

(No Model.)

J. W. ABBOTT.
PLOW STOCK.

No. 543,761.

Patented July 30, 1895.

Fig: 1.

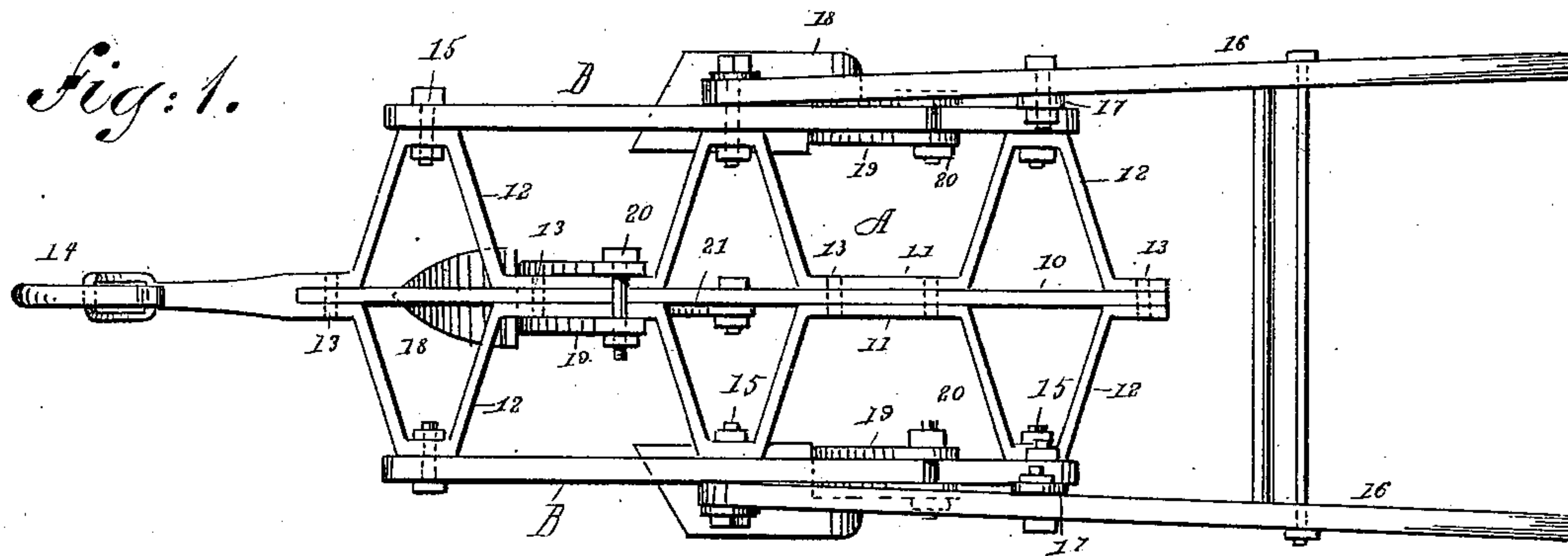


Fig: 2.

