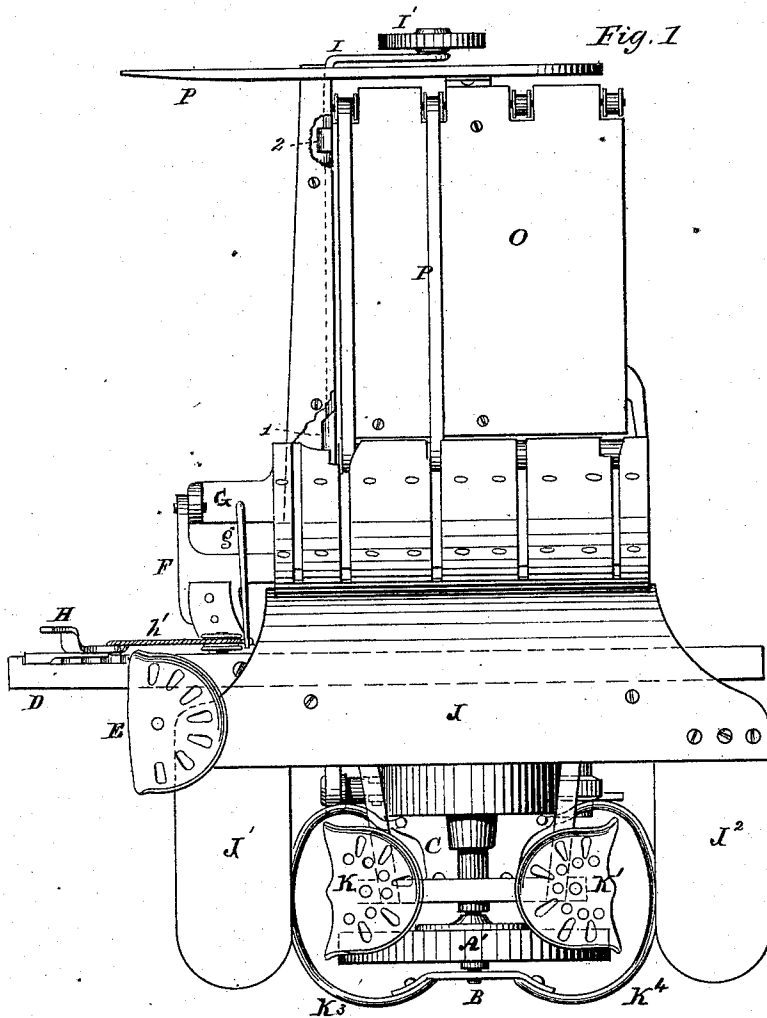


J. F. SEIBERLING.
Harvesting-Machines.

No. 157,937.

Patented Dec. 22, 1874.



WITNESSES
Wm. A. Haysleben
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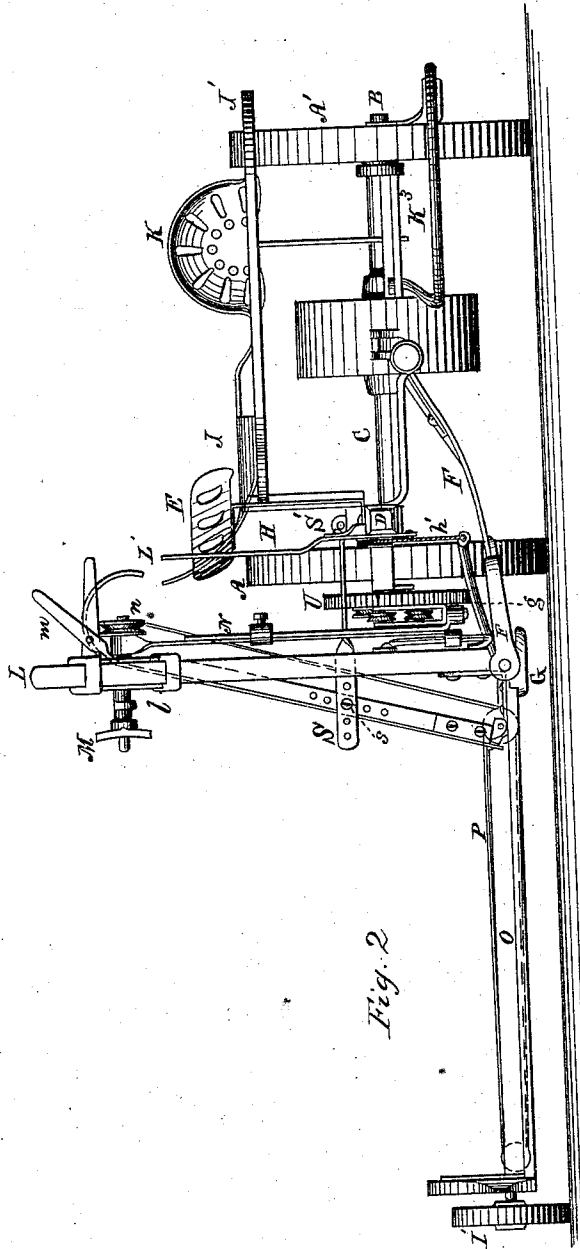


