A. PALMER.

Harvester.

No. 168,578. Patented Oct. 11 1875.

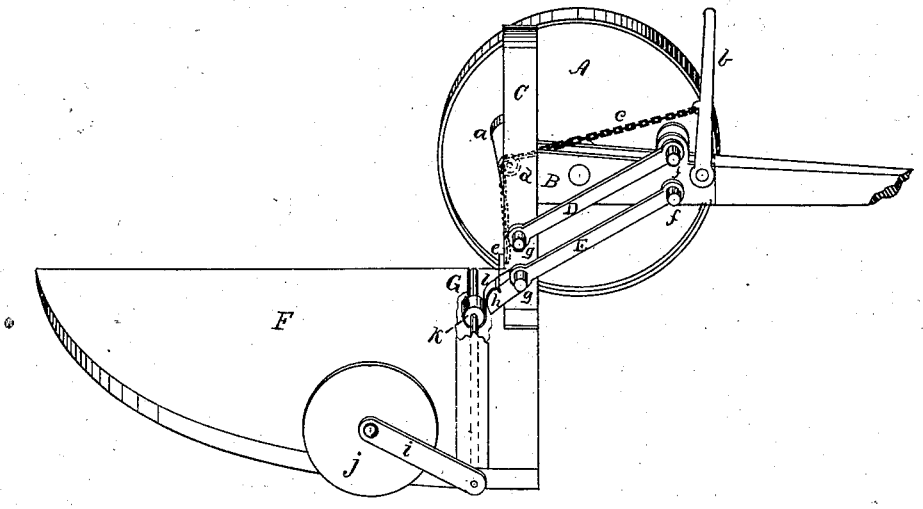

Fig 1

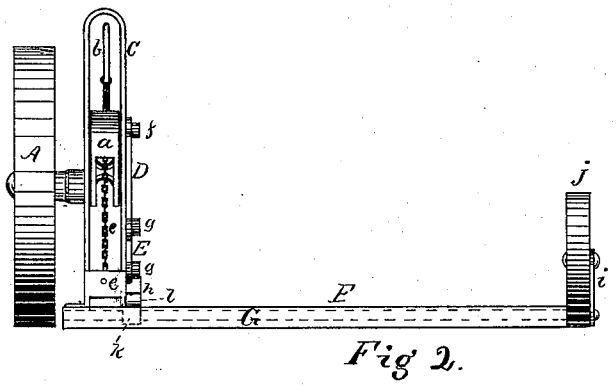

Fig 2.

Witnesses:
G. S. Allis.
H. M. Hopkins

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Atty.

UNITED STATES PATENT OFFICE.

AARON PALMER, OF ROCHESTER, NEW YORK.

IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. **168,578**, dated October 11, 1875; application filed August 8, 1874.

To all whom it may concern:

Be it known that I. AARON PALMER, of the city of Rochester, in the State of New York, have invented certain Improvements in Harvesters, of which the following is a specification:

My invention relates to mechanism for raising and lowering the entire platform of a harvester from the ground horizontally. It consists in any ordinary device, for raising the platform, combined with parallel braces, which cause the rear side of the platform to move upward simultaneously with the front, said braces being connected with a rocking shaft, which passes under the platform, having an arm on its outer end, which is supported by the ground-wheel. Sufficient motion is imparted to this shaft by one of the parallel braces to raise the outer end of the platform simultaneously with the inner end.

Figure 1 in the drawing is a perspective view. Fig. 2 is a rear elevation.

A is the drive-wheel, which supports the casting B, into which the tongue is fitted. This casting has a head, *a*, which fits between the sides of the standard C, so that the standard may slide up and down on it. In this case the raising apparatus consists in a lever, *b*, which is hinged to the casting B and the chain *c*, which is attached to this lever, and runs over the sheave *d*, which is placed between the sides of the head *a*, and is then attached to the back of the standard C at *e*. Although this device is used in this instance for raising the inner corner of the platform, many of the ordinary known devices would answer the purpose. D E are parallel bars or braces, which are pivoted at *f f* on the casting B, and also at *g g* on the standard C, in such a manner that a line drawn through *f f* and *g g* would be parallel, and also at right angles with the platform F. The brace E extends beyond the point *g*, forming the sector *h*. G is a rocking shaft, which extends the whole length of the platform parallel with the finger-bar, and just at the rear of it. At the outer end of this shaft the arm *i* is fixed. The grain-wheel *j* revolves on a stud placed in the arm *i*. A small cylinder, *k*, is placed on the shaft G opposite the sector *h*. A strip of metal or chain, *l*, is attached to the sector *h*, passing over it and under the cylinder *k*, and is fixed to it near the upper side.

It will be seen that on pushing the lever *b* over toward the front of the machine, the standard C, and consequently the inner corner of the platform, will be raised. The parallel bars confine the standard, so that it must rise parallel with a line drawn through *f f*. The platform being rigidly fixed to the standard at right angles, it must rise horizontally from front to rear.

Sufficient motion is given to the rocking shaft G through the sector *h* to cause the arm *i* to raise the outer end of the platform at the same rate that the inner end is raised.

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

1. The combination of the braces D and E, casting B and standard C, shaft G, and arm *i*, substantially as shown and described.

2. The combination of the parallel braces D E, tongue-casting B, and platform-standard C, whereby the horizontal position of the platform on the line of the path of the machine is maintained whether raised or lowered.

AARON PALMER.

Witnesses:

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H. M. HOPKINS.