

C. F. BAYLOR.

Grain Screen.

No. 58,050.

Patented Sept. 18, 1866.

Fig: 1.

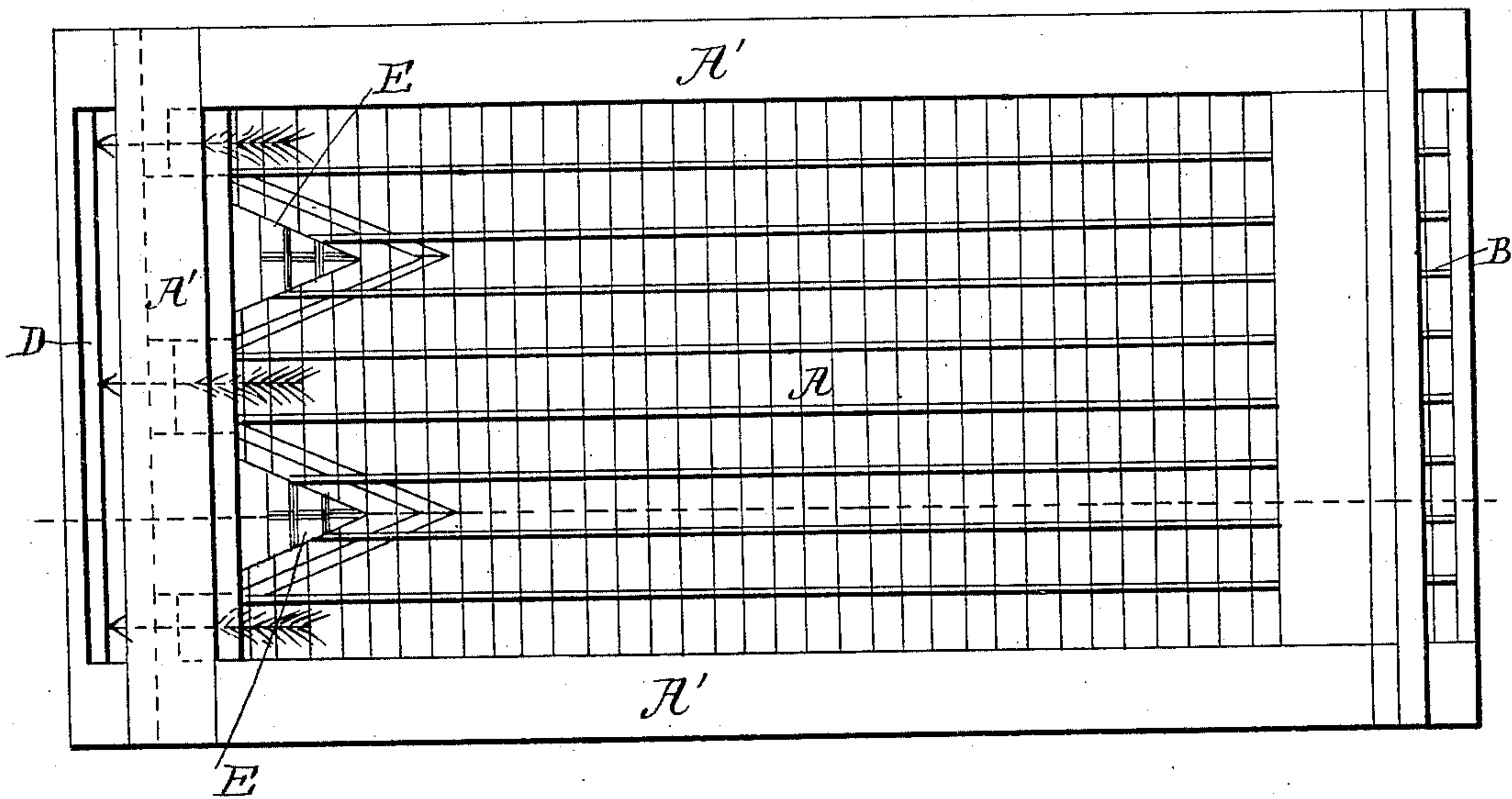
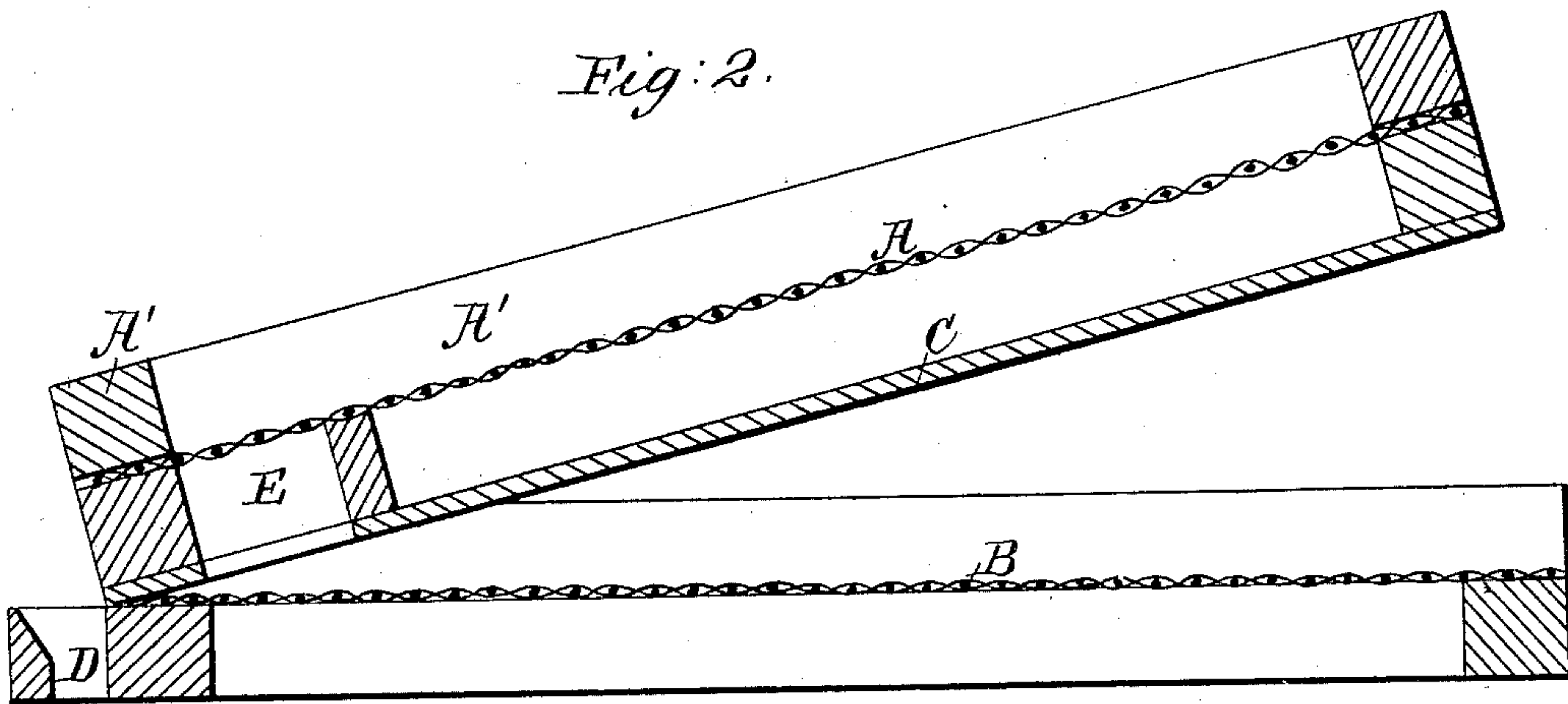