Fig. 2

Witnesses

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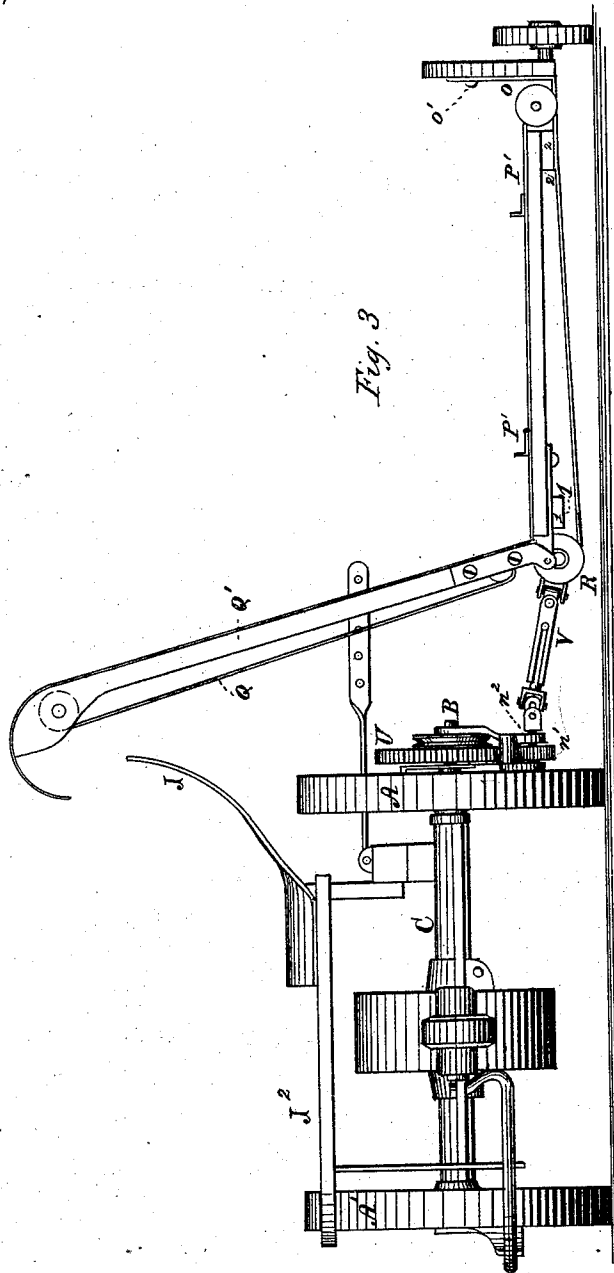
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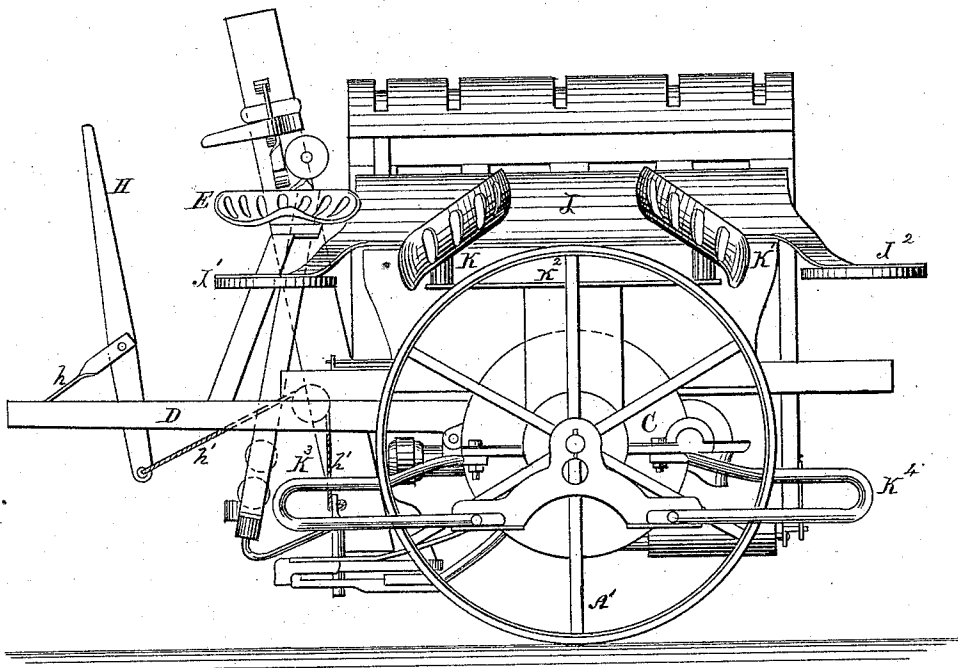
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Fig. 4



