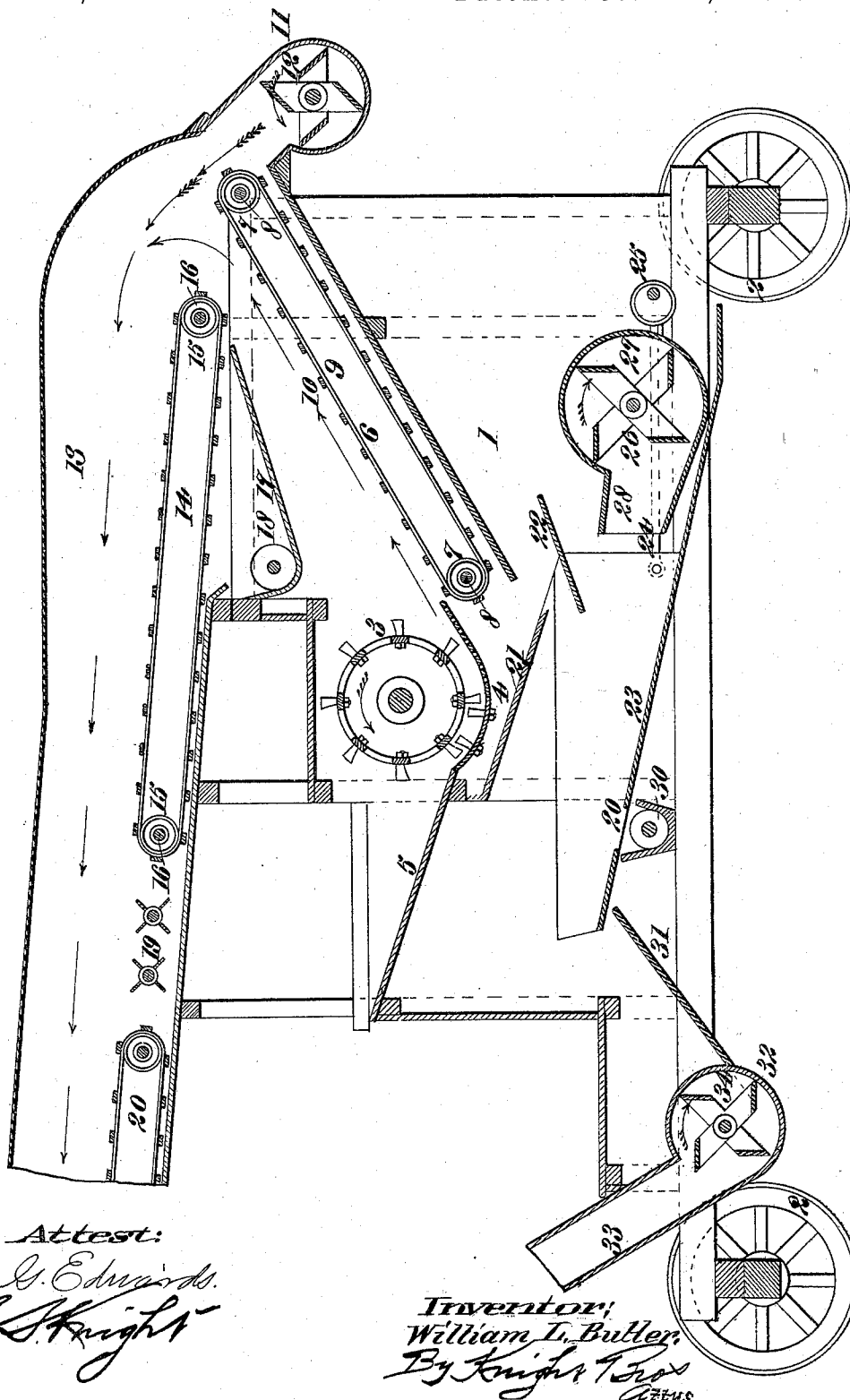


(No Model.)

W. L. BUTLER.
THRASHING MACHINE.

No. 533,347.

Patented Jan. 29, 1895.



UNITED STATES PATENT OFFICE.

WILLIAM L. BUTLER, OF LITCHFIELD, ASSIGNOR TO THE CAHOKIA MANUFACTURING COMPANY, OF EDWARDSVILLE, ILLINOIS.

THRASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 533,347, dated January 29, 1895.

Application filed August 30, 1894. Serial No. 521,722. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM L. BUTLER, of Litchfield, in the county of Montgomery and State of Illinois, have invented a certain new and useful Improvement in Thrashing-Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming part of this specification.

My invention relates to certain improvements in thrashing machines, and has for its object the construction of a thrashing machine, so arranged as to diminish the length of the machine, and at the same time invert the straw in its passage through the machine and over the carrier, so that any grain remaining in the straw, after leaving the cylinder, is shaken from the straw as it passes on through the machine.

My invention consists in features of novelty hereinafter fully described and pointed out in the claims.

The drawing represents a vertical, longitudinal section taken through the machine.

Referring to the drawing, 1 represents the body of the machine, provided with the usual ground wheels 2.

3 is the usual cylinder, 4 the concave and 5 the feed chute.

6 is a carrier mounted upon the rollers 7 on shafts 8, which carrier is constructed of belts 9 and slats 10, to allow spaces between the slats for the grain to fall through as the straw passes over the carrier.

11 represents a housing in which a fan 12 is journaled, the said housing and fan being located at a point below the upper end of the carrier 6, so that as the straw reaches the upper end of the carrier it is blown forward toward the front of the machine, as indicated by the arrows, up into a housing 13, where it falls upon a carrier 14. The carrier 14 is mounted on rollers 15 on shafts 16 and is of the same construction as the carrier 6. As the straw passes over the carrier 14, any grain that may yet remain in the straw, is shaken out and falls through the carrier down into the inclined box 17, from where it is carried by a conveyer 18, and falls into the machine.

19 represents rollers provided with wings

on which the straw is carried from the carrier 14 onto a carrier 20, which carries it out of the machine.

The grain on being separated from the straw falls on an inclined board 21, then on an inclined board 22, and from board 22 falls upon a shoe 23 that is constantly vibrated by a link 24 connected to it by one end, and connected at its other end to an eccentric 25.

26 is a fan located in a housing 27. The housing 27 is provided with a spout 28 pointed toward the shoe 23, so that as the grain falls upon the shoe, the blast of air from the fan is blown across the shoe, and the good grain falls through an opening 29 in the shoe and is carried out of the machine by a conveyer 30, while the tailings are carried over the end of the shoe onto an inclined board 31, into a housing 32, from where they are blown out through a spout 33 by a fan 34.

The housings 12 and 13 and the fan, and the carriers therein are located outside of the main body of the machine, and as shown in the drawing, the housing 13 is located entirely above the machine, and extends from the rear end of the machine forward over the front end, and from there to the point where the straw is discharged to be stacked.

I claim as my invention—

1. In a thrashing machine, the combination with a cylinder, of a carrier arranged to conduct the straw from the cylinder toward the rear of the machine, a second carrier arranged over the first carrier, and adapted to receive the straw therefrom and carry the straw toward the front of the machine, and a fan arranged to blow the straw from the first carrier onto the second carrier: substantially as set forth.

2. In a thrashing machine, the combination with a cylinder, of a carrier arranged to receive the straw from said cylinder, housings 11 and 13 outside of the machine, a carrier in said housing 13, and a fan in said housing 11 adapted to blow the straw onto the carrier in said housing as it leaves the first mentioned carrier: substantially as set forth.

WILLIAM L. BUTLER.

In presence of—

C. G. EDWARDS,
E. S. KNIGHT.