Fig: 2.



Witnesses.

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C. F. BAYLOR, OF TRENTON, NEW JERSEY.

IMPROVEMENT IN GRAIN-SCREENS.

Specification forming part of Letters Patent No. 58,050, dated September 18, 1866.

To all whom it may concern:

Be it known that I, C. F. BAYLOR, of Trenton, in the county of Mercer and State of New Jersey, have invented a new and useful Improvement in Grain-Screens; and I do hereby declare the following to be a full, clear, and exact description of the nature, construction, and operation of the same, sufficient to enable one skilled in the art to which the invention appertains to make use of it, reference being had to the accompanying drawings, which are made a part of this specification, and in which—

Figure 1 is a plan of my improved grain-cleaner, and Fig. 2 is a vertical longitudinal section of the same, the line *x x*, Fig. 1, indicating the plane of section.

Similar letters of reference indicate corresponding parts in the two figures.

The subject of my invention consists of two sieves placed one above the other, joined together at an angle, and communicating with each other through conductors which are situated at the lower end of the upper screen, and transfer the grain from the latter to the lower screen, thereby separating the grain from the screenings and trash which fall through the upper screen onto a chute or conducting-board, whereby the screenings, &c., are deposited into a receptacle, which also receives the matter which is sifted through the lower screen.

In order that others skilled in the art to which my said invention appertains may be enabled to fully understand and use the same, I will proceed to describe it in connection with the accompanying drawings.

A B represent two sieves fixed within suitable frames, which are joined together at an angle of thirty degrees, (more or less,) as represented in Fig. 2. These sieves are to be mounted on the ordinary fanning-mill at the end opposite from that at which the hopper is located, and they may receive a shaking reciprocating motion from any suitable actuating devices.

C is an intervening chute or conducting-board, which receives the foul matter as it is sifted through the upper sieve, and discharges

such matter through the oblong opening D into a receptacle beneath.

E E are conductors, which are situated at the lower end of the sieve A, inside of frame A', and serve to conduct the good grain from the upper to the lower sieve.

The operation will be readily understood.

The grain to be cleaned is received upon the sieve A at the upper end thereof, and as it flows down upon the same the screenings, cockle, and trash fall through its meshes, and are deposited into the chute or conducting-board C, whence they pass through the oblong openings D at the lower end of sieve B and into the box which is placed beneath the sieves to receive the screenings, &c. The good grain, being too large to pass through the meshes of the sieve A, flows to the lower end of the same, and passes through the conductors E E and into the lower sieve, B, together with any trash or screenings which may not have sifted through the upper sieve.

On the sieve B the grain travels in a direction contrary to that in which it moved upon the upper sieve, A, and the sieve B sifts out the remaining screenings and trash, and discharges the good clean grain into its special receptacle.

The upward-projecting sides of the frame A' prevent the grain from getting off the sieve A otherwise than by passing through the conductors E, and the screenings, trash, &c., which are discharged through the lower sieve, B, enter the same receptacle as the matter which is discharged from the chute C through the oblong opening D.

Having thus described my invention, the following is what I claim as new herein and desire to secure by Letters Patent:

The combination, with the sieves A B and chute or conducting-board C, of the conductors E E, all arranged to operate in the manner and for the purpose herein set forth.

The above specification of my invention signed by me this 24th day of July, 1866.

C. F. BAYLOR.

Witnesses:

WM. F. McNAMARA,
CHAS. D. SMITH.