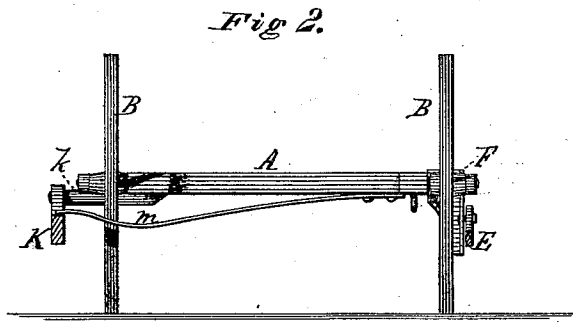
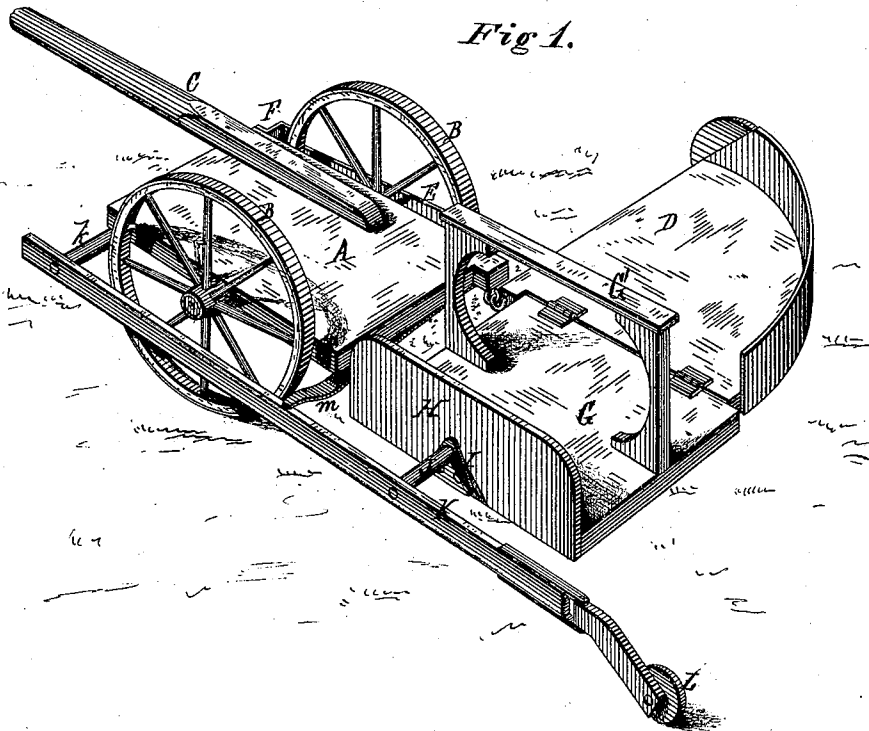


C. L. TRAVIS.

BINDER PLATFORMS FOR HARVESTERS.

No. 175,786.

Patented April 4, 1876.



WITNESSES

Harry King
Alex Mahon

INVENTOR

Charles L. Travis
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By his Attorney

UNITED STATES PATENT OFFICE.

CHARLES L. TRAVIS, OF GREAT VALLEY, NEW YORK, ASSIGNOR TO THE
GRAIN-BINDER COMPANY, OF FREMONT, OHIO.

IMPROVEMENT IN BINDER-PLATFORMS FOR HARVESTERS.

Specification forming part of Letters Patent No. **175,786**, dated April 4, 1876; application filed
July 23, 1875.

To all whom it may concern :

Be it known that I, CHARLES L. TRAVIS, of Great Valley, county of Cattaraugus, State of New York, have invented a new and useful Improvement in Binder-Platforms for Harvesters, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, making part of this specification, in which—

Figure 1 represents a perspective view of so much of a harvesting-machine as is necessary to show my invention; and Fig. 2 shows a rear elevation of the machine-truck with the platform, drag-bar, or adjusting-lever, and the balancing-bar to the binding-platform in section.

