

(No Model.)

2 Sheets—Sheet 1.

N. SHAFFER.

SET AND LEVELER FOR THRASHING MACHINES.

No. 422,982.

Patented Mar. 11, 1890.

Fig. 1.

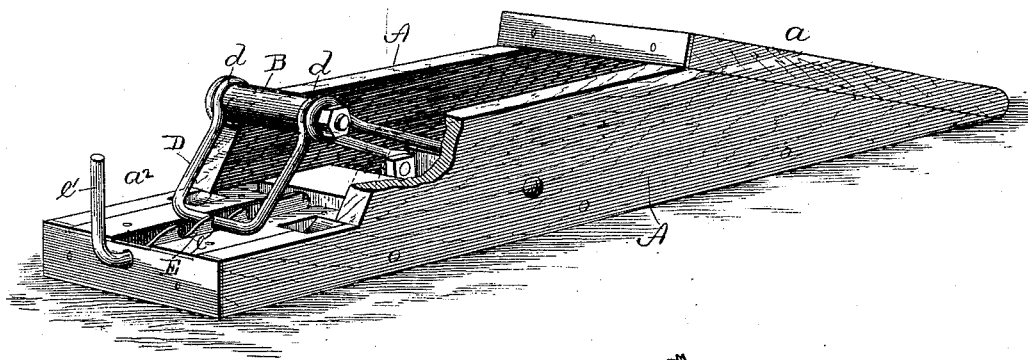
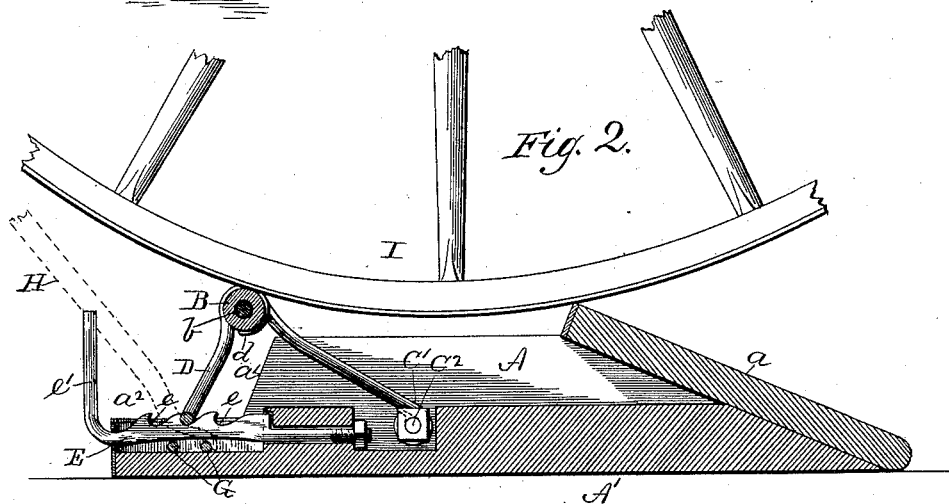


Fig. 2.



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Fig. 3.

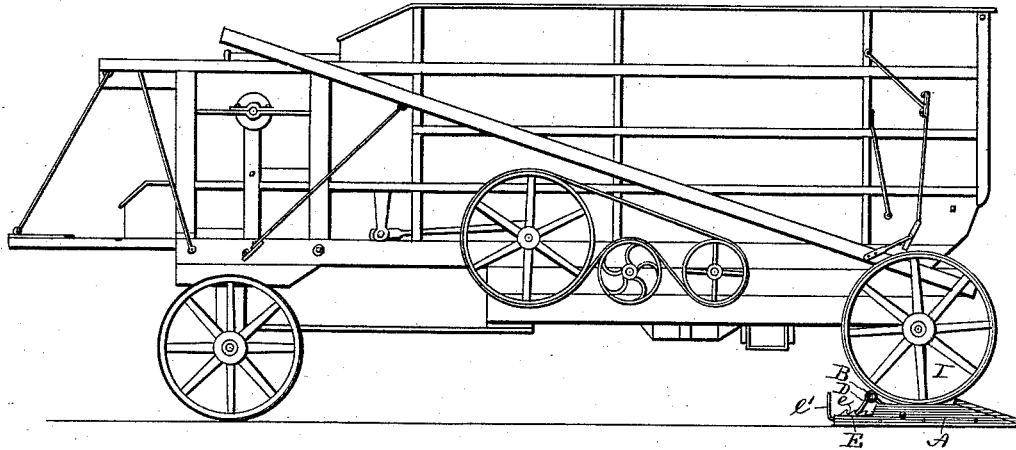


Fig. 4.

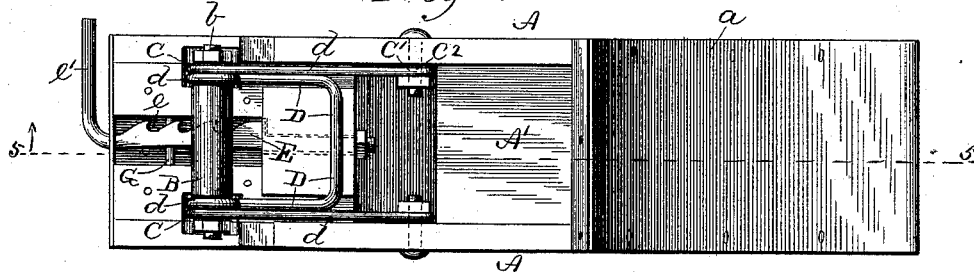
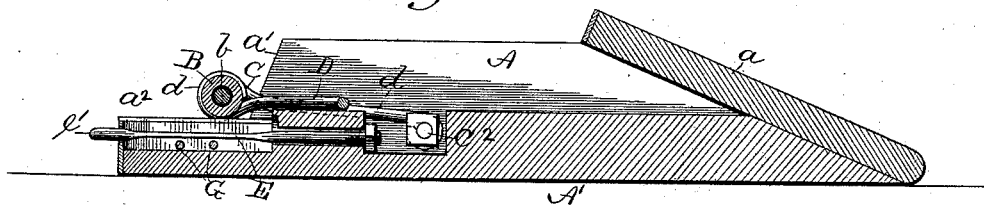


Fig. 5.



