

No. 681,970.

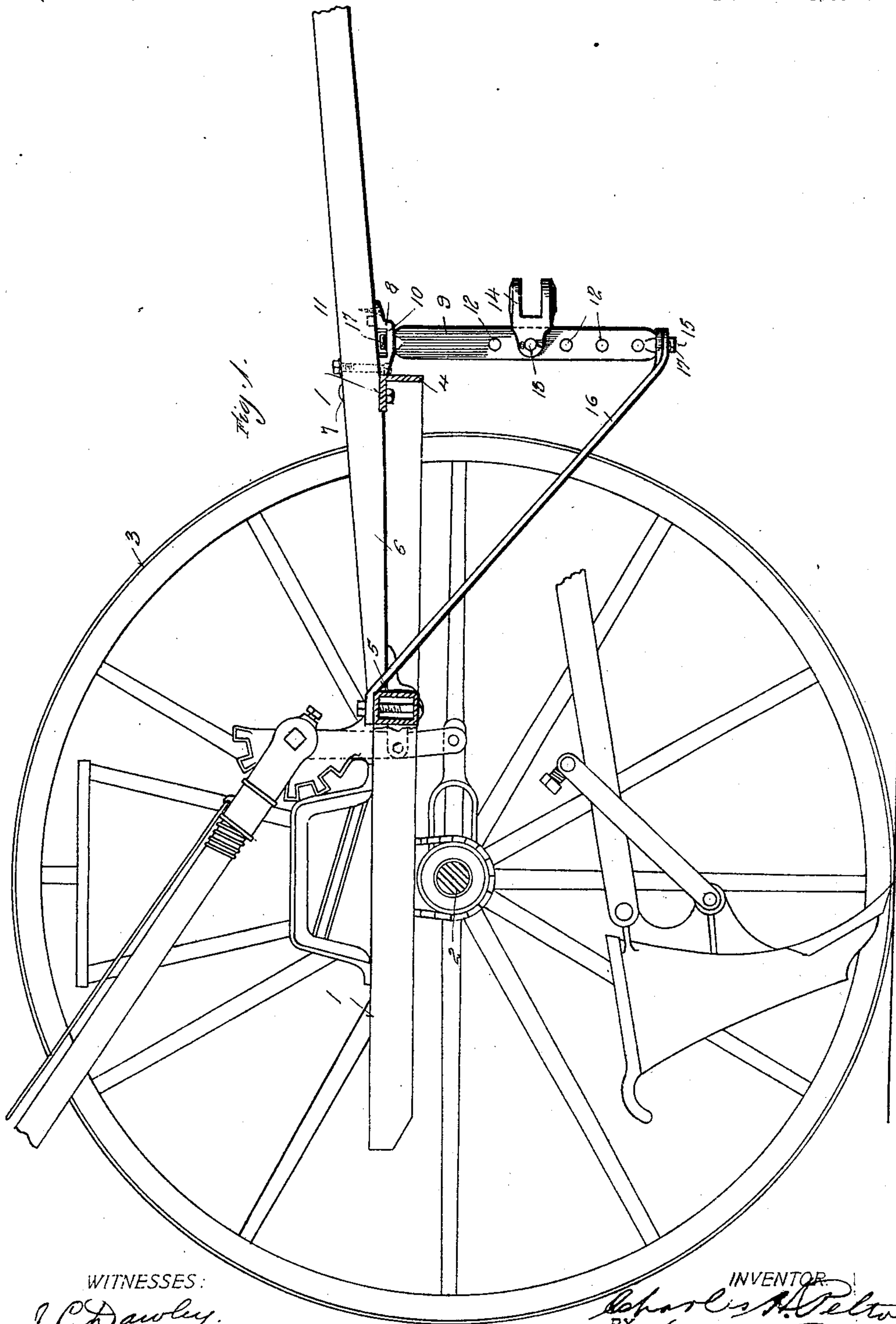
Patented Sept. 3, 1901.

C. H. PELTON.  
HITCH FOR GRAIN DRILL.

(Application filed July 8, 1901.)

(No Model.)

