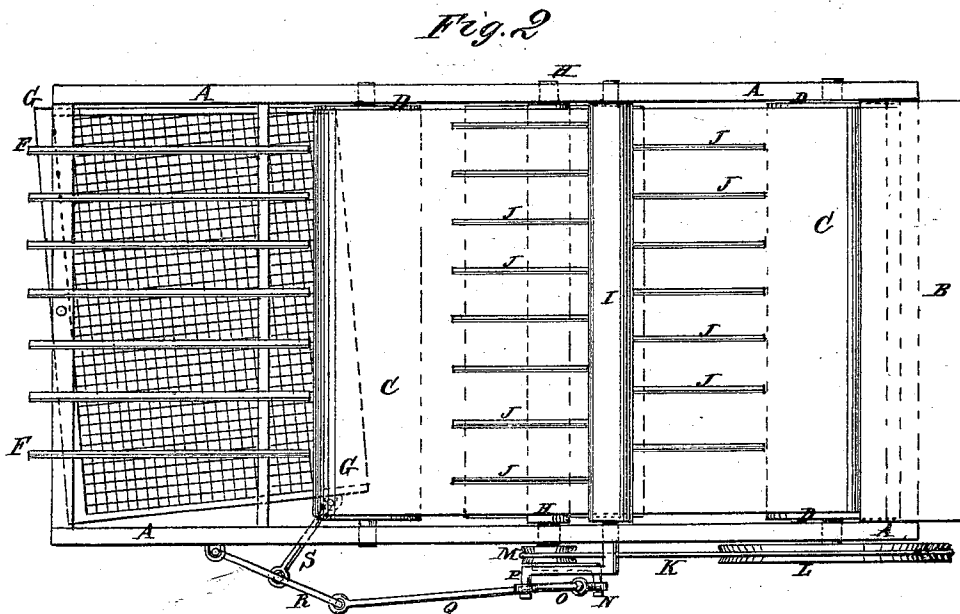
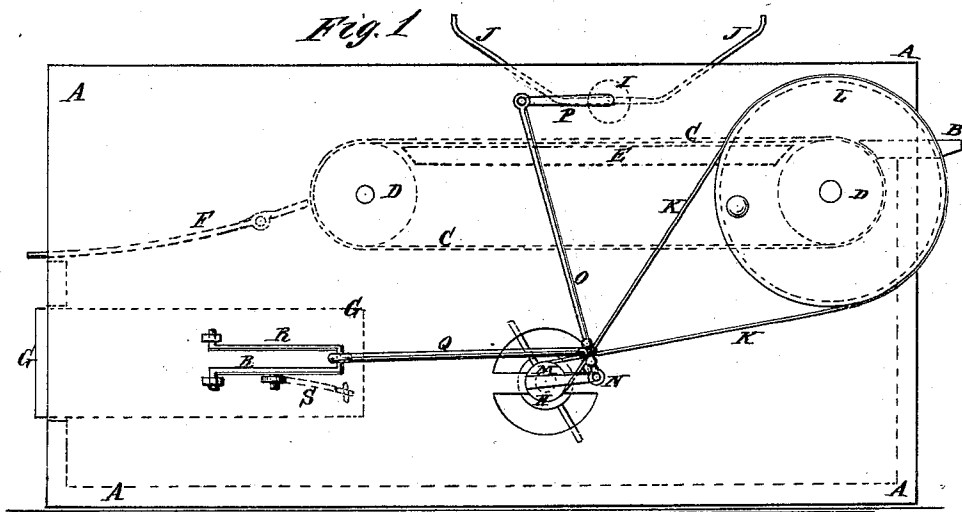


W. VERILL.
Thrashing-Machines.

No. 141,526.

Patented August 5, 1873.



Witnesses:

A. W. Almqvist
Pedgumero

Indenter:

W Verill
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UNITED STATES PATENT OFFICE.

WILLARD VERILL, OF ELWOOD, NEW JERSEY.

IMPROVEMENT IN THRASHING-MACHINES.

Specification forming part of Letters Patent No. **141,526**, dated August 5, 1873; application filed April 12, 1873.

To all whom it may concern:

Be it known that I, WILLARD VERILL, of Elwood, in the county of Atlantic and State of New Jersey, have invented a new and useful Improvement in Combined Grain Thrasher and Cleaner, of which the following is a specification:

Figure 1 is a side view of my improved machine. Fig. 2 is a top view of the same, the upper part of the case being removed.

Similar letters of reference indicate corresponding parts.

The invention consists in the improvement of thrashers and cleaners, as hereinafter described and pointed out in the claim.

A represents the box, case, or frame of the machine. B is the apron, from which the grain is fed to the endless apron C, by which it is carried beneath the beaters. The apron C passes around two rollers, D, to one of which the power is applied. E is a platform, placed between the rollers D beneath the upper part of the apron C, to support the grain while being operated upon by the beaters. From the apron C the straw and grain fall upon the rack or slotted platform F, from which the straw is taken and bound, and through which the grain falls upon the screens of the shoe or shaker G, where it is cleaned by the blast from the fan-blower H. I is the beater-shaft, the journals of which work in bearings in the frame-work A. To the shaft I are attached the beaters J, which pass through or are attached to the said shaft, and which are bent at a little distance from the shaft I, so that as the said shaft I rocks the said beaters may strike squarely upon the endless apron C and the platform E beneath said apron. The extreme ends of the beaters J are bent upward, as shown in Fig. 1, to prevent them from catch-

ing upon the endless apron C. The machine may be drawn by any convenient power applied to the roller D by a belt and pulleys, or other suitable gearing. The fan-blower H is driven from the roller D by a belt, K, which passes around a large pulley, L, attached to the roller D, and around a small pulley, M, attached to the fan-shaft H. To the fan-shaft is also attached a short crank, N, to which is pivoted the lower end of the connecting-rod O, the upper end of which is pivoted to a longer crank, P, attached to the end of the beater-shaft I, so that the revolution of the fan-shaft H will only rock the beater-shaft I. To the crank N, or to the lower part of the connecting-rod O, is pivoted the end of a connecting-rod, Q, the other end of which is pivoted to the outer end of the bar R, the inner end of which is pivoted to the frame A. I prefer to make the bar R in U shape, with its ends pivoted to the frame A, and having the end of the rod Q pivoted to its bow. This construction will cause the pivoted bars Q R to work in a horizontal plane without guides. To the bar R is pivoted the end of the rod S, the other end of which is pivoted to the side of the screen, shoe, or shaker G.

By this construction all the operating parts of the machine are driven from the roller D.

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

The vibratory beaters J J, pivoted intermediately across the endless carrying-belt C, as and for the purpose described.

WILLARD VERILL.

Witnesses:

THOMAS IRVING,
JOHN MCNEIL.