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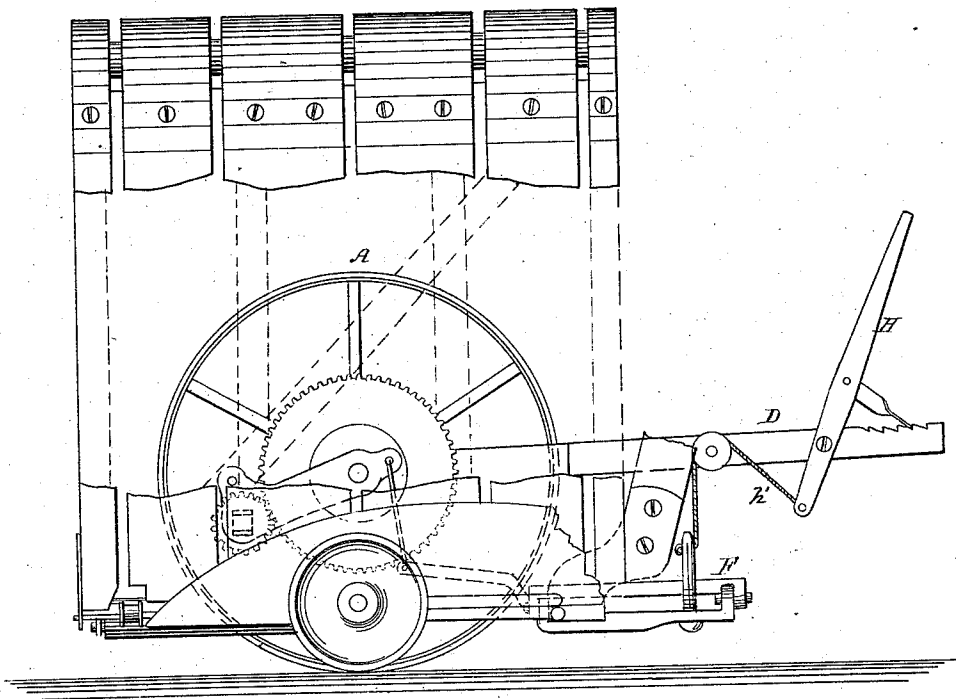
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Fig. 5



