

(No Model.)

G. MOORE.
COMBINED CLEVIS AND GAGE WHEEL.

No. 481,186.

Patented Aug. 23, 1892.

Fig. 2.

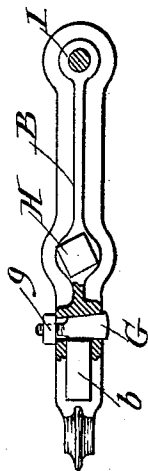


Fig. 4.

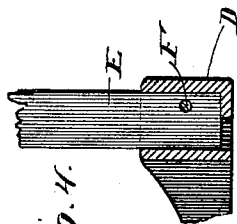


Fig. 3.

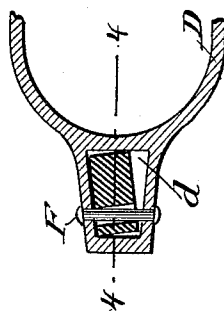
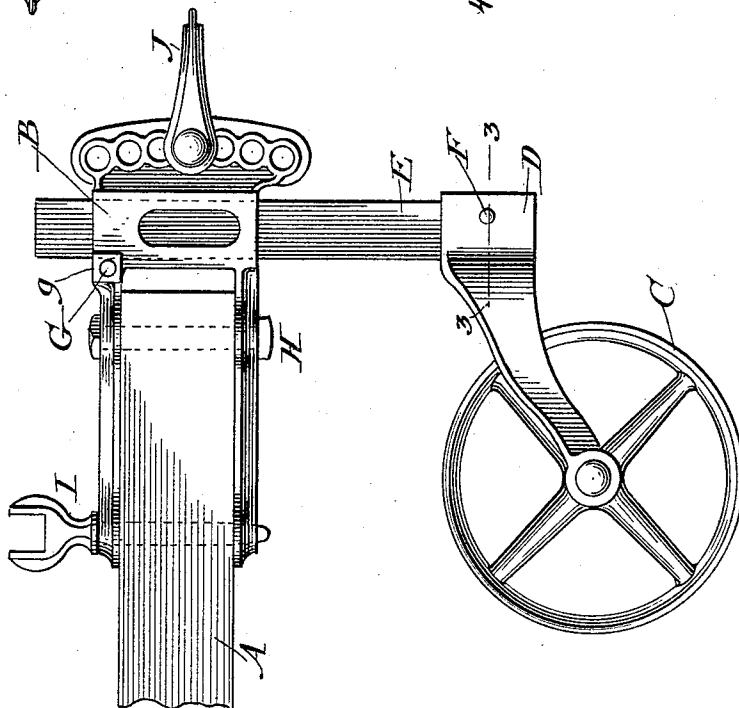


Fig. 1.



Witnesses:

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UNITED STATES PATENT OFFICE.

GILPIN MOORE, OF MOLINE, ILLINOIS, ASSIGNOR TO THE DEERE & COMPANY,
OF SAME PLACE.

COMBINED CLEVIS AND GAGE-WHEEL.

SPECIFICATION forming part of Letters Patent No. 481,186, dated August 23, 1892.

Application filed January 3, 1891. Serial No. 376,668. (No model.)

To all whom it may concern:

Be it known that I, GILPIN MOORE, a citizen of the United States, residing at Moline, in the county of Rock Island and State of Illinois, have invented a new and Improved Combined Clevis and Gage-Wheel Attachment for Plows, of which the following is a specification, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation. Fig. 2 is a top or plan view, part being broken away. Fig. 3 is a detail, being a section on line 3 3 of Fig. 1; and Fig. 4 is a detail, being a section on line 4 4 of Fig. 3.

My invention relates to gage-wheels and their attachments for the forward ends of plow-beams, and more particularly to plows having a lateral adjustment of the beam at the plow-standard, commonly known as "index-beams," which adapt the plow to take more or less land.

One of the objects of my invention is to provide a novel gage-wheel attachment for plows, which will permit of the vertical adjustment of the gage-wheel shank; and a further object is to provide a gage-wheel for plows, having laterally-adjustable beams, which will be adapted to track with the plow-beam as the latter is adjusted on the plow-standard. I accomplish these objects as illustrated in the drawings and as hereinafter described. That which I regard as new will be pointed out in the claims.

In the drawings, A indicates the plow-beam, of which only the forward portion is shown.

B indicates a clevis, which is secured to the plow-beam by the bolts H I. The clevis B extends a short distance in front of the plow-beam, and is provided with a vertical slot or opening *b*, adapted to receive the shank of a gage-wheel, and with the usual adjusting holes for the small or secondary clevis J.

C indicates a gage-wheel, which may be of any ordinary form, and it is provided with a yoke D and shank E. The shank E is loosely pivoted in a socket *d* in the yoke D by a pin F or equivalent pins or collars above and below or in any other suitable manner, the socket *d* being widened at one end, as shown in Fig. 3, to permit a limited lateral motion of the yoke D and wheel C, and the hole through

the shank is somewhat larger than the pin F. This construction allows sufficient lateral play of the gage-wheel on its shank to permit it to track with the plow-beam when it is adjusted laterally on the plow-standard or when the clevis is laterally adjusted by the bolts H or I, passing through adjusting-holes in the beam.

The upper portion of the shank E passes through the vertical opening *b* in the clevis and is secured therein at any desired height by means of a wedge-bolt G, which passes through the clevis at one side of the slot or guideway *b*, as best shown in Fig. 2, and it is adapted to bear against and hold the shank E. The bolt G is drawn in and held by the nut *g*. When the wedge-bolt G is tightly secured, it operates to wedge the shank E of the gage-wheel between the bolt G and the opposite side of the slot *b*, and thus firmly secures the shank in the clevis. By securing the gage-wheel shank in the clevis itself the shank will partake of any movement given to the clevis, which is a desirable feature in many classes of plows. By drawing the wedge across the shank its adjustment is not disturbed by the tightening of the wedge to lock it in its position, and by partly closing the socket of the wheel-yoke at the bottom, as shown in Fig. 4, the strain is largely taken from the pin F by the cross-plate, while by not wholly closing it the socket does not retain dirt or moisture.

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

1. The combination, with a plow-beam, of a draft-clevis rigidly secured to the plow-beam and having an angular slot therein, a gage-wheel shank angular in cross-section and movable vertically in the slot, a transverse wedge-shaped bolt passing through the draft-clevis and bearing against one edge of the angular shank to hold the latter in different positions of vertical adjustment, and a gage-wheel having a yoke formed with a socket of greater size than the shank and engaged therewith, so that the gage-wheel can trail the plow-beam without turning the shank, substantially as described.

2. The combination, with a plow-beam, of a draft-clevis rigidly secured to the plow-beam and having a vertical angular slot therein, a

gage-wheel shank angular in cross-section and movable vertically in the slot of the clevis, means for holding the shank in different positions of vertical adjustment in the slot of the
5 clevis, a gage-wheel yoke having a socket widened at its forward portion and in which the shank is arranged, and a pin passing through the shank and socket to permit the
10 gage-wheel to trail the plow-beam without turning the shank, substantially as described.

3. The combination, with a draft-clevis, of

a non-rotary shank vertically adjustable in the clevis, and a gage-wheel having a shank D, provided with a socket *d*, which is widened at its forward portion to enable the gage-wheel
15 to trail the plow-beam without turning the shank, substantially as described.

GILPIN MOORE.

Witnesses:

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