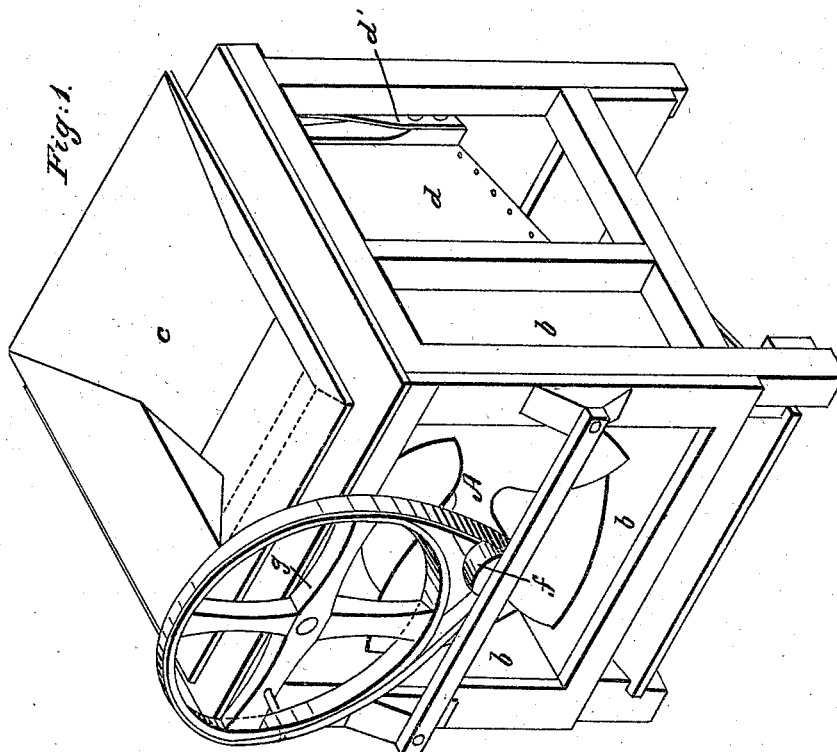
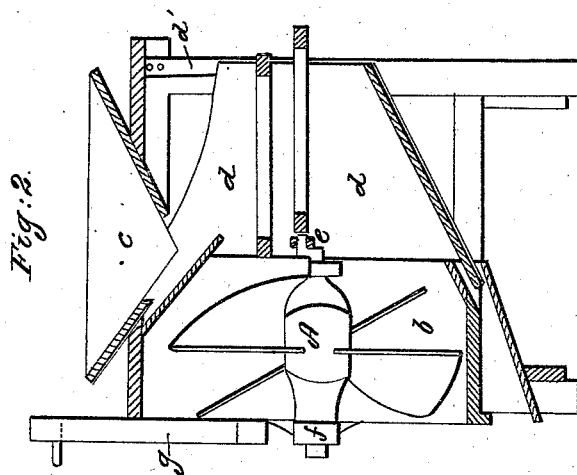


G. W. D. & J. CULP.

Grain Winnower.

No. 3,209.

Patented Aug. 4, 1843.



UNITED STATES PATENT OFFICE.

GEO. W. D. CULP AND JOS. CULP, OF ALLENSVILLE, INDIANA.

WINNOWER-MACHINE.

Specification of Letters Patent No. 3,209, dated August 4, 1843.

To all whom it may concern:

Be it known that we, GEORGE W. D. CULP and JOSEPH CULP, of Allensville, in the county of Switzerland and State of Indiana, have invented a new and useful Machine for Winnowing Grain; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification, in which—

Figure 1, is a perspective view; Fig. 2, a vertical section.

The nature of our invention consists in combining the shaking shoe with the wind wheel in such a way that all parts of the shoe shall have nearly the same motion, and the grain be acted on in the most effectual manner.

The frame of our machine is nearly square and composed of four ports with proper cross ties to connect them; between the ports on one side of this machine there is a fan A, the wings of which are radial and oblique to its axis; this fan is boxed in with a square casing (b). The top of the frame is covered in with boards through which there is an aperture large enough for a hopper (c). Under this hopper a shaking shoe (d) is placed which is suspended by four straight metal springs (d') by which it is attached to the frame above; one end of the springs being fastened to

the frame, and the other to the shoe near its bottom; the sides of the shoe are vertical and nearly fill the frame from side to side leaving only sufficient room for play; the bottom board slants up from the fan toward the other end at an angle of about 45°; above this the screens are placed nearly horizontally and just under the mouth of the hopper is a slanting conductor for conveying the grain onto the sieves; at the end of the shoe next the fan there is a pitman (e) hitched to one side that extends into the center and connects with a crank on the inner end of the fan shaft by which means the shoe is shaken; the other end of the fan shaft has a pulley (f) on it by which it is connected with the driving wheel (g) a band passing over both. The fan shaft is sustained on cross timbers the driving wheel on a stud projecting from the frame.

What we claim as our invention and desire to secure by Letters Patent is—

The combination of the shoe (d) constructed and suspended in the manner described with the arrangement of the crank and pitman rod all as described.

G. W. D. CULP.
JOSEPH CULP.

Witnesses:

AMOS EDWARDS,
CORNELIUS D. PLATT.