No. 829,710.

PATENTED AUG. 28, 1906.

E. T. GARRETT.

GAGE WHEEL FOR PLOWS.

APPLICATION FILED JUNE 30, 1905.

2 SHEETS—SHEET 1.

Fig. 1.

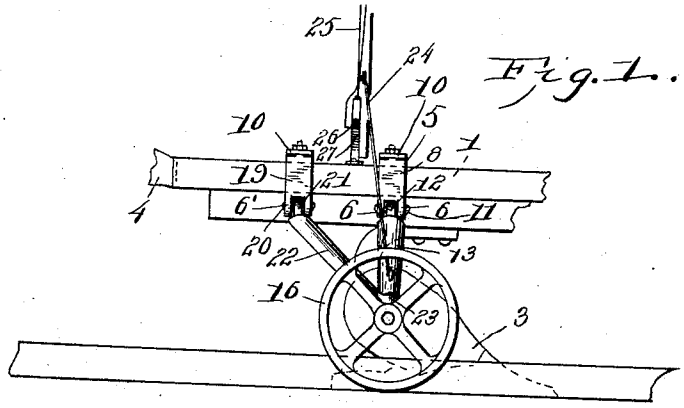
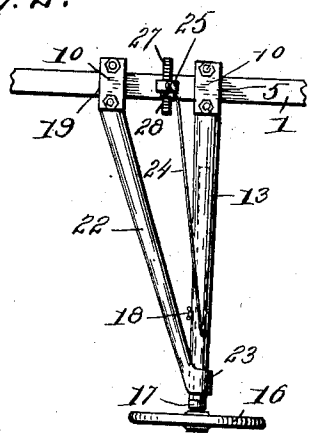


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

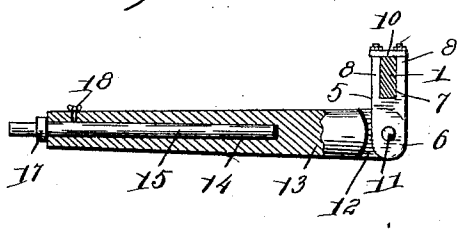
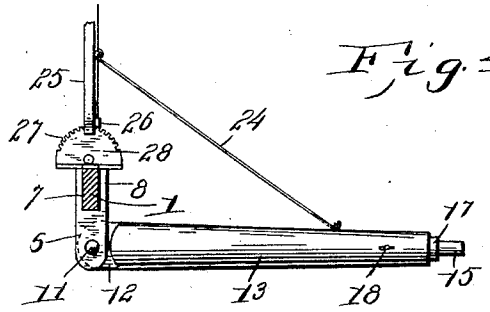


Fig. 4.



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UNITED STATES PATENT OFFICE.

EDWARD T. GARRETT, OF CALVIN, LOUISIANA, ASSIGNOR OF ONE-THIRD TO THOMAS H. MATHIS, OF CALVIN, LOUISIANA.

GAGE-WHEEL FOR PLOWS.

No. 829,710. Specification of Letters Patent. Patented Aug. 28, 1906.

Application filed June 30, 1905. Serial No. 267,732.

To all whom it may concern:

Be it known that I, EDWARD T. GARRETT, a citizen of the United States, residing at Calvin, in the State of Louisiana, have invented certain new and useful Improvements in Gage-Wheels for Plows; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to gage-wheels for plows.

One object of the invention is to provide an exceedingly simple, inexpensive, durable, and efficient gage of the caster type.

Another object of the invention resides in the provision and support of a gage-wheel with respect to the plow beam and point or shovel which may be readily applied and easily and quickly adjusted.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and more particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the present invention.

In the drawings, Figure 1 is a side elevation of my invention. Fig. 2 is a top plan view of the invention. Fig. 3 is a longitudinal sectional view through the tapering arm and spindle. Fig. 4 is a detail view of the brace.

Referring now more particularly to the accompanying drawings, the reference character 1 designates the plow-beam, which is supported by means of the usual form of standard, the plow-point being designated by the reference character 3.

Secured to the beam 1 is a bracket 5, whose lower end is bifurcated to form spaced ears 6, with its upper end bifurcated in a direction at right angles to the aforesaid bifurcation, whereby the bracket may embrace the corresponding sides of the beam 1, the upper ends of the legs 8 formed as the result of the bifurcation 7, being reduced for the reception of a clamping-plate 10, through the instrumentality of which latter the bracket may be tightly clamped upon the beam 1, it being obvious that by reason of this peculiar connection of the bracket with the clamp the bracket may be readily adjusted along the plow-beam. Pivotally secured between the ears 6 of the bracket, by means of a suitable pivot-pin 11, is the reduced end 12 of a tapering arm 13, the outer end of said tapering arm 13 having an elongated recess 14 therein for the reception of a spindle 15, which latter has its outer extremity projecting beyond the arm 13 for the reception of a gage-wheel 16, there being a shoulder 17 upon the said spindle to limit the inward movement of the wheel with respect to the spindle and to limit the inward movement of the spindle with reference to the arm 13. By means of a suitable screw 18, which pierces the arm 13 and engages the spindle 15, the latter may be adjusted inwardly and outwardly of the arm 13, as well understood.

Secured to the beam 1 is a second bracket 19, which is formed the same as the bracket 5 and secured to the beam in the same manner as is the first bracket. Pivotally secured, by means of a pivot-pin 20, between ears 6′ of the bracket 19, is the bent end 21 of a brace 22. It will be noted that the bent end 21 of the brace 22 extends outwardly at a direct right angle to the beam with the body portion of the said brace being directed toward the aforesaid arm 13, there being a ring 23 formed at the outer end of the said brace 22, adapted to embrace the outer end of the tapering arm 13 to aid in supporting the latter and the gage-wheel.

By reason of the pivotal mounting of the arm 13 and the brace 22 a vertical movement thereof is permitted, thereby providing for a vertical adjustment of the gage-wheel as well as a horizontal adjustment of the latter, the said horizontal adjustment being accomplished by reason of the adjustable disposition of the spindle 15 within the recess 14 of the arm 13. Now in order to hold the arm 13 and brace 22 in different vertical adjustments I provide a rod 24, having connection with the arm 13 at one of its ends, with its opposite ends connected to a lever 25, mounted upon the beam 1, the lever 25 being provided with a pawl 26 for engagement with the teeth 27 of a segment 28, which latter is also secured to the beam 1.

What is claimed is—

1. The combination with a plow-beam of

an arm connected with beam for swinging movement in a vertical plane, a bracket-arm pivotally connected at one of its ends and secured at its opposite end to the first-named arm, a gage-wheel mounted at the end of the first-named arm, and means for moving the arm and holding it at various points of its movement.

2. The combination with a plow-beam of brackets detachably disposed upon the beam, arms pivotally connected at corresponding ends to the brackets and mutually secured at their opposite ends, said arms being arranged for movement in a vertical plane, a gage-wheel journal at the outer end of one of the arms and means for moving the arms and for holding them at various points of their movement.

3. The combination with a plow-beam, of brackets detachably mounted upon the beam, arms pivoted at corresponding ends to the brackets and mutually connected at their opposite ends, one of said arms being provided with a bore, a spindle detachably engaged in the bore, a gage-wheel journal upon the spindle, a lever, and a rod connection at one of its ends to the lever and to its opposite end to one of the arms whereby the same may be moved.

In testimony whereof I affix my signature in presence of two witnesses.

EDWARD T. GARRETT.

Witnesses:
J. E. CARTER,
E. L. DRUMMOND.