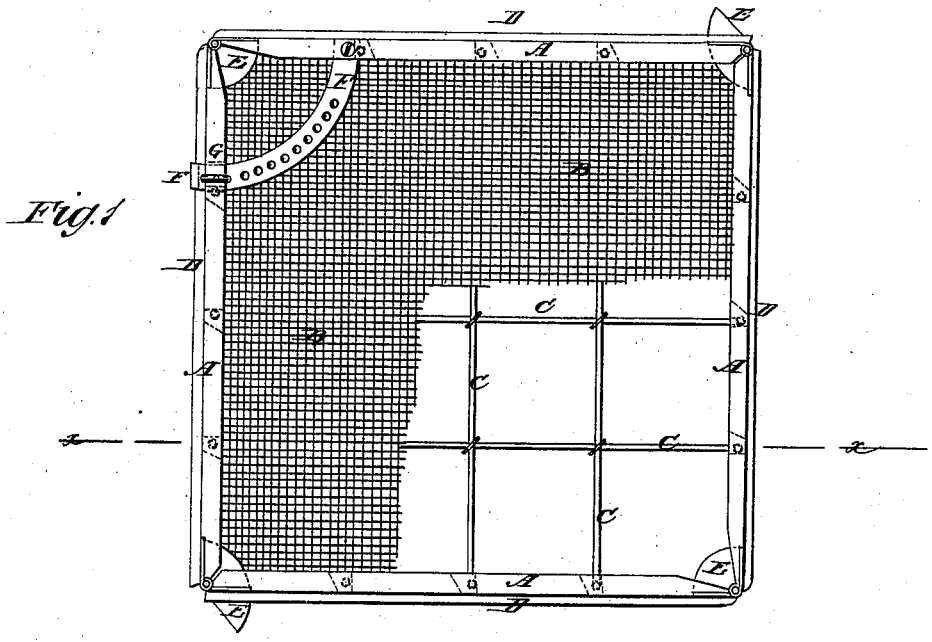


Fig. 2.

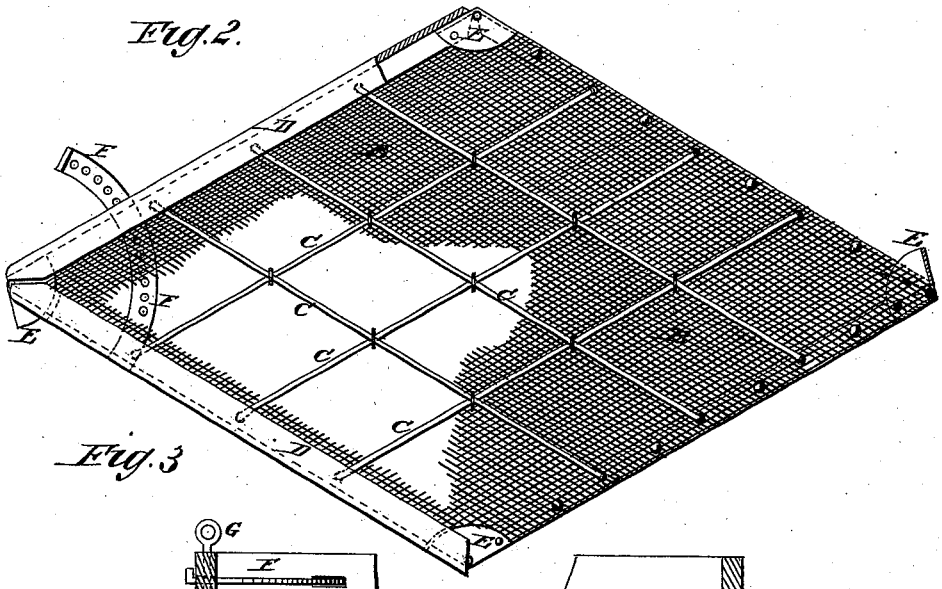
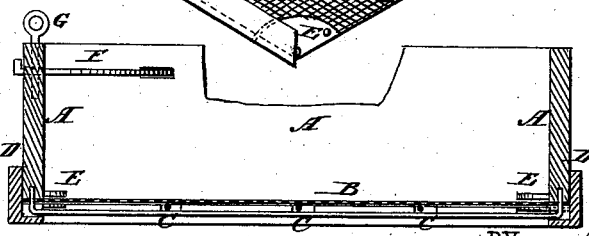


Fig. 3



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JOHN DILDINE, OF MILTON, PENNSYLVANIA.

