No. 850,704. PATENTED APR. 16, 1907.

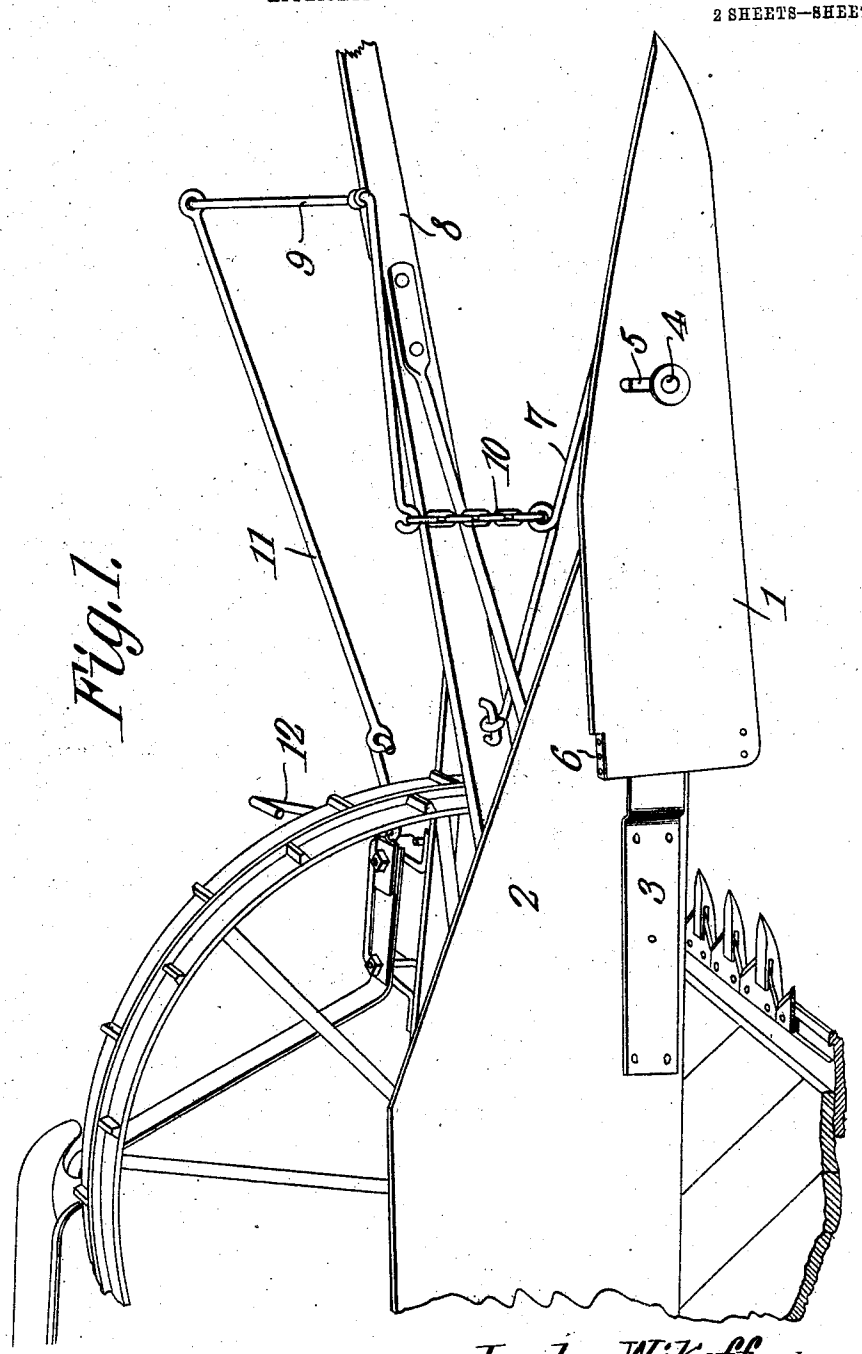
L. WIKOFF.

GRAIN LIFTER.

APPLICATION FILED NOV. 22, 1906.

2 SHEETS—SHEET 1.

Fig. 1.



WITNESSES:

E. H. Blanchard

C. Broadway

Lester Wikoff, INVENTOR.

By C. A. Snow & Co.

ATTORNEYS

THE NORRIS PETERS CO., WASHINGTON, D. C.

No. 850,704. PATENTED APR. 16, 1907.

