

Parley Upton & Jacob B. Lobdell

Threshing Machine.

No. 121,220.

Patented Nov. 21, 1871.

Fig. 1.

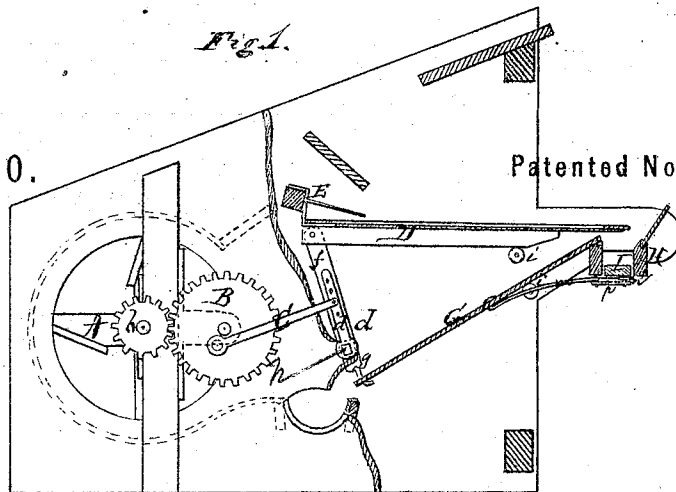


Fig. 2.

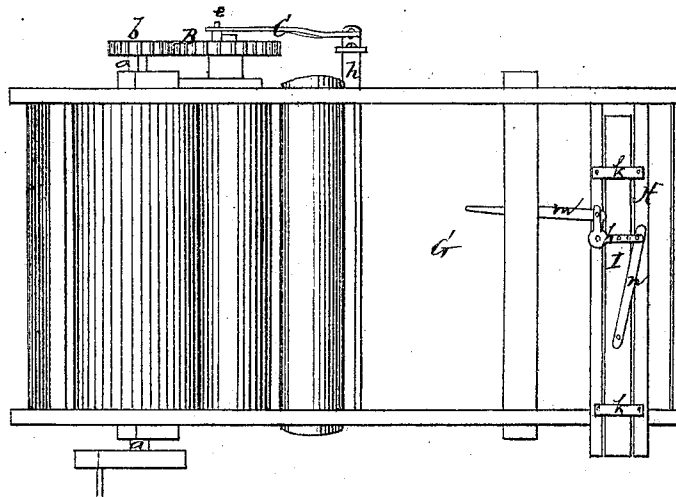
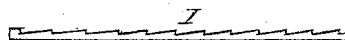


Fig. 3.



Witnesses.

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UNITED STATES PATENT OFFICE.

PARLEY UPTON AND JACOB B. LOBDELL, OF BATTLE CREEK, MICHIGAN.

IMPROVEMENT IN THRASHING-MACHINES.

Specification forming part of Letters Patent No. 121,220, dated November 21, 1871.

To all whom it may concern:

Be it known that we, PARLEY UPTON and JACOB B. LOBDELL, of Battle Creek, in the county of Calhoun and in the State of Michigan, have invented certain new and useful Improvements in Thrashing-Machines; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of our invention consists in the construction and mode of operating the sieves, bottom board to the shoe, and the board that conveys the tailings to the elevator.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side elevation, part in section; and Fig. 2 is a bottom view. Fig. 3 is a side view of the bottom board of the shoe.

A represents the fan, placed on the shaft *a*, upon the end of which is a pinion, *b*, that gears with a cog-wheel, B. On the outside of this wheel is a wrist-pin, *e*, upon which is attached the pitman C. The other end of this pitman is attached or pivoted to a lever, *d*, upon the end of a shaft, *h*, which passes through the machine. The portion of the shaft *h* which is inside of the machine is square, and two arms, *f f*, project upward from the same. The upper ends of the arms *f f* are pivoted to the rear end of the sieve D, the front end of which rests upon rollers *i i*, as shown in Fig. 1. To the rear edge, and above the sieve D, is attached the rake E, which moves back and forth with the sieves. Two other smaller arms, *g*, extend downward from the shaft *h*, and are attached to the rear lower end of the board G in the bottom of the shoe. The upper front end of this board also rests upon small fric-

tion-rollers *i i*. The shaft *h*, by the gearing above described, obtains a rocking motion, which gives to the sieves D and board G the required reciprocating motion. The amount of this motion may be regulated by changing the pitman C further out or in on the lever *d*, said lever being for this purpose provided with a series of holes, as shown in Fig. 1. Under the front end of the frame in which the sieves move is formed or attached the spout H, the bottom board I of which conveys the tailings to the elevator, and is corrugated or toothed, as shown in Fig. 3, and moves from end to end in the spout upon guides *k k*. This motion of the bottom board I is contributed from the board G by means of a rod, *m*, connecting said board G with a bent lever, *p*, pivoted on the lower edge of the shoe, and another rod, *n*, connecting the other end of said lever with the bottom board I. The amount of such motion may be regulated by changing the point of connection between the lever *p* and rod *n*.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The arrangement of the rock-shaft *h*, arms *f f* and *g g*, pinion *b*, wheel B, pitman C, and lever *d*, with the sieve D and board G, all substantially as shown and described.

2. The combination of the board G, connecting-rods *m n*, bent lever *p*, and bottom board I, substantially as and for the purposes herein set forth.

In testimony that we claim the foregoing we have hereunto set our hands this 11th day of July, 1870.

PARLEY UPTON.
JACOB B. LOBDELL.

Witnesses:

C. L. EVERT,
A. N. MARR.

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