WITNESSES

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INVENTOR

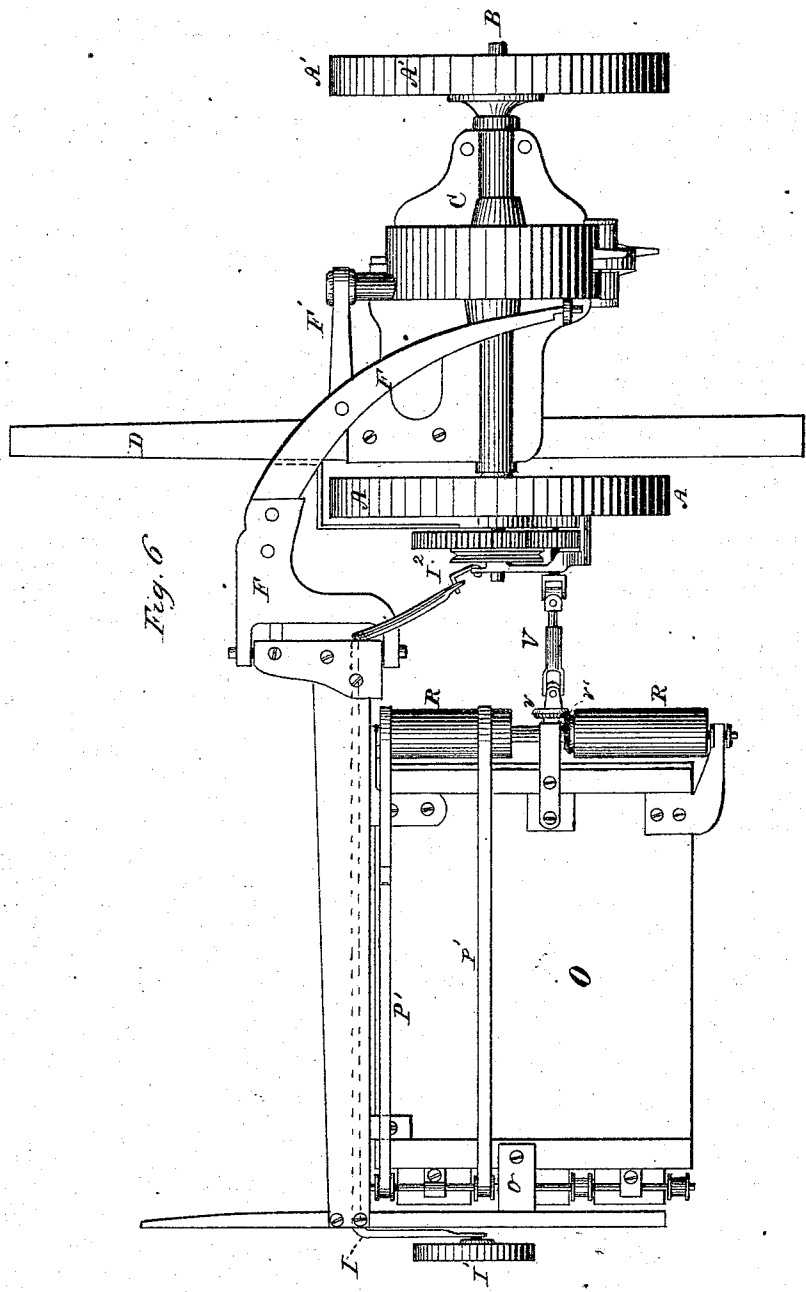
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UNITED STATES PATENT OFFICE.

JOHN F. SEIBERLING, OF AKRON, OHIO.

IMPROVEMENT IN HARVESTING-MACHINES.

Specification forming part of Letters Patent No. **157,937**, dated December 22, 1874; application filed July 2, 1874.

To all whom it may concern:

Be it known that I, JOHN F. SEIBERLING, of Akron, in the county of Summit and State of Ohio, have invented certain new and useful Improvements in Harvesters, of which the following is a specification:

My invention relates to the combination of an elevating-carrier and a hand binding attachment with a two-wheeled hinged-joint machine. The nature, object, and subject-matter of my invention are hereinafter specifically designated.

In the accompanying drawings all my improvements are shown as embodied in one machine in the best way now known to me.

Figure 1 is a plan view of the machine; Fig. 2, a front elevation thereof; Fig. 3, a partial rear view; Fig. 4, a view in elevation of the gearing or stubble side of the machine; Fig. 5, a similar view of the machine as seen from the divider side thereof, with portions of the carrier or elevating-apron broken away to show the parts behind it more clearly. Fig. 6 is a bottom-plan view of the machine.

The two main driving and supporting wheels A A' turn loosely on a main axle, B, with which they are connected by the usual backing-ratchets. The axle turns in long pipe-box bearings in a cast-metal frame, C, by preference shaped as shown, to afford space for the binders to occupy, as hereinafter more fully set forth. A tongue, D, projects from the inner front corner of this frame. A seat, E, for the driver, is mounted on the tongue, well in advance of the driving-wheel, to leave room for the binding attachments. A coupling-frame, F F', is pivoted to the main frame at one end, and to a shoe, G, at the other, in a well-known way. A lifting-lever, H, is pivoted on the tongue in advance of the driver's seat, held in any desired position by a detent and pawl, h, and connected with a lifting-arm, g, fixed on the shoe G, by a cord or chain, h', passing over a pulley on the tongue. A double-cranked rod or rock-shaft, I, extending parallel with the finger-beam, carries a grain-wheel, I¹, at one end, the other arm being connected to the axle by a link, I². (See Fig. 6.) This device is not, however, claimed herein, as it forms part of the subject-matter of a pending application of mine for Letters Patent. A grain-