2 Sheets--Sheet 1.



WITNESSES:

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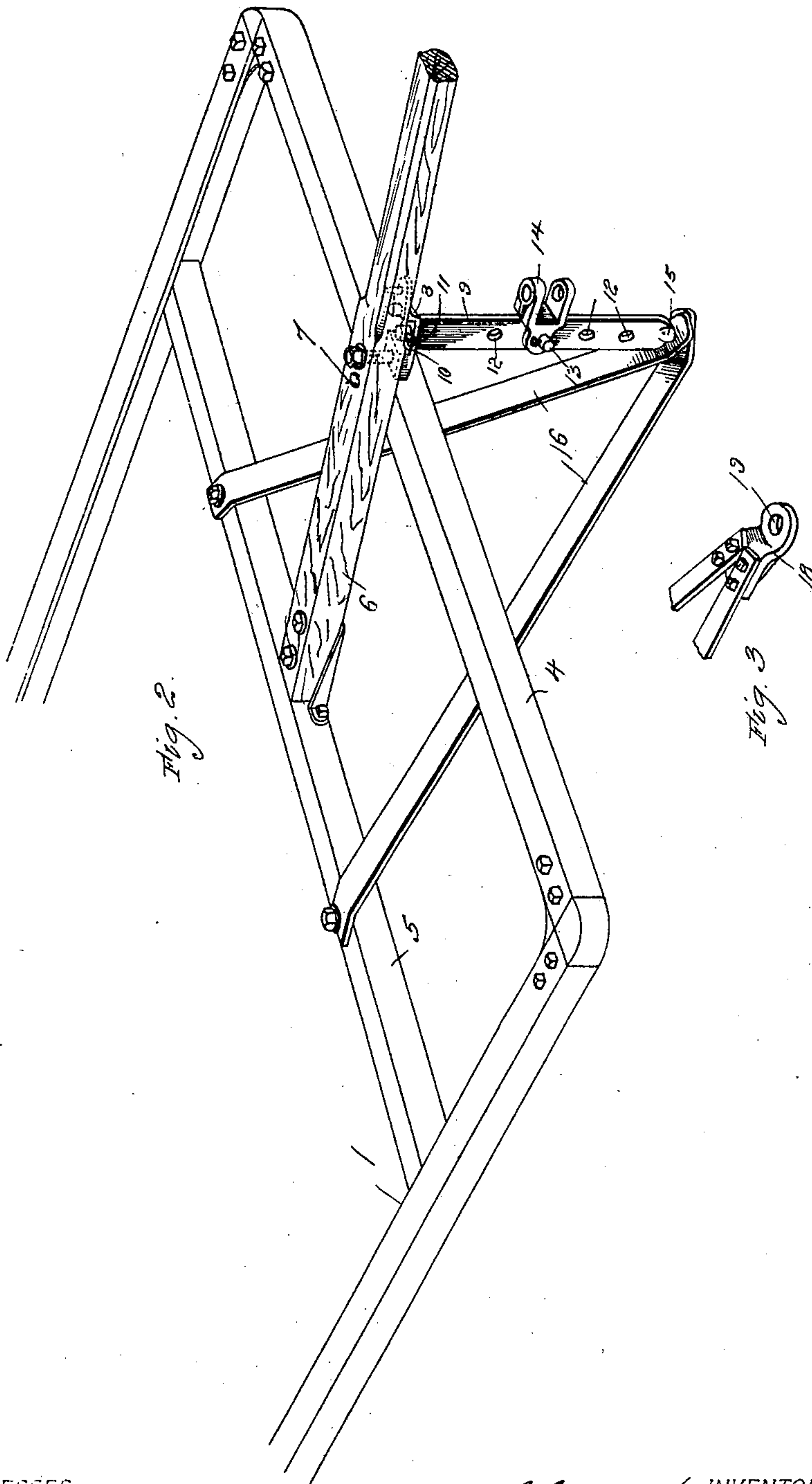
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# UNITED STATES PATENT OFFICE.

CHARLES H. PELTON, OF SPRINGFIELD, OHIO.

## HITCH FOR GRAIN-DRILLS.

SPECIFICATION forming part of Letters Patent No. 681,970, dated September 3, 1901.

