No. 773,559. PATENTED NOV. 1, 1904.

D. FREEMAN & H. KARR.

RIDING ATTACHMENT FOR PLOWS.

APPLICATION FILED JAN. 25, 1904.

NO MODEL.

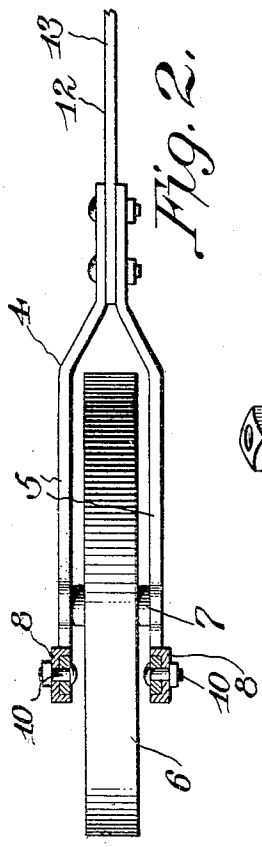


Fig. 2.

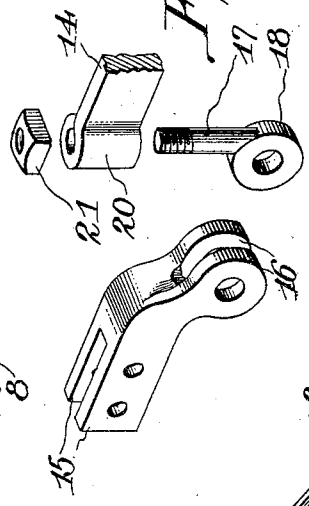


Fig. 3.



Fig. 1.

Witnesses

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No. 773,559. Patented November 1, 1904.

# UNITED STATES PATENT OFFICE.

DELOS FREEMAN AND HARRY KARR, OF CELINA, OHIO.

## RIDING ATTACHMENT FOR PLOWS.

SPECIFICATION forming part of Letters Patent No. 773,559, dated November 1, 1904.

Application filed January 25, 1904. Serial No. 190,560. (No model.)

*To all whom it may concern:*

Be it known that we, DELOS FREEMAN and HARRY KARR, citizens of the United States, residing at Celina, in the county of Mercer and State of Ohio, have invented a new and useful Riding Attachment for Plows, of which the following is a specification.

This invention relates to plows, and especially to a riding attachment therefor whereby the ordinary types of walking-plows may be readily converted to riding-plows, and has for its objects to produce a simple inexpensive device of this character which may be readily attached to or detached from the plow, and one which in practice will have a lateral movement independent of the lateral movement of the plow and also an independent vertical movement in conforming to surface irregularities.

To these ends the invention comprises the novel features of construction and combination of parts more fully hereinafter described.

In the accompanying drawings, Figure 1 is a perspective view of a plow having the attachment applied thereto. Fig. 2 is a detail plan view. Fig. 3 is a detail perspective view.

Referring to the drawings, 1 designates the plow, 2 its standard, and 3 the handle-bars attached to and projecting upwardly and rearwardly from the plow. These parts may all be of the usual or any preferred construction, inasmuch as they constitute no part of this invention.

In the attachment constituting the subject-matter of this invention, 4 designates a wheel-frame comprising a pair of spaced juxtaposed side members or bars 5, bent to substantially L form in side elevation and having a transporting-wheel 6 arranged between them and journaled upon a horizontal axle 7, having bearing at its ends in the bars. The vertical portion of the wheel-frame, which constitutes a seat post or standard 8, carrying at its upper end a seat 9, is made in two sections, vertically and longitudinally adjustable for regulating the height of the seat by means of bolts or equivalent devices 10, engaging one of a series of vertically-spaced openings 11, while the horizontal portion of the frame has the forward ends of its side bars bent inward toward each other and bolted or otherwise secured to the rear end of a connecting bar or element 12, the forward end of which is bolted or otherwise detachably secured to the standard 2. The bar or element 12 is composed of a pair of sections 13 14, of which the primary section 13 has attached to its forward end a pair of hinge members 15, provided with perforated ears 16 disposed in spaced relation, while the secondary section 14 has its end folded around the vertical cylindrical portion or pintle 17 of a hinge member provided at its lower end with a perforated ear 18, disposed between the ears 16 and pivotally connected thereto by a horizontal bolt or pintle 19, the vertical cylindrical portion 17 being retained in position in the vertical eye 20 at the end of section 14 by means of a nut 21. From this arrangement it is apparent that the section 13 may swing in a vertical plane on the pivot 19 and in a transverse or horizontal plane upon the pintle 17.

Adjustably attached to the bar or element 12 by means of a bolt 22, engaging one of a series of openings 23, is a pair of foot-rests or stirrups 24 to receive the feet of the attendant when riding upon the seat 9.

Attention is especially directed to the fact that owing to the seat-post 8 being disposed in rear of the axle 7 of the wheel the weight of the attendant will fall in the rear of the center of gravity of the wheel and will thus tend, through the medium of the bar 12, to lift the rear portion of the plow for projecting the point of the latter downward into the soil. After the plow has entered the soil a sufficient depth the operator may by pressing his feet downward upon the stirrups 24 exert a downward pressure upon the bar 12, thereby counterbalancing his weight upon the seat and bringing the rear portion of the plow level with the point of the latter for travel through the ground, or by further pressure on the stirrups elevate the point of the plow for causing the latter to move out of the soil. Thus it is apparent that the adjustment of the plow in the ground is regulated or controlled by the pressure of the operator's feet upon the stirrups and that the amount of the requisite pressure for this purpose may be regulated,

owing to the adjustment of the stirrups along the bar 12 toward and from the seat-post. Further, that owing to the peculiar connections between the sections 13 14 the attachment will have a transverse play independent of the line of travel of the plow and also a vertical movement independent of the latter in conforming to surface irregularities and to permit of said attachment being swung bodily upward and suspended upon a hook or like supporting device 25, attached to the handle-bars 3.

From the foregoing it will be seen that there is produced a device of simple construction which in practice will efficiently perform its functions and may be readily attached to and removed from any of the ordinary forms of plows now in general use. In attaining these ends it is to be understood that various minor changes in the details of construction herein set forth may be made without departing from the spirit of the invention.

Having thus described this invention, what is claimed is—

1. The combination with a plow, of a wheel-frame connected therewith, said frame comprising a pair of spaced substantially L-shaped members having vertical portions constituting a seat-post, a wheel mounted for rotation between said members and in advance of the seat-post, and a seat sustained by said post.

2. The combination with a plow, of a wheel-frame, a wheel mounted for rotation in the frame, a seat-post associated with the frame, a seat sustained by the latter, and a connecting-bar disposed between the plow and wheel-frame, said bar comprising a primary and a secondary section, a hinge member connected with the primary section, a hinge member having vertical pivotal connection with the secondary section, and a horizontal pintle pivotally connecting the hinge members.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

DELOS FREEMAN
HARRY KARR.

Witnesses:
L. N. JOHNSON,
W. S. JOHNSON.