W. A. PAUL.

PLOW BEAM ADJUSTMENT.

APPLICATION FILED APR. 5, 1913.

1,136,833. Patented Apr. 20, 1915.

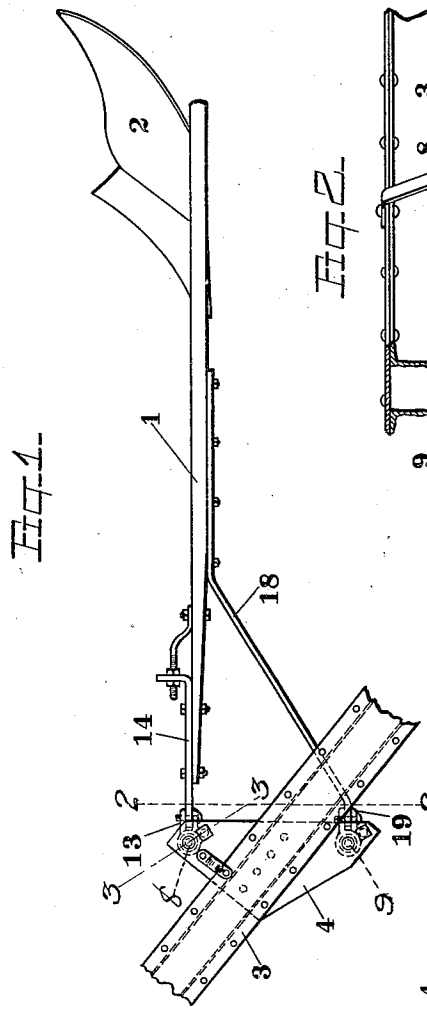

Fig. 1.

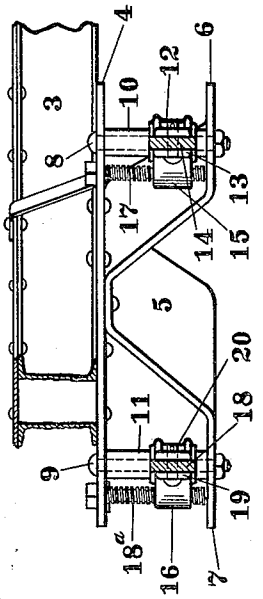

Fig. 2.

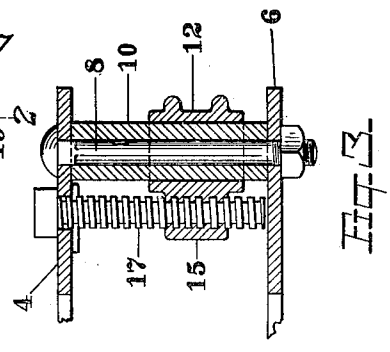

Fig. 3.

Witnesses:
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UNITED STATES PATENT OFFICE.

WESLEY A. PAUL, OF MOLINE, ILLINOIS, ASSIGNOR TO DEERE & COMPANY, OF MOLINE, ILLINOIS, A CORPORATION OF ILLINOIS.

PLOW-BEAM ADJUSTMENT.

1,136,833. Specification of Letters Patent. Patented Apr. 20, 1915.

Application filed April 5, 1913. Serial No. 759,173.

To all whom it may concern:

Be it known that I, WESLEY A. PAUL, a citizen of the United States, residing at Moline, in the county of Rock Island and State of Illinois, have invented certain new and useful Improvements in Plow-Beam Adjustment, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to plows and more particularly to gang-plows of the moldboard type in which the plows are connected to a common frame, and the forward ends of the plow-beams are capable of vertical adjustment.

Referring to the drawings in which similar numerals indicate identical parts—Figure 1 is a plan view showing part of a frame and the means employed to attach a plow beam thereto. Fig. 2 is a section on the line 2—2 of Fig. 1. Fig. 3 is a detail in part section along the line 3—3 of Fig. 1.

I have, in Fig. 1, shown a single plow-beam 1, on which is mounted a moldboard plow 2, connected forwardly to a diagonal beam 3 forming part of a main-frame of a well known type; I employ an intermediate means to secure the plow-beam 1 to the beam 3 consisting of a plate 4 rigidly secured to the beam 3, and a plate 5 bolted or riveted to the plate 4, and extending downwardly and outwardly from its center and having its ends 6 and 7 extending horizontally. Between the plates 4 and 5 the forward end of the plow-beam 1 is supported and vertically adjustable, the supporting and adjusting means being so arranged that the force of the draft of the plow is carried by the former entirely, adding to the ease of adjustment and the efficiency and durability of the implement.

The plow-beam 1 is connected by a horizontal pivot to a rearwardly projecting portion, preferably bifurcated, of a member 12 vertically movable on a sleeve 10 disposed between the furrow-ward end of the plate 4 and the horizontal portion 6 of the plate 5, and secured by a bolt 8 passing through said sleeve 10 and the plates 4 and 5.

Projecting from the member 12, and preferably part thereof, is a threaded bearing 15 in which operates a screw 17, the latter passing through the plate 4 and having a square or angular head by which it is actuated. Secured to the plow-beam 1 is a brace 18 which extends forwardly and is pivotally connected to a rearwardly extending portion 19 of a collar 20 vertically movable on the sleeve 11 and having projecting therefrom a threaded bearing 16 in which operates a screw 18ª extending downwardly through the plate 4.

In my invention the means employed to support and adjust the plow-beam 1 and the brace 18 being identical, both the plow-beam 1 and the brace 18 can be adjusted at will to preserve the proper position of the plow.

I claim—

1. In a device of the class described, the combination of a main-frame, a horizontally disposed plate secured thereto, a plate connected with the first mentioned plate and having its ends spaced therefrom, a vertical member interposed between said plates adjacent the ends thereof and secured thereon, a plow-beam, a support movable on said vertical member and to which the plow-beam is horizontally pivoted, and means independent of said vertical member to adjust the support thereon.

2. In a device of the class described, the combination of a main-frame, a horizontally disposed plate secured thereto, a plate connected with the first mentioned plate and bent downwardly and extended laterally from said connection, a vertical member interposed between said plates adjacent the ends thereof and rigidly secured thereto, a support movable on said vertical member to which a plow-beam may be horizontally pivoted, and means independent of said vertical member and engaging with the support and operable to adjust the latter at will.

3. In a device of the class described, the combination of a main-frame, a horizontally disposed plate secured thereto, a plate connected intermediate its ends with the first mentioned plate and bent downwardly on opposite sides of said connection and having its end portions in a plane parallel to the first mentioned plate, vertical members interposed between the plates adjacent the ends thereof and rigidly secured thereto, a vertically movable support on each vertical member, a plow-beam horizontally pivoted on one of said supports, a brace connected to the plow-beam and horizontally pivoted to the second support, and

screws mounted between the plates and engaging with the plow-beam and brace supports and operable to adjust the latter at will.

4. In a device of the class described, the combination of a main-frame, a horizontally disposed plate secured thereto, a plate connected intermediate its ends with the first mentioned plate and bent downwardly and outwardly on opposite sides of said connection, vertical members interposed between the plates adjacent the ends thereof and rigidly secured thereto, a vertically movable support on each vertical member, a threaded bearing forming part of each support, a plow-beam horizontally pivoted to one support, a brace connected to the plow-beam and to the other support by a horizontal pivot, and screws mounted between the plates and engaged with said threaded bearings and operable to adjust said supports at will.

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

WESLEY A. PAUL.

Witnesses:
MARTIN PETERSON,
W. G. DUFFIELD.