receiver, J, is arranged over the inner driving-wheel lengthwise of the machine. Binders' tables J¹ J² are arranged at each end thereof. Binders' seats K K¹ are pivoted, so as to turn slightly on their supports, in a frame, K², are inclined in opposite directions, and arranged nearly over the outer driving-wheel, and between the tables J¹ and J². The frame C is cut away on the outer side of the gear-casing, so as to leave room for the feet and legs of the binders, who sit back to back, with their feet resting on rails K³ K⁴, extending below the main frame. These foot-rests are secured to the main frame between the driving-wheels, and extend downward and outward around the outer driving-wheel, their outer ends being supported by the projecting end of the main axle, preferably by means of a pendent bracket. A reel-post, L, is mounted on the heel end of the finger-beam. A reel, M, of usual construction, the hub only of which is shown in the drawings, is mounted in bearings in a bracket, l, capable of sliding freely up and down on the reel-post, and held at any desired elevation by a pawl, m, locking with a detent on the reel-post. A lifting-lever, L', extends from this bracket within easy reach of the driver, to enable him to raise and lower the reel without stopping the machine. The reel is driven by a belt from a pulley on the main axle or driving-wheel shaft, which belt passes around tension-pulleys on a swinging arm, N, pivoted on the reel-bracket. These parts, being shown in prior applications of mine, need not be herein more particularly described. The platform O is attached to the machine in a peculiar manner, being held in front by means of lugs 1 2, which fit under the finger-beam. The divider P is secured rigidly to the finger-beam, and the platform is secured to the divider by means of a single strap, o, and a screw or bolt, o', by which means the platform can be set up or down, or rock on its pivot-connection with the divider.

The opposite inner or grain end of the platform has no permanent connection with the finger-beam or main frame, the lugs 1 2 and the bolt o' forming the only means of connecting the platform and finger-beam. The platform is traversed by an endless-apron rake, or a series of toothed carrying-belts, P', which

run over rollers, as usual. A similar elevating-apron or series of carrying-belts, Q, run over rollers in a frame, Q', which frame is hinged on the shaft of the rollers R, over which the inner ends of the carrying-belts and the lower ends of the elevating-belts run, thus allowing the elevator-frame Q to be moved around the roller to vary its angle of inclination relatively to the platform, and to the grain-receptacle J, which, it will be noted, is fixed on the main frame, and not connected with the elevator-frame. In order that the elevator-frame may move up or down as the hinge-joint of the finger-beam flexes, and yet retain it in proper relation to the grain-receptacle, the elevator-frame is connected with the main frame or the tongue by means of a link, S, pivoted at each end so as to move freely with the elevator-frame. This link is provided with a series of holes, through any one of which a pin, s, may pass to adjust the elevator-frame vertically. The end of this link next the frame is pivoted in a bracket, S', which is made adjustable backward and forward on the tongue by means of a slot and set-screw or other equivalent well-known means, thus accommodating the rocking movement of the elevator-frame and platform, as the back end of the platform is set higher or lower. A spur-wheel, U, on the main axle drives a corresponding pinion, n^1 , in a bracket-frame, n^2 . An extensible tumbling-shaft, V, drives a pinion, v , on a shaft mounted in bearings in the platform, which pinion v , in turn, drives a similar one, v' , on the roller on which the elevator-frame is hinged, and by which roller the carrying-belts are driven.

It will thus be seen that by my improvements I am enabled to mount the binding attachments on a two-wheeled hinged-bar mower, and to secure a harmonious co-operation of the various parts of the machine, while allowing the cutting apparatus freely to rise and

fall to conform to undulations of the surface of the ground. I am also enabled to adjust the machine to the varying conditions of the crop to be harvested.

I do not broadly claim the combination of an elevating-apron mounted on a hinged finger-beam with a grain-receptacle fixed upon the main frame. Neither do I broadly claim combining a hinged elevator with the frame by a jointed link; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of the main frame, the grain-receptacle mounted on the main frame, the hinged finger-beam, the adjustable coupling-frame connecting said main frame and finger-beam, the lifting lever and cord, the platform secured upon the finger-beam, the hinged elevator mounted upon the platform, and the link connecting the elevator and main frames, these members being constructed and operating as set forth, whereby the cutting apparatus and elevator may be adjusted to varying heights and still maintain the proper relation between the elevator and grain-receptacle.

2. The rails or foot-rests secured to the main frame between the driving-wheels, extending below the axle, and around the outer driving-wheel, and supported by the outer end of the axle, as set forth, whereby the binders are enabled to stand either inside or outside of the wheel.

3. The adjustable link S, in combination with the main frame and hinged elevator-frame, whereby the latter may be adjusted in proper relation to the main frame, as herein set forth.

In testimony whereof I have hereunto subscribed my name.

JOHN F. SEIBERLING.

Witnesses:

WILL. H. MANNING,
J. M. POULSON.