A. S. CLOUGH.
Grain-Screen.

No. 206,663. Patented Aug. 6, 1878.

Fig. 1.

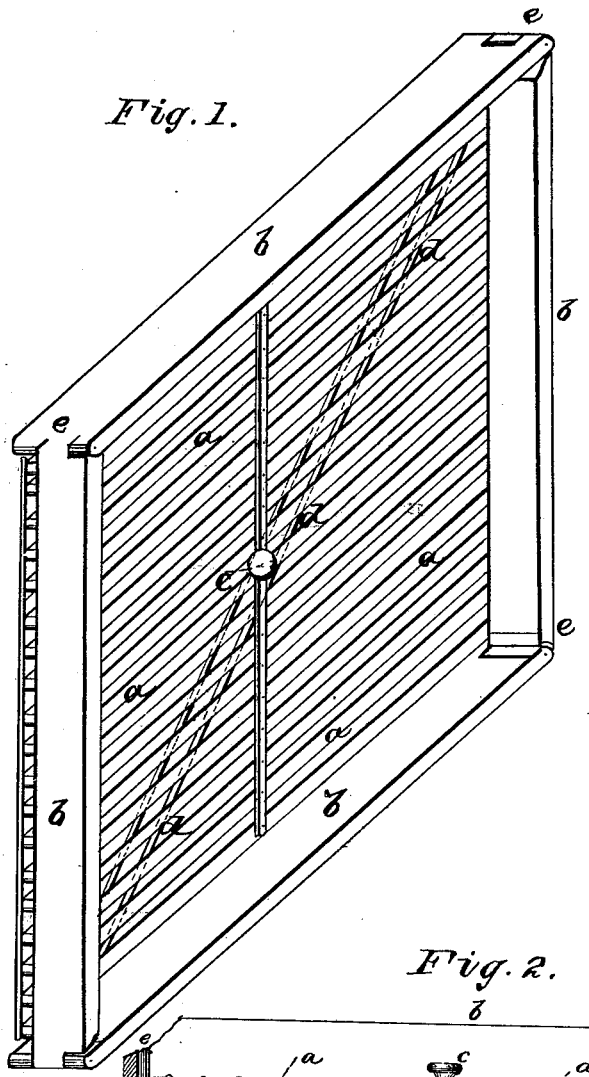
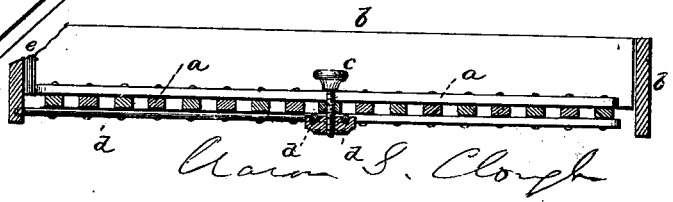


Fig. 2.



Witnesses:

G. A. Baumhall
607 Seventh St. N.W.

G. Alfred Hall

Alain S. Clough
Inventor.

per: H. C. Cady
Attorney.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

AARON S. CLOUGH, OF MEREDITH, NEW HAMPSHIRE.

IMPROVEMENT IN GRAIN-SCREENS.

Specification forming part of Letters Patent No. **206,663**, dated August 6, 1878; application filed May 27, 1878.

To all whom it may concern:

Be it known that I, AARON S. CLOUGH, of Meredith, in the county of Belknap and State of New Hampshire, have invented certain new and useful Improvements in Grain Screens or Riddles; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

In the drawing, Figure 1 is a perspective view of a sieve or screen with my improvements. The adjustable corners of the four sides are shown by the inclination presented in the said Fig. 1. Fig. 2 is a view of a transverse section of such a sieve.

Like letters denote like parts.

a a a are parallel bars or slats, turning on pivots on two sides or ends, *b b*, of the sieve. *c* is a set-screw clamping the rods *d d*, and thereby holding the bars or slats of the screen adjusted as desired, having reference to the material passing between the bars.

The object of my invention is to provide means whereby the interstices or spaces between the adjustable bars of a sieve or screen may be readily and easily regulated to, and held at, any size of opening desired; and it consists in the bars *a a* and a set-screw, and elastic regulating-rods sliding through the same, so that the tension of the rods maintains the adjustment, which is further secured by the set-screw. The bars *a a* being pivoted in the sides *b b*, and the corners *e e e e* of the sieve being movable on pivots or hinges, the same turn as desired. The sides *b b* are raised, so as to hold the material to be screened or sifted.

Thus farmers, seedsmen, and others may be furnished a single sieve that will sift and separate almost any kind of grain, seed, or other article and assort it, so as to produce a uniform quality or size thereof.

The bars *a a* are so secured at their ends as to turn on the pivots by which they are held only as desired, and as necessary for the purposes required, and they may be of any material. I prefer them of wood when suitable. The set-screw *c* may also be of any suitable material, preferably of brass, and should be so constructed that the rods *d d*, passing through the same, will extend or contract the interstices or spaces between the bars or slats of the sieve, and be held in position, as may be necessary for the work to be accomplished.

The rods *d d* are fastened, one at one corner, *e*, of the sieve, and the other at the corner *e* thereof diagonally opposite. A strip across the bars *a a*, through which the screw *c* passes, may be fastened to the bars. The rods *d d* may also be of any material suitable; but I prefer them of iron.

I claim as my invention—

1. In combination with the adjustable bars or slats of a screen or sieve, the elastic rods *d d* and clamping-screw *c*, for the purposes described.

2. In an adjustable sieve or screen, the elastic rods *d d* and set-screw *c*, operating as shown and described.

3. An adjustable screen with pivoted corners, in combination with elastic rods to hold the sieve when fixed, one of the rods being fastened to the screen at one corner, the other to the diagonally-opposite corner, and both free to move longitudinally through a set-screw or guide near the center.

4. The combination of the bars *a a* with the sides *b b* and the rods *d d* and set-screw *c* in an adjustable screen, as and for the purposes shown and set forth.

5. The combination, in a screen or riddle having adjustable bars, of elastic guide-rods and a clamping device.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

AARON S. CLOUGH.

Witnesses:

GEO. SANBORN,

S. W. ROLLINS.