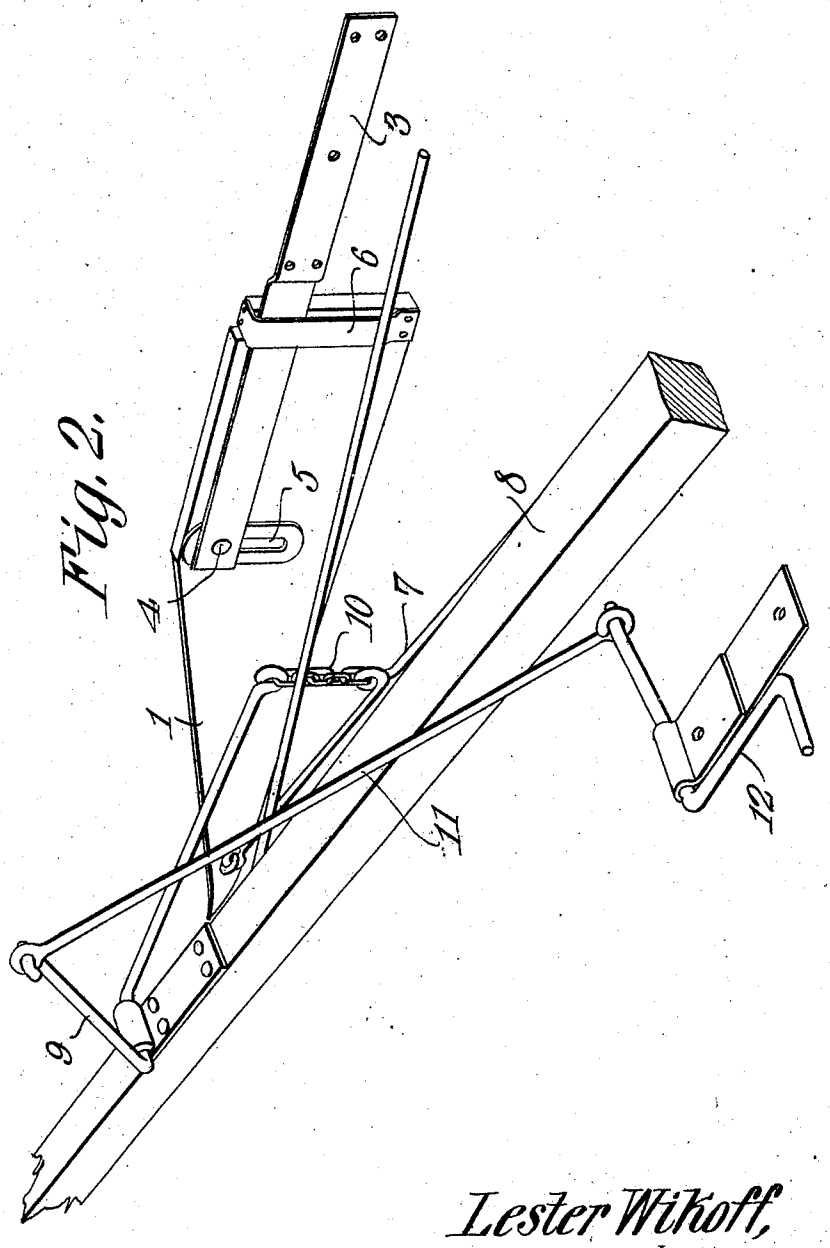
L. WIKOFF.

GRAIN LIFTER.

APPLICATION FILED NOV. 22, 1906.

2 SHEETS—SHEET 2.

Fig. 2.



WITNESSES:

E. J. Stewart

C. Bradway

Lester Wikoff,
INVENTOR.

By C. A. Snow & Co.
ATTORNEYS

THE NORRIS PETERS CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

LESTER WIKOFF, OF CHERRY VALLEY, NEW YORK.

GRAIN-LIFTER.

No. 850,704. Specification of Letters Patent. Patented April 16, 1907.

Application filed November 22, 1906. Serial No. 344,607.

To all whom it may concern:

Be it known that I, LESTER WIKOFF, a citizen of the United States, residing at Cherry Valley, in the county of Otsego and State of New York, have invented a new and useful Grain-Lifter, of which the following is a specification.

This invention has relation to grain-lifters; and it consists in the novel construction and arrangement of its parts, as hereinafter shown and described.