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UNITED STATES PATENT OFFICE.

NELSON SHAFFER, OF HULL, IOWA.

SET AND LEVELER FOR THRASHING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 422,982, dated March 11, 1890.

Application filed June 5, 1889. Renewed February 11, 1890. Serial No. 339,999. (No model.)

To all whom it may concern:

Be it known that I, NELSON SHAFFER, a citizen of the United States, residing at Hull, in the county of Sioux and State of Iowa, have invented certain new and useful Improvements in Sets and Levelers for Thrashing-Machines, of which the following is a specification.

In that class of thrashing-machines which are fixed or retained while in operation upon the same trucks on which the machine is transported from place to place it has heretofore been necessary to stake the trucks to the ground in order to hold them firmly in place and to excavate a place in the ground to lower the front wheels and level the machine; and the object of this invention is to provide a set by the use of which the machine may be easily and quickly fixed in place and leveled.

The invention consists in constructions and combinations hereinafter described and claimed.

In the accompanying drawings, which illustrate my invention, Figure 1 is a perspective of the set and leveler with the parts adjusted as in use; Fig. 2, a sectional elevation lengthwise of the device, as shown at Fig. 1, and part of a wheel; Fig. 3, a side elevation of the set and leveler and of a thrashing-machine located thereon; Fig. 4, a top plan of the device in its folded form, as when not in use; Fig. 5, a sectional elevation in line 5 5 in Fig. 4.

Referring to the drawings by letter, the same letter indicating the same part in the different figures, letters A represent the sides of my set and leveler with a bottom piece A' fixed thereto. The side pieces A at one end are beveled off to form a seat for an incline or top a , and their other ends cut away to form a shoulder a' and a lower part a^2 .

B is a roller loosely seated on a shaft b , which is loosely mounted in eyes c on the ends of rods d , the other ends of which have eyes c' , which are loosely mounted or hinged on stud-bolts c^2 , that project inwardly from the side pieces A.

D is a U-shaped support formed of a bent rod, the ends of which are formed into eyes d , which are loosely journaled on the shaft b .

E is a rack-bar having notches e in one of

its sides and its outer end bent at a right angle to its main portion to form a handle e' . This rack-bar is journaled in suitable bearings in the bottom piece A', to permit of turning it into position with the notches e at its upward side, or at either its left-hand side or right-hand side.

Beneath the rack-bar E are fixed rods G, 60 which serve to support the rack-bar when the thrasher is on the set and serve as fulcrum-bars for a lever H. (Shown by dotted lines at Fig. 2.)

In use a set and leveler, adjusted as shown at Figs. 1 and 2, is placed where each hind wheel I of the thrasher-truck is intended to stand while the thrasher is being operated. The trucks, with the thrasher, are then drawn forward, the hind wheels I passing up the inclines a to their positions, resting a hind wheel on the incline a and roller B of each truck, where they (the wheels) will be held in an elevated position, and also in a fixed position, thereby holding the thrasher in a fixed position. The hind wheels and that end of the thrasher may be adjusted in lower positions by adjusting the rod D in the notches e toward the handle e' of the rack-bar E, and may be adjusted in more elevated positions by adjusting the rod D in an opposite direction on said rack-bar in the evident manner. A lever—such as H—may be used with its end resting on a fulcrum-bar G to raise the bar D out of a notch e and lower it into another. The low part a^2 of the sides A will permit inserting the lever H at oblique angles to the set when the set is beneath a wheel and it becomes necessary to so insert said lever. The roller B may be lowered by moving the bar D into the position shown at Figs. 4 and 5, and the rack-bar E turned on its side, as shown at same figures, to permit drawing the trucks and thrasher off the sets and to fold these parts of the set for convenience in handling it when not in use.

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

1. In a set and leveler for portable thrashing-machines, having an inclined way for the truck-wheel, and in combination, a wheel-supporting roller carried on hinged swinging bars and adjustably supported by the U-

shaped bar D and notched rack-bar E, substantially as and for the purpose specified.

2. In a set and leveler for portable thrashing-machines, having an inclined way *a*, and
5 in combination, a roller B, carried on hinged swinging arms *d*, a swinging adjusting-support D, and a rack-bar, substantially as described, and for the purpose specified.

3. In a set and leveler for portable thrashing-machines, having an inclined way *a*, and
10 in combination, a roller B, carried in swinging arms *d*, a swinging adjusting-support D, and journaled rack-bar E, having notches *e* and handle *e'*, substantially as and for the
15 purpose specified.

4. In a set and leveler for portable thrashing-machines, and in combination, a roller B,

carried in swinging arms *d*, a swinging adjusting-support D, and journaled rack-bar E, having notches *e* and handle *e'*, substantially 20 as and for the purpose specified.

5. In a set and leveler for portable thrashing-machines, and in combination, a roller B, carried in swinging arms *d*, a swinging adjusting-support D, journaled rack-bar E, having 25 notches *e*, lever H, and fulcrum-bars G, substantially as and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

NELSON SHAFFER.

Witnesses:

E. W. HAZARD,
J. S. WILSON.