

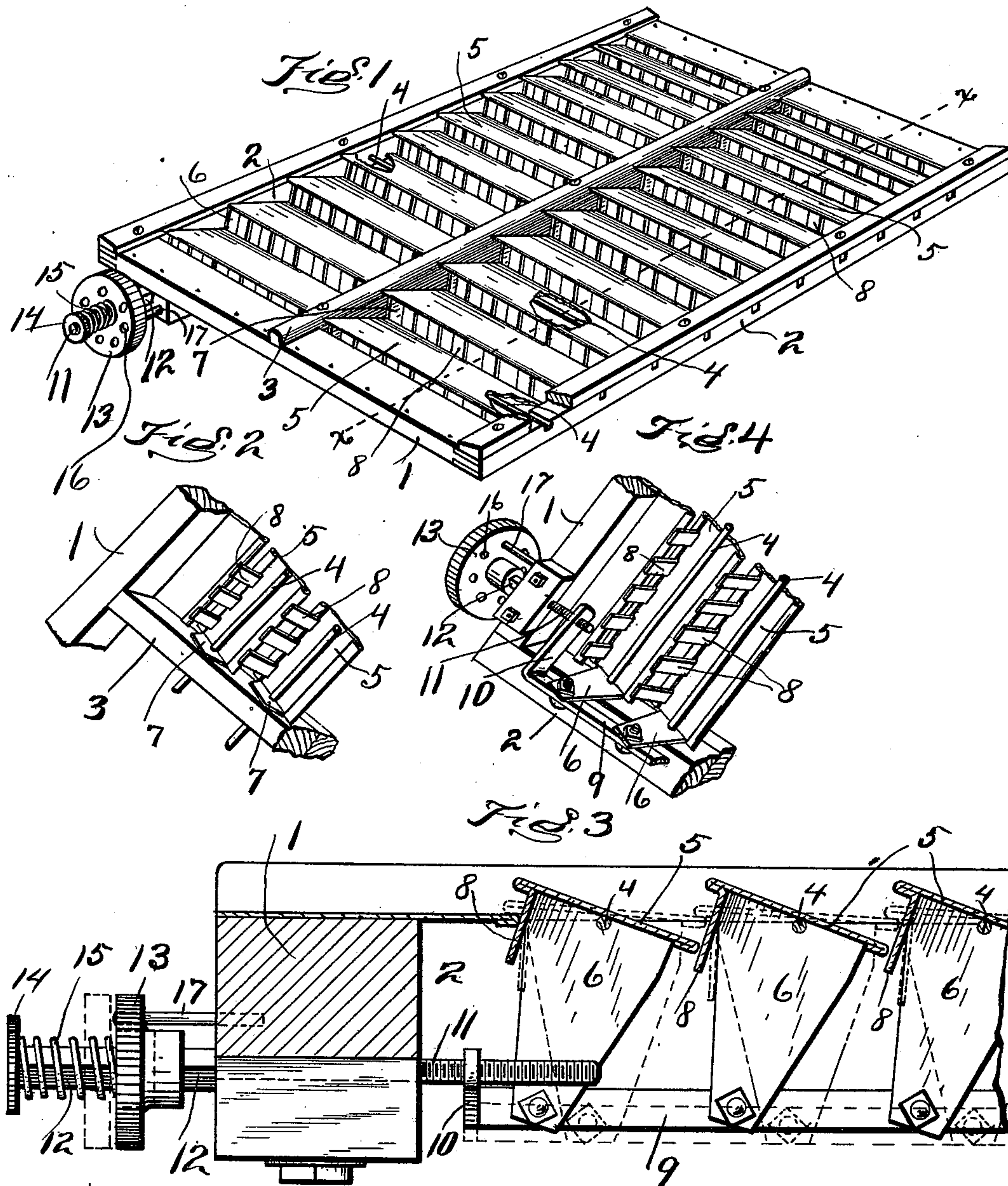
No. 675,745.

Patented June 4, 1901.

D. LIPPY.
SEPARATOR SIEVE.

(Application filed Dec. 3, 1900.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

DAVID LIPPY, OF MANSFIELD, OHIO.

SEPARATOR-SIEVE.

SPECIFICATION forming part of Letters Patent No. 675,745, dated June 4, 1901.

Application filed December 3, 1900. Serial No. 38,430. (No model.)

To all whom it may concern:

Be it known that I, DAVID LIPPY, a citizen of the United States, residing at Mansfield, in the county of Richland and State of Ohio, have
5 invented certain new and useful Improvements in Separator-Sieves; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being
10 had to the annexed drawings, making a part of this specification, and to the figures of reference marked thereon, in which—

Figure 1 is a perspective view showing the different parts properly connected. Fig. 2 is a view showing portions of two of the oscillating blades and their bars, also showing a
15 portion of the center piece or rail and a portion of one of the end members of the frame. Fig. 3 is an enlarged longitudinal section showing a portion of the separator-sieve and the device for oscillating the blades. Fig. 4
20 is a view showing a portion of two of the oscillating blades and illustrating the mechanism for oscillating the blades.

The present invention has relation to separator-sieves; and it consists in the different
25 parts and combination of parts hereinafter described, and particularly pointed out in the claims.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.
30

In the accompanying drawings, 1 represents the end members or pieces of the frame proper, and 2 represents the side members or
35 pieces, said members or pieces 1 and 2 being properly connected together to form a rectangular frame.