Application filed July 8, 1901. Serial No. 67,406. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES H. PELTON, a citizen of the United States, residing at Springfield, in the county of Clark and State of Ohio, have invented certain new and useful Improvements in Hitches for Grain - Drills, &c., of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to hitches for grain-drills and the like, and has for its object to provide a construction whereby the point of attachment of the doubletree may be readily adjusted vertically and whereby the strains  
15 of the draft attachment will be distributed to the best advantage and without any tendency to rack or distort the frame.

20 To these ends the invention consists in certain novel features, which I will now proceed to describe and will then particularly point out in the claims.

25 In the accompanying drawings, Figure 1 is a vertical sectional view of a grain-drill having my improved hitch applied thereto. Fig. 2 is a perspective view of a portion of the frame and the hitch, and Fig. 3 is a detail perspective view of a modification.

30 In the said drawings, 1 indicates the frame of the drill, supported on an axle 2 and wheels 3. Said frame comprises a front cross-bar 4 and a second cross-bar 5, located in the rear of the front cross-bar and having secured to it the rear end of the tongue 6, said tongue  
35 also extending over the front cross-bar 4 and being secured thereto by a bolt 7 or in any other suitable manner. These parts may be of any suitable construction.

40 On the under side of the tongue is secured a casting 8, provided with an aperture to receive the cylindrical end of a hitch-bar 9, which thus serves as a pivotal or swivel bearing in the casting 8. The casting 8 is provided with a transverse recess 10 to give access to the upper end of the pivotal extremity  
45 of the hitch-bar, and said extremity receives a cotter-pin 11 or other suitable retaining device.

50 The hitch-bar 9 is provided with a plurality of apertures 12, any one of which may serve to receive a retaining-pin 13, by means of which there is pivotally connected to the

hitch-bar a clevis or shackle 14, which receives the doubletree.

The lower end of the hitch-bar 9 is provided with a cylindrical extension or projection 15, forming a pivot for the lower end of the hitch-bar, and this projection extends through apertures in the lower front ends of two brace-bars 16 and is provided with a cotter-pin 17 or other suitable retaining device. The brace-bars 16 diverge from the lower end of the hitch-bar in an upward and rearward direction and are secured to the rear cross-bar 5. Instead of pivoting the lower end of the hitch-bar directly in the ends of the brace-bars the connection may be an indirect one, as indicated in Fig. 3, by providing a casting 18, having an aperture 19 to receive the pivot of the hitch-bar, the lower front ends of the brace-bars being secured to said casting, as shown.

By reason of the construction above described it will be seen that the point of connection of the doubletree may be raised or lowered, as desired, in order to accommodate the device to draft-animals of different sizes or to the varying circumstances of the work. The arrangement of the brace-bars is such that in turning corners or under other circumstances where the pull is lateral the strain will be directly in line with one of the bars, while the other bar will be under compression. The swiveling of the hitch-bar serves to reduce the strains thereon in an obvious manner.

Although I have shown and described my improved hitch as applied to a grain-drill, it is obvious that it is applicable to other structures. It will also be understood that various modifications in the details of construction may be made without departing from the principle of my invention.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A hitch for grain-drills and the like, comprising in combination a frame, a vertical swiveling hitch-bar provided with a clevis or shackle vertically adjustable thereon, and brace-rods diverging from the lower end of the hitch-bar upward and rearward and secured at their rear upper ends to the frame, substantially as described.

2. A hitch for grain-drills and the like, comprising a frame and tongue, braces extending forward and downward from the frame, a vertical hitch-bar having a swivel or pivotal connection with the tongue and with the lower forward ends of the brace-bars, and a clevis or shackle for the doubletree vertically adjustable on said hitch-bar, substantially as described.
- 10 3. A hitch for grain-drills and the like, comprising a frame, a tongue secured thereto and having a bearing on its under side, brace-bars secured at their rear ends to the frame and converging downward and forward, a hitch-  
bar pivotally mounted in the bearing of the tongue and in the forward ends of the brace-bars and provided with a plurality of apertures with varying heights, and a clevis or shackle for the doubletree provided with a pin whereby it may be pivotally and adjustably connected with the hitch-bar, substantially as described.
- In testimony whereof I affix my signature in presence of two witnesses.
- CHARLES H. PELTON.
- Witnesses:  
E. O. HAGAN,  
WILL O'LAUGHLIN.