IMPROVEMENT IN ADJUSTABLE SIEVES.

Specification forming part of Letters Patent No. **210,243**, dated November 26, 1878; application filed October 30, 1878.

To all whom it may concern:

Be it known that I, JOHN DILDINE, of Milton, in the county of Northumberland and State of Pennsylvania, have invented a new and useful Improvement in Adjustable Sieves, of which the following is a specification:

Figure 1 is a top view of my improved sieve, part being broken away to show the construction. Fig. 2 is a bottom view of the same, parts being broken away to show the construction. Fig. 3 is a vertical cross-section of the same, taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved sieve for sifting flour, meal, seeds, and other things requiring to be sifted or separated, which shall be so constructed that it may be readily adjusted to make the meshes smaller or larger as may be required.

The invention consists in an adjustable sieve formed of the bars, hinged to each other at their adjacent ends, the wire-cloth, and the cross-wires; in the combination of strengthening-sectors with the adjacent hinged ends of the bars, the wire-cloth, and the cross-wires; in the combination of the curved arm and its screw or pin with the hinged bars, the wire-cloth, and the cross-wires; and in an adjustable sieve formed of the hinged bars, the wire-cloth, the cross-wires, the angle-strips, the strengthening-sectors, the curved bar, and its screw or pin, as hereinafter fully described.

A are the side bars or frame of the sieve, the ends of which are beveled upon their inner sides and are hinged to each other, so that the frame may be adjusted into rectangular shape, as shown in Fig. 1, or into rhomboidal shape, as shown in Fig. 2.

To the lower edges of the bars A are attached the edges of the wire-cloth B, which may be made of a coarser or finer mesh, according to the use to which the sieve is to be applied.

The wire-cloth B may be strengthened and supported against sagging by cross-wire C, the ends of which are bent upward at right angles, and are inserted in holes in the lower edges of the bars A.

The wires C may be loosely connected at their points of intersection by wire rings or loops. The connection between the wire-cloth B and wires C and the lower edges of the frame A is strengthened by the angle-strips D, which overlap the lower edges and the lower parts of the outer sides of the bars A and are secured to the said bars.

The frame A is strengthened, and its bars are kept in the same horizontal plane by sectors E, which are inserted in slits in the lower parts of the adjacent ends of the said bars, and are attached to one of the said ends and work freely in the other ends.

With this construction, when the frame A is in rectangular form, the meshes of the wire-cloth B will be opened to their greatest extent, and the said meshes will be contracted more and more as the frame A is adjusted into rhomboidal form and moved farther and farther from the rectangular form.

The frame A is locked in any position into which it may be adjusted by the curved arm F, attached to one of the bars A near one end, and passing through a slot in the adjacent bar A near its end, where it is secured in place by a screw or pin, G, passing in through the upper edge of the said bar A and through one or another of the holes through the said curved arm F, as shown in Figs. 1, 2, and 3.

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

1. An adjustable sieve formed of the bars A, hinged to each other at their adjacent ends, the wire-cloth B, and the cross-wires C, substantially as herein shown and described.

2. The combination of strengthening-sectors E with the adjacent hinged ends of the bars A, the wire-cloth B, and the cross-wires C, substantially as herein shown and described.

3. The combination of the curved arm F and its screw or pin G with the hinged bars A, the wire-cloth B, and the cross-wires C, substantially as herein shown and described.

4. An adjustable sieve formed of the hinged bars A, the wire-cloth B, the cross-wires C, the angle-strips D, the strengthening-sectors E, the curved bar F, and its screw or pin G, substantially as herein shown and described.

JOHN DILDINE.

Witnesses:
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