Similar letters of reference denote corresponding parts in both figures.

The invention consists in combining the binders' platform, which is hinged to the grain or cutter platform, with the main frame by means of a balancing-bar, to which the binder-platform is pivoted, and which, in turn, is pivoted at its forward end to the main frame, and is supported at its rear end by a caster-wheel in such manner as to support the outer or stubble side of said binders' platform, without interfering with its freedom to conform to the movements of the grain-platform.

It further consists in a novel manner of combining the balancing-bar with the main frame, as hereinafter described, whereby the weight of the binder-platform, which is arranged behind the main frame, is carried forward of the axle of said main frame, and tends to depress the pole or tongue of the machine upon the neck-yoke of the team, instead of lifting the same.

In the accompanying drawing, A represents the main frame, mounted upon the usual independent driving and carrying wheels B B; C, the pole or tongue of the machine, and D the cutter-platform, which, with the usual cutting apparatus applied, is hinged at one side of the machine by any of the usual or preferred coupling devices for that purpose. Ordinarily I prefer to attach to the inner end of the platform, or to the shoe at that point, a rocking-lever, E, the forward end of which is sustained at any desired adjustment by a rack,

F, attached to the inner front corner of the main frame A, and by means of which devices the angle of the platform may be regulated as desired. Behind the main frame, and at the inner or delivery side of the platform D, is the binder-platform G, with its side or edge adjacent to the platform D, hinged to and supported by the discharging side or end of said platform in such manner as to be held always in the same plane therewith. The outer or stubble side of the binder-platform G is provided with an upright board or fender, H, and to the outer face of this fender, or to the outer edge of the platform G, midway of its length, is rigidly secured a bracket, I, provided with a stud or axle, J, which, at its outer end, has a bearing in a bar, K. The bar K, at its forward end, is pivoted to the main frame, and has its rear end supported by a caster-wheel, L, running on the surface of the ground.

By this arrangement, the weight of the outer side of the binder-platform G is carried by the bar K, which, while following the surface of the ground, transfers such weight in part to the main frame, while the pivotal connection between said bar and the platform G permits the rocking of the latter to conform to the movements of the grain-platform D.

For carrying the weight of the binder-platform, thus transferred to the main frame forward of the axle of the main frame, the bar K is extended forward of said axle, and has its pivotal connection at K, with the front outer corner of the main frame in advance of the axle. To the rear end of the frame a spring, M, is secured, its outer end resting on the bar K, said spring, by its tension, tending to lift the rear end of the main frame with the weight of the couplings of the cutting apparatus and grain-platform thereto attached, and to throw such weight on the bar K.

By this arrangement not only is the weight of the reaper attachments balanced upon the main frame, but the drag upon the platform side is greatly relieved, and in part transferred to the opposite side to the balancing-bar K, thus, in a measure, overcoming side draft.

The pivotal connection of the bar K may be placed farther back upon the main frame by

using a spring, *m*, of increased stiffness or tension, or, by the use of a torsion-spring at the pivotal connection, said pivot may, if preferred, be placed in rear of the axle, instead of in front, with the same result, the principal object being to so connect the binder-platform with the main frame as to balance the latter, or nearly balance it, upon its axle.

The binder designed to be represented at G' on the drawing is of the kind described in Letters Patent granted to me March 9, 1875, No. 160,732; but of course the binder employed, as also the other parts of the machine not particularly described, may be of any usual or preferred construction and arrangements.

Having now described my invention, what

I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the binder-platform G with the main frame, through the medium of the grain-platform and the bar K, arranged and operating substantially as described.

2. The bar K and spring *m*, applied to and operating in combination with the main frame and binder-platform, substantially as described.

In testimony whereof I have hereunto set my hand.

CHARLES L. TRAVIS.

Witnesses:

H. D. GORDON,
L. L. TERRY.