The frame proper is provided with the center piece or rail 3, which center rail or piece
40 is properly connected to the end members 1 in any convenient and well-known manner. The rods or bars 4 are journaled to the side members 2 and to the center rail 3, which bars extend transversely across the frame proper.

To the rods or bars 4 are connected the oscillating blades or slats 5 by means of the
45 downturned flanges or extensions 6 and 7, said downturned flanges or extensions being located at the ends of the blades and are
50 formed integral with the blades 5 by bending

said extensions 6 and 7 at substantially right angles to said blade and the rods or bars 4 passed through said downward-extending flange.

For the purpose of preventing the chaff 55 from passing through the sieve with the grain the blades 5 are each provided with the serrated downturned flanges 8, and for the purpose of having the teeth of said serrated flanges 8 set forward or in front of the rear
60 edges of the blades 5 a portion of said flanges 8 are folded under the blades 5 and upon said blades, so as to bring them in contact with the bottom or under sides of the blades 5, and the teeth of said serrated flanges 8 bent down-
65 ward, as illustrated in the drawings, by which arrangement the front or forward edges of the oscillating blades or slats present a continuous line throughout their entire lengths, thereby offering no resistance to the passage
70 of the grain and at the same time bringing a portion of the oscillating blades or slats directly over and forward of the downturned teeth, thereby so constituting the sliding
75 blades or slats that the downturned teeth are located at a given point in the rear of the sliding blades or slats, and by folding a portion of the blade or slat under and upon itself and extending the teeth downward said blades
80 or slats will be prevented from springing and the teeth held in a fixed and rigid condition.

It will be understood that by oscillating the blades or slats 5 the sieve proper can be adjusted for various kinds of grains and also for the various conditions of the straw. By
85 my peculiar arrangement or formation of the blades or slats I am enabled to lap the forward edges of the oscillating blades or slats over a portion of the rear edges of the next adjacent oscillating blades or slats, by which
90 arrangement I am enabled to bring the sieve into close adjustment and into condition for separating all kinds and sizes of grain and seeds.

For the purpose of oscillating all of the
95 blades or slats in unison the rod or bar 9 is provided, which rod or bar is pivotally connected to the downturned flanges or ends 6, said rod or bar 9 being formed of such a length
100 that all of the downturned flanges 6 can be

properly connected, so that all of the blades or slats in each division of the sieve will be properly connected.

It will be understood that all of the down-
5 turned flanges or ends 6 and 7 should be securely connected to the rods or bars 4 by means of solder or otherwise, so that there may be no lost motion and at the same time oscillating each and every blade or slat a
10 given distance when adjusting the sieve.

For the purpose of adjusting the sieve proper the bar 9 is provided with the right-angled portion 10, which right-angled portion is provided with a screw-threaded aperture,
15 through which screw-threaded aperture is passed the screw-threaded portion of the rod 11, which rod 11 is properly journaled to the forward end member 1 and extended beyond said forward end member, said extended por-
20 tion being formed angular in cross-section or, in other words, is provided with the angled portion 12, upon which angled portion is located the sliding knob or wheel 13, said sliding knob or wheel being for the purpose of
25 rotating the rod 11.

To the forward end of the rod 11 is connected the head 14, and between the head 14 and the knob or wheel 13 is located the spring 15, said spring being for the purpose of hold-
30 ing the knob or wheel 13 against rotation, as hereinafter described.

The knob or wheel 13 is provided with a series of apertures 16, which are for the purpose of receiving the pin 17, said pin being
35 fixed to the end member 1 of the frame or its equivalent.

When it is desired to change the adjustment of the sieve proper, the knob or wheel 13 is pulled toward the head 14 a distance suf-
40 ficient to disengage the pin 17, after which the knob is free to be rotated, and by providing the angle portion 12 of the rod 11 and locating the knob or wheel 13 on said angle portion of the rod 11 said rod will be rotated
45 with the knob or wheel. After the oscillating blades or slats have been properly ad-

justed the pin 17 is engaged with one of the apertures 16, thereby holding said knob or wheel and the rod 11 against rotation.

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

1. The combination of a frame, a series of rods or bars journaled in said frame, oscillating blades or slats fixed to the rods or bars, said blades or slats provided with a serrated flange folded under and upon the body of said blades or slats and the serrated portion of said flange extended downward vertically at a point in the rear of the forward edges of said blades or slats, and the oscillating blades lapped one over the other between the down-
60 turned serrated portion and the rear edges thereof, and means for oscillating the blades or slats, substantially as and for the purpose specified.

2. In an adjustable sieve, the combination of a frame, a series of rods or bars journaled thereto, oscillating blades or slats fixed to the rods or bars, said oscillating blades or slats provided with downturned flanges or extensions, a rod journaled to each of the downturned flanges of the blades or slats, said rod provided with an angled portion having a screw-threaded aperture, a rod provided with a screw-threaded portion and an angular portion, a knob or wheel slidably mounted upon the angular portion of the rod and provided with a series of apertures, a fixed pin adapted to engage one of the apertures in the knob or wheel, and a spring to normally hold the sliding knob or wheel in engagement with the fixed pin, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

DAVID LIPPY.

Witnesses:

J. H. PETERS,
GEO. W. STATLER.