RHINEHART & GASTON.

Wheel Cultivator.

No. 84,763. Patented Dec. 8, 1868.

Fig. 1.

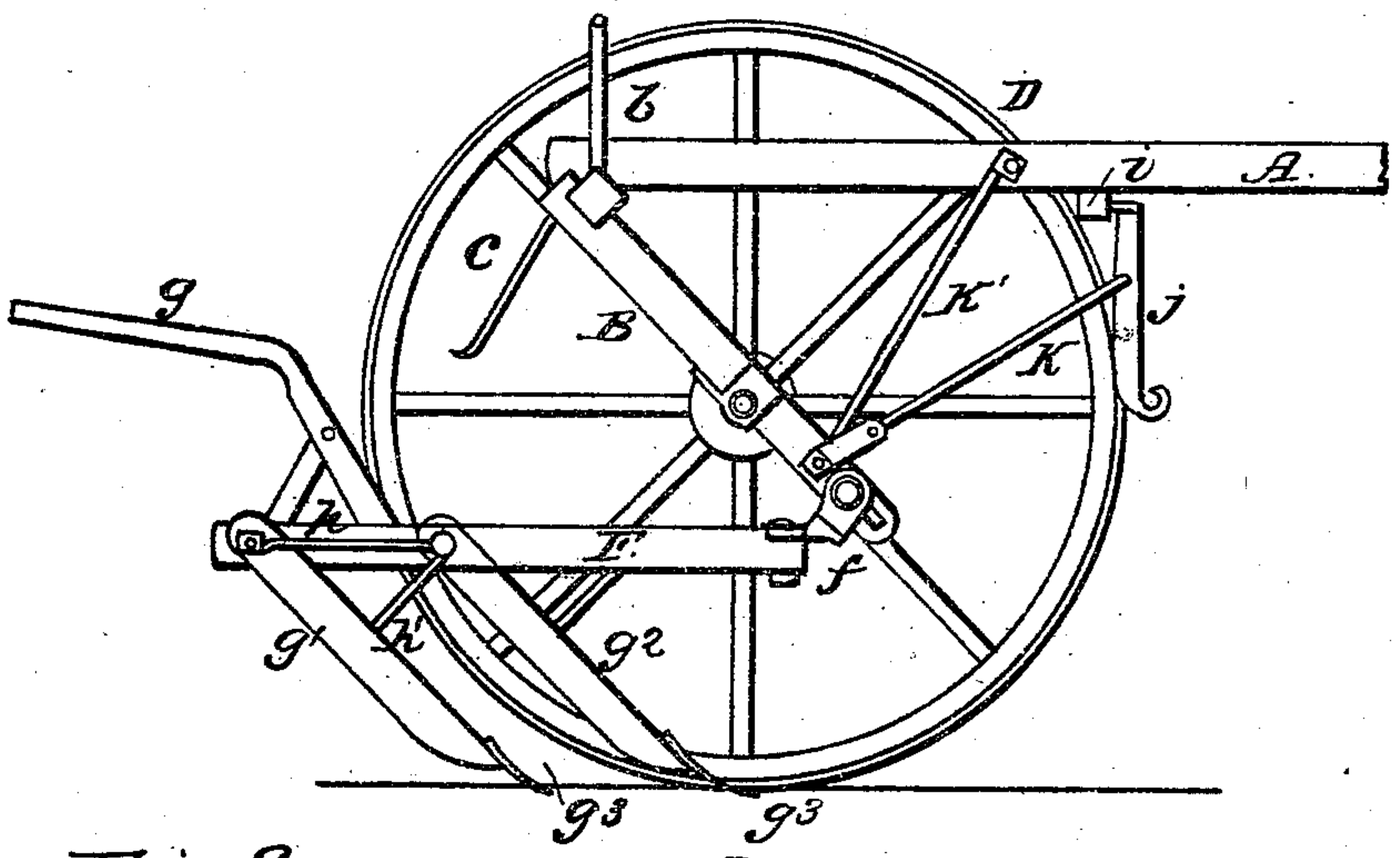
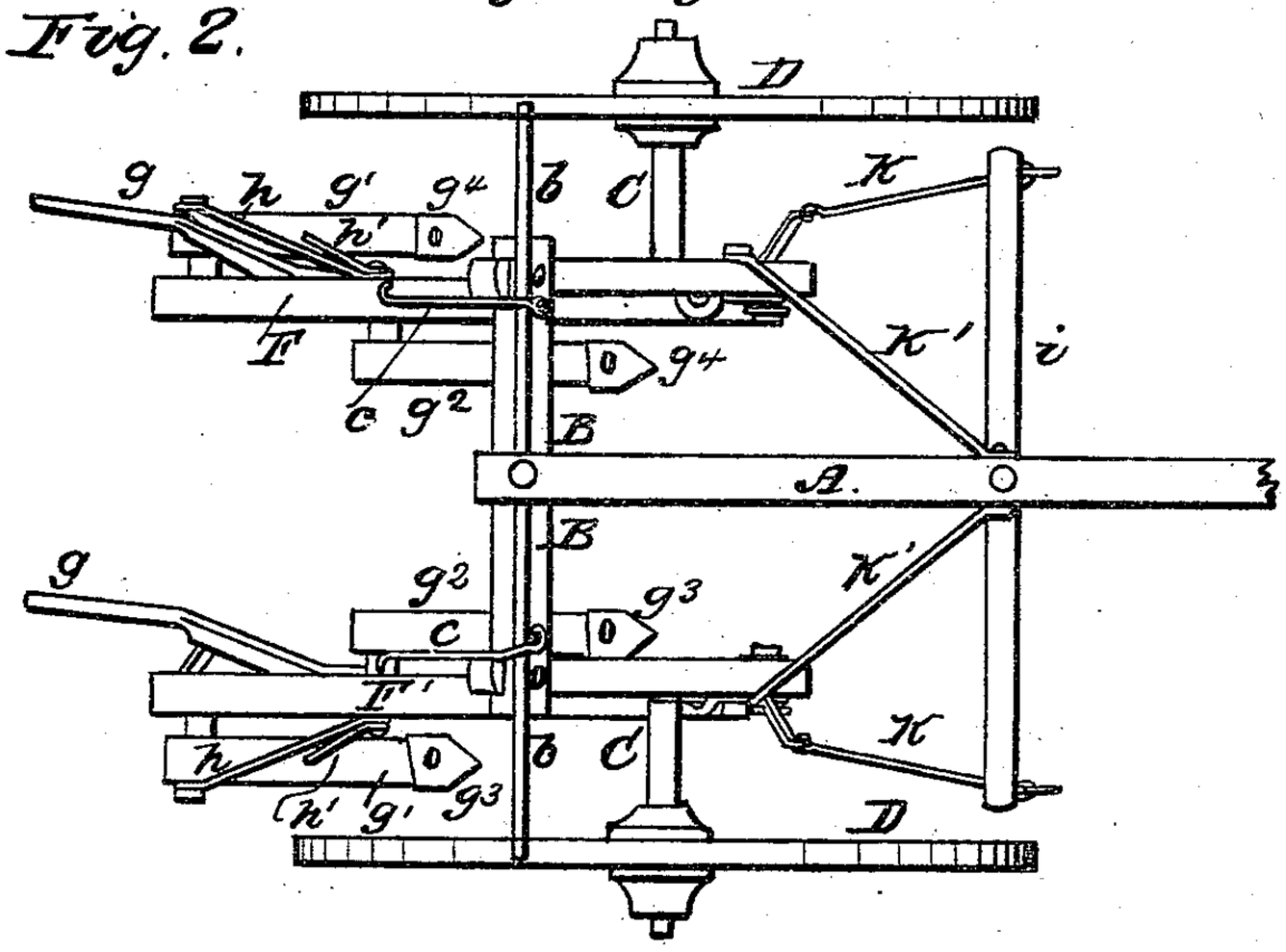


Fig. 2.



