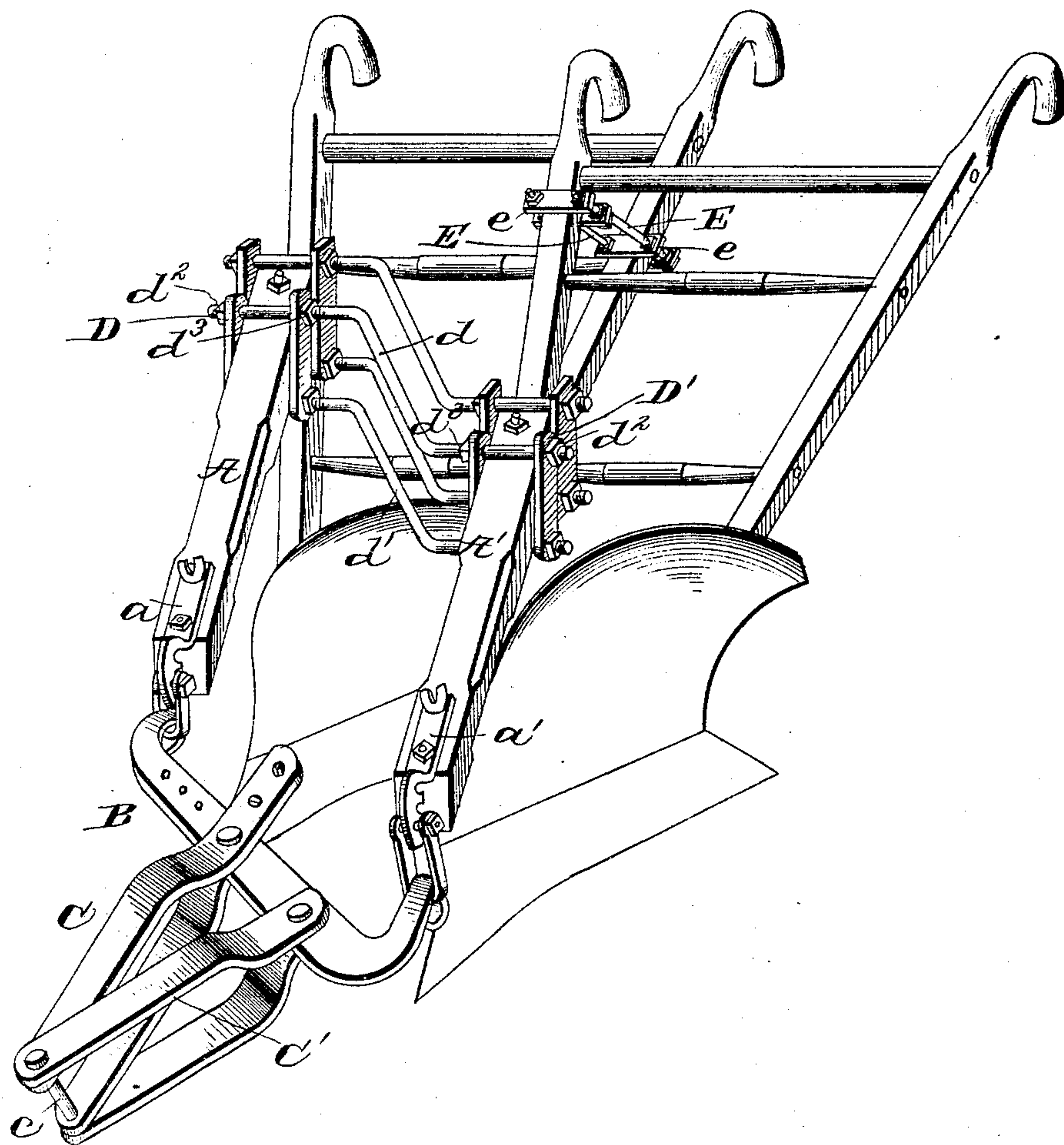


(No Model.)

J. S. WHITESIDE.
PLOW ATTACHMENT.

No. 462,287.

Patented Nov. 3, 1891.



Witnesses

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JOHN S. WHITESIDE, OF JETMORE, KANSAS.

PLOW ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 462,287, dated November 3, 1891.

Application filed April 21, 1891. Serial No. 389,835. (No model.)

To all whom it may concern:

Be it known that I, JOHN S. WHITESIDE, a citizen of the United States, residing at Jetmore, in the county of Hodgeman and State of Kansas, have invented certain new and useful Improvements in Plow Attachments; 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.

My invention relates to gang-plows; and it consists of an attachment for the same.

The object of my invention is to form an attachment whereby two single plows may be joined together, so as to run parallel, and, further, a combined joining-bar and equalizer, and such other objects as may be hereinafter pointed out; and with these objects in view my invention consists in the parts and combination of parts as will be hereinafter more fully pointed out and claimed.

In the drawing the figure is a view of two single plows with my improved attachments.

A and A' represent two single plows of the usual construction having clevises *a a'*.

B is a bar of suitable material, which is provided with hooks or other means on each end whereby said bar is secured to the clevises *a* and *a'*, thereby clamping or rather joining the forward ends of the two plows together. This bar B is also provided with a series of holes suitably arranged for the purposes hereinafter set out.

C and C' are forked bars, which are pivoted together at one end and at their other end pivotally secured to the bar B. As will be seen in the drawing, the forked bar C is considerably longer than the bar C' and is provided with a series of holes. The holes in the forked bar C and bar B allow the forked bar C to be placed in different positions as the drafts of the respective plows demand, thus causing the draft on both plows to be equal.

It will be readily seen that the bar B and forked bars C and C' act as draft eveners or equalizers. The doubletree (not shown) is secured to the bolt *c*.

D and D' are plates secured to the respective plow-beams just in front of where the plow-point is secured. The ends of these plates extend above and below the plow-beam and are each provided with apertures or holes.

d and *d'* are clamping-rods, which have their ends bent at an angle, substantially as shown. These bent ends are provided with screw-threads.

*d*² is a "take-up" nut, and *d*³ is a jam-nut. To join the rear ends of the plows, the bent portions of the rods *d* and *d'* are passed through the respective plates D and D', and the nut *d*² is revolved on said bars, thus drawing or clamping the two plows together. When the plows are thus clamped together, the jam-nut *d*³ is then drawn up in position. I have shown two sets of these clamps; but it is obvious that I may only use one.

E is a clamp of substantially U-shaped form, and it serves to clamp the handles of the plows together firmly.

e are clip-plates used in connection with the clamp E. This clamp E strengthens and clamps the handles together in such a manner that when the operator bears down on the handles of the rear plow such weight is conveyed to the other plow. In other words, he has the same "purchase" on both plows.

The run or "regulation" of one plow can by my attachments be changed without interfering with the other by loosening or unscrewing the nuts on one side of the beam and tightening the nut on the other side.

What I claim, and desire to secure by Letters Patent, is—

The combination, with two plow-beams, of the bar B, the forked bars C C', the oblique rods *d d'*, having their ends bent substantially at right angles from the main body of the rods and provided with screw-threads, and the