The object of the invention is to provide a grain-lifting attachment for a grain-harvester which is effective in its operation and which may be easily and readily applied to and detached from machines of the character indicated.

The grain-lifter consists, primarily, of a guard which is pivotally attached to the end board of the grain-table of the harvester, and a lever mechanism is connected with said guard for the purpose of swinging the same in elevated position at its forward end or for swinging the said forward end down in close proximity to or in contact with the ground. In either position the said guard is capable of having slight oscillatory movement upon its pivot.

In the accompanying drawings, Figure 1 is a perspective view of the grain-lifter from one side thereof, and Fig. 2 is a perspective view of the grain-lifter from the opposite side thereof.

The guard 1 is attached to the side of the end board 2 of the grain-table of the harvester. The means of attachment comprises a strip or plate 3, secured at its rear end to the board 2 and provided at its forward end with a laterally-extending pin 4. The guard 1 is provided with a vertically-disposed slot 5, which receives the pin 4, and at its rear end is provided with a guide 6, which receives the strip 3. By such arrangement it is obvious that the guard 1 may move vertically with relation to the strip 3 and the end board 2. The rod 7 is attached at its outer end to the side of the guard 1 in the vicinity of the forward pointed end thereof, and the rear end of the said rod 7 is pivoted to the side of the tongue 8 of the implement. The bell-crank lever 9 is fulcrumed upon the tongue 8, and the chain or other flexible element 10 is attached to one end of the said bell-crank lever 9 and at its other end is attached to an intermediate point of the rod 7. The link 11 is pivoted at its forward end to the other end of the said bell-crank lever 9 and at its rear end is pivoted to the foot-treadle 12, which in turn is mounted upon the frame of the implement.

From the foregoing description it is obvious that when the foot-treadle 12 is swung toward the front the link 11 will partially rotate the bell-crank lever 9 and the chain 10 will draw the rod 7 up, which in turn will elevate the forward pointed end of the guard 1. At the same time the rear end of the said guard will remain depressed when the lower end of the slot 5 comes in contact with the pin 4; but owing to the elasticity of the rod 7 should the rear end of the guard 1 come in contact with an obstruction it will ride over the same, while the pin 4 remains in contact with the bottom of the slot 5 and serve as a pivot for the guard. The said guard 1 is swung in the position above indicated when the harvester is being moved from one field to another or at times when the grain-lifting attachment is not needed. To lower the forward pointed end of the guard 1 in the vicinity of or in contact with the surface of the ground, the foot-treadle 12 is swung to the rear, when the movement of the parts will be the reverse of that above described. When in such position, the guard 1 may move vertically in traveling over uneven ground. Such vertical movement is permitted by reason of the vertically-disposed elongated slot 5 receiving the pin 4. Inasmuch as the strip 3 is metallic, and consequently possesses more or less elasticity, the said guard 1 may vibrate slightly in lateral directions. By providing such a guard for a harvester the broken-down grain as it is approached is lifted up so that it may be cut by the sickle-knives near its base. Thus the machine will not pass over the grain in prostrate posture and simply remove the heads thereof. Such an attachment for a harvester will save much grain that otherwise cannot be recovered without using hand tools or implements, and its application to the harvesting-machine does not in any manner interfere with the operating parts of the machine.

Having described my invention, what I claim as new is—

1. A grain-table having an end board, a strip of flexible metal attached to the end board, a guard mounted upon the strip and a lever mechanism connected with said guard for raising and lowering the same.

2. A grain-table having an end board, a

strip of flexible material mounted upon the end board and having a laterally-extending pin, a guard having a vertically-disposed slot which receives said pin, a guide on said guard receiving said strip and a lever mechanism connected with the guard for raising and lowering the same.

3. A grain-table having an end board, a strip of flexible metal attached to the end board, said strip having a laterally-extending pin, a guard having a vertically-disposed slot which receives said pin; and a guide which receives said strip, a rod pivoted at one end to said guard in the vicinity of the forward end thereof and at its other end to the frame of the harvester, a bell-crank lever fulcrumed to the frame of the harvester and having its working end connected with said rod, a treadle pivoted upon the frame of the harvester and a link connecting said treadle with the power end of the bell-crank lever.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

LESTER WIKOFF.

Witnesses:
J. A. McFARRAN,
HOMER W. BROWN.