Witnesses

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Letters Patent No. 84,763, *dated December* 8, 1868.

IMPROVEMENT IN CORN-PLOWS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, W. C. RHINEHART and ROBERT GASTON, of Oskaloosa, in the county of Mahaska, and State of Iowa, have invented certain new and useful Improvements in Corn-Plows; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification, and in which—

Figure 1 represents a side elevation of our plow, and Figure 2, a plan view of the same.

The nature of our invention consists in the peculiar arrangement of the frame to which the tongue and wheels are attached, and also in hinging the plow-beams, provided with the inclined plow-points or standards, to said frame, so that they may have both a vertical and lateral motion, in combination with such other devices as will be hereinafter set forth.

To enable others skilled in the art to which our invention appertains, to make and use the same, we will now describe its construction and operation.

In the accompanying drawings—

A represents the tongue, to the rear end of which is secured the upper bar of the frame B, which is made to incline inwardly at an angle of about forty-five degrees from the tongue.

The bar of frame B, to which the tongue is attached, is supplied at each end with a fender, *b*, which is made to extend out therefrom directly over the wheels of the machine, to prevent the driver's reins from coming in contact with the said wheels.

At the point where these fenders are secured and bent over the upper part of the frame B, and extending outwards at an acute angle therefrom, are arms or supports *c c*, provided or formed at their lower ends with hooks; the object of said supports being to hold the beams of the plows in an elevated position when not in use.

C C designate the axles, which are secured to each side of the frame B, and provided with the wheels D D.

F F′ are the plow-beams, the beam F being hinged to the inner side of the lower end of one of the pendent bars of frame B, and beam F′ being hinged to the outer side of the other pendent bar of said frame, directly opposite beam F.

The means employed in hinging these beams consists in a plate, *f*, made horizontal on a portion of its surface, and its remaining portion placed or twisted edgewise therewith, which is pivoted to the frame B, the former part being pivoted to the beams F and F′, and by so hinging said beams they are permitted to have both a vertical and lateral motion, in order to allow them to be placed nearer or further apart, or be thrown up out of the way when not in use.

g g are the plow-handles, which are secured to the plow-beams, and made to extend out therefrom somewhat longer than the ordinary plow-handles, for the purpose of assisting the driver in working the plows.

g^1 g^2 are plow-standards, placed in an inclined position, as seen in fig. 1.

The standards g^1 g^1 are bolted out a short distance from and to the beams F F′, and thus held more firmly by braces *h h′*, while the standards g^2 g^2 are secured in like manner a short distance inwardly from the standards g^1 g^1, on the opposite side of the plow-beams.

The standards g^1 g^2 are also supplied, at their lower extremities, with the shovels or plow-points g^3 and g^4.

The shovels g^3 g^3 are made so as to throw the dirt inwardly, while the shovels g^4 g^4 are made to throw it in the opposite direction.

i is the double-tree, to each end of which is loosely secured, in a vertical position, a metal bar, *j j*, which is formed at its lower end with a hook, into which the trace on the horse catches, and thus acting as a single-tree.

The bars or single-trees *j j* are secured to the frame B by means of metal bars or rods *k k*.

k′ k′ are other metal rods, secured at one end to the tongue A, and fastened at its opposite ends to the frame B.

Having thus described our invention,

What we claim, and desire to secure by Letters Patent, is—

The inclined fenders *b b*, for protecting the reins of the driver from the action of the wheels, in combination with the inclined frame B, substantially as set forth.

In testimony that we claim the foregoing as our own, we affix our signatures, in presence of two witnesses.

W C. RHINEHART.
ROBERT GASTON.

Witnesses:

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W. E. SHEPHERD.