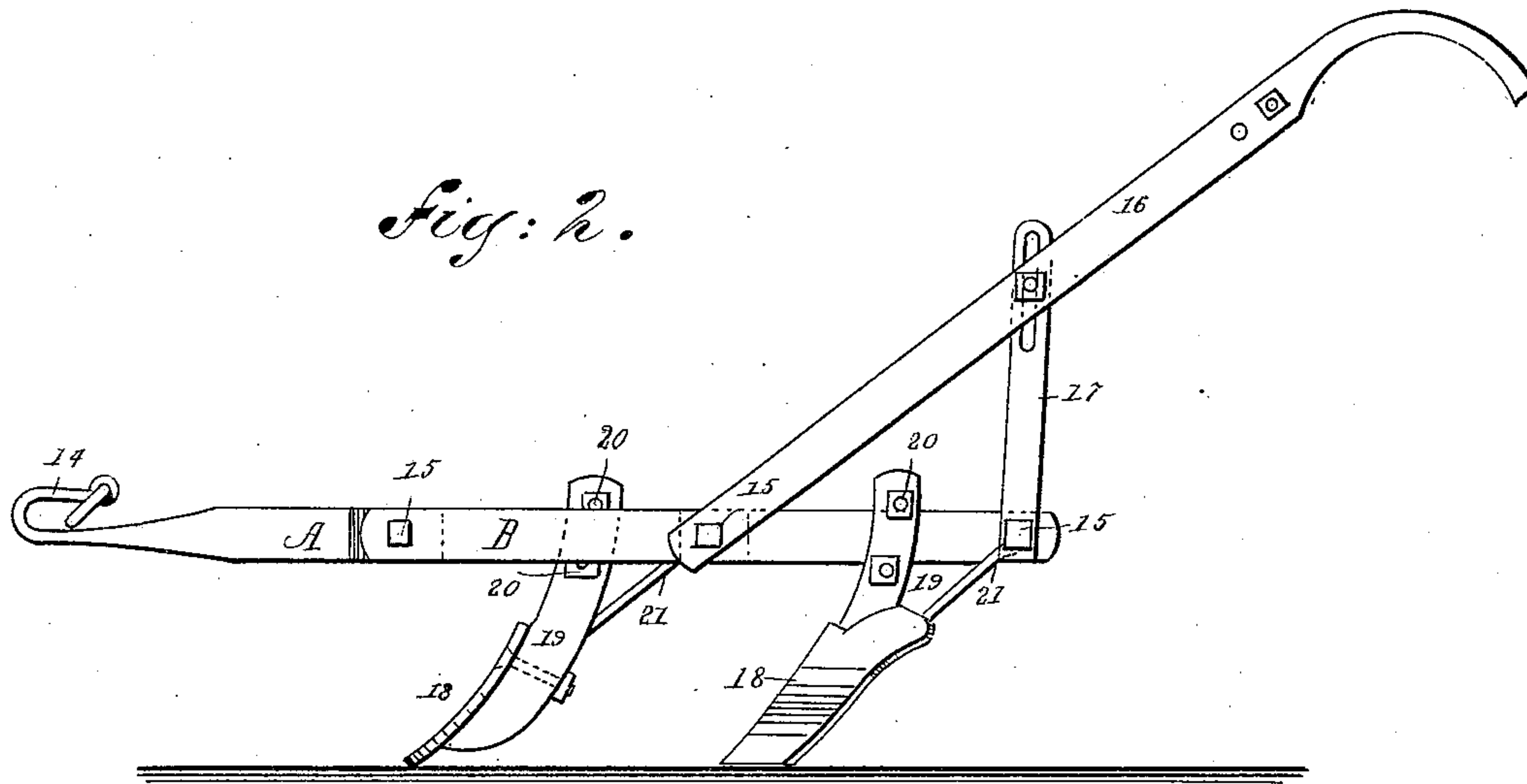
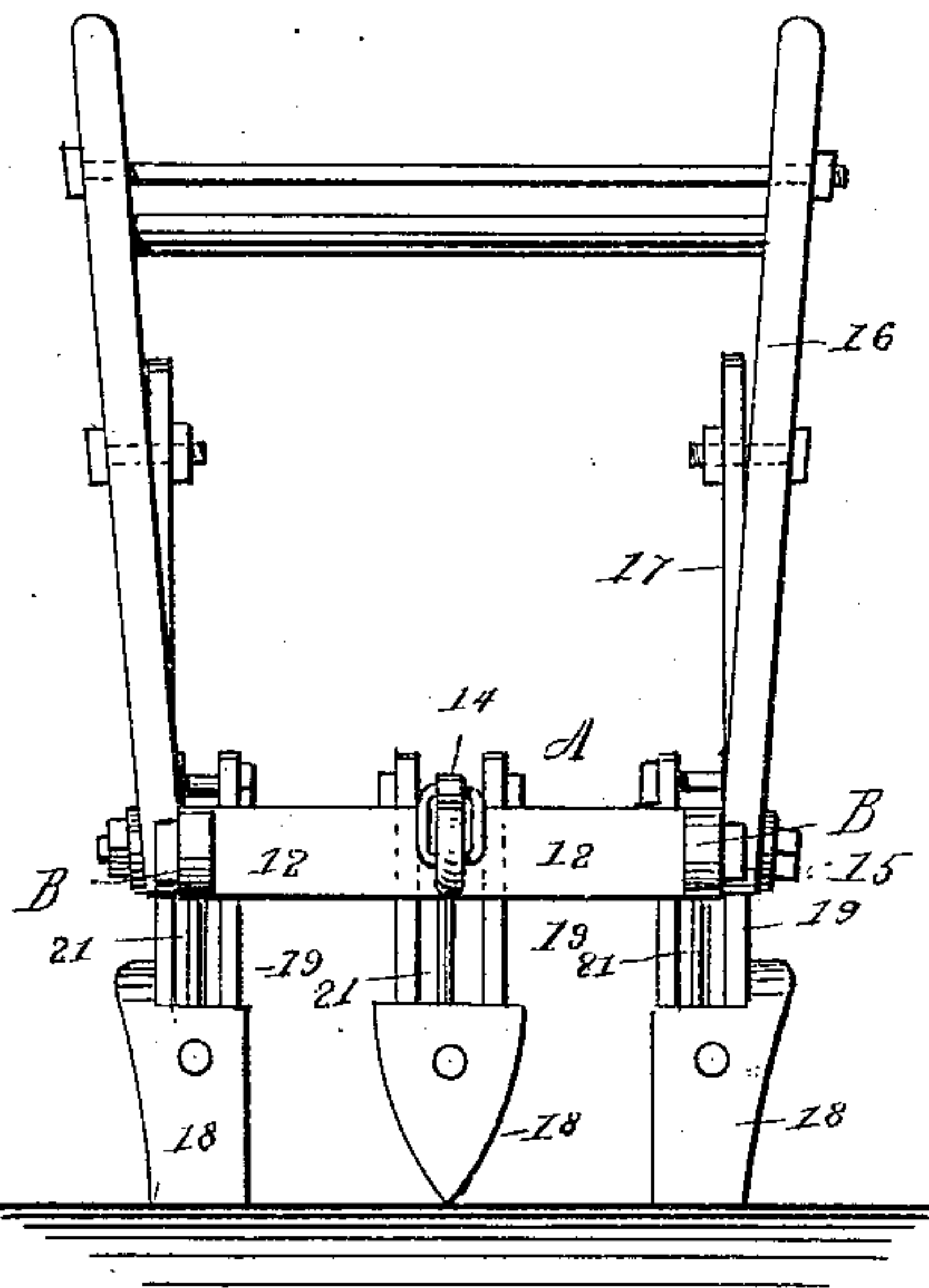


Fig: 3.



WITNESSES:

Chas. W. V. A.
J. H. A. T. A.

INVENTOR

J. W. Abbott
BY

Munn & Co
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOSEPH W. ABBOTT, OF LOCKHART, TEXAS.

PLOW-STOCK.

SPECIFICATION forming part of Letters Patent No. 543,761, dated July 30, 1895.

Application filed October 6, 1894. Serial No. 525,096. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH W. ABBOTT, of Lockhart, in the county of Caldwell and State of Texas, have invented a new and Improved Cultivator-Frame, of which the following is a full, clear, and exact description.

My invention relates to an improvement in cultivator-frames; and it has for its object to provide a cultivator-frame of exceedingly simple, durable, and economic construction, and one which will admit of changes being made in an expeditious and convenient manner to facilitate the grouping of the shares or plows to be carried by the stock.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures and letters of reference indicate corresponding parts in all the views.

Figure 1 is a plan view of the improved cultivator-frame. Fig. 2 is a side elevation thereof, and Fig. 3 is a front elevation.

The cultivator-frame may be said to consist primarily of an inner main section A and outer side sections B. The inner main section is made up of three beams, a central straight beam 10 and two zigzag beams 11, between which the beam 10 is located. The zigzag beams 11 are preferably made with two or more, usually three, lateral substantially A projections, and straight surfaces intervening between the said projections, the straight surfaces of the two beams 11 being made to contact with the central beam 10, and the A projections 12 of the said beams 11 are straight or flat at their outer ends, and the projections of the beams are so arranged that they will be opposite each other, separated by the central beam 10.

The forward straight portions or ends of the beams 11 are welded or otherwise secured together, and their forward extremities are shaped into a hitch or clevis 14, or the clevis may be attached to said beams. It will be observed that the hitch is thus directly connected to the lateral zigzag beams, whereby the draft is applied to the sides of the frame to insure a steady motion thereof. It will be

further observed that the said zigzag beams form a continuous rigid frame, having a recess or socket for the reception of the front end of the central beam 10, while the ends of the frame formed by the zigzag beam clasp the rear end of the central beam between them.

Rivets 13 or their equivalents connect the beams 10 and 11 at the straight surfaces of the latter, as is best shown in Fig. 1, and the outer or side sections B comprise two bars or beams, which through the medium of bolts 15 are attached to the straight outer extremities of the A projections of the zigzag beams 11. Thus it will be observed that plow-shanks of any description may be attached to the straight surfaces of the central portion of the body A of the frame or those portions between the A extensions or projections 12, and that corresponding points on the side sections B may be utilized for a like purpose.

The handles 16 are usually pivotally attached to the frame through the medium of the central bolts 15, and said handles are adjustably supported by links 17, usually secured to the frame by the rear bolts 15, a bolt being passed through the handles and through slots or holes in the links, as shown in Fig. 2.

The plowshares 18 are provided with twin shanks 19, which extend upward at each side of the beam or beams to which they are to be hung or attached, and are held in position by bolts 20, passed through the shanks both above and below their supports, while the plows are held in proper position and at a proper angle through the medium of braces 21, attached to the supports for the plows at the rear of the twin shanks, and likewise either to the latter or to the shares themselves. It is evident that under this construction the handles may be placed either inside or outside of the stock, as may be desired, and that the side sections or beams B may both of them be adjusted backward, being disconnected from the forward projections 12, or both of them may be adjusted forward, or one forward and the other rearward.

It will be understood that the side beams B are detachably connected to the central portion of the frame, so that the front end of each side beam may be secured either to the central or to the forward projection 12 or allowed to project in front of the forward projection,

the rear end of the beam being in that case secured to the central projection 12. It will be observed that in each of these three positions the beam B is secured to the central portion at two points at least, and therefore is rigidly connected thereto. In fact, various adjustments may be made in a cultivator-frame constructed as above described, enabling a tiller of the soil to place or locate the plows in any manner demanded by the work at hand.

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

1. A cultivator frame, comprising a body portion consisting of opposed zigzag beams forming a continuous frame and provided at their forward portions with a recess and a hitch in advance thereof, a central beam whose front end is secured in the said recess, and side beams secured to the outer portions of the zigzag beams, substantially as described.

2. A cultivator frame, comprising a body portion consisting of a central beam and lat-

eral zigzag beams forming a plurality of projections at each side of the central beam, and side beams secured directly to the said projections of the zigzag beams and capable of longitudinal adjustment thereupon by fastening the front or rear ends of the beams to different projections of the said zigzag beams, substantially as described.

3. A cultivator frame, comprising a body portion consisting of a central beam and lateral zigzag beams forming at least three projections at each side of the central beam, side beams secured directly to the said projections and capable of longitudinal adjustment thereupon by shifting each side beam and fastening its central portion to different projections of the zigzag beams, and handles connected to the adjustable side beams, substantially as described.

JOSEPH W. ABBOTT.

Witnesses:

ANNA McDOWELL,
O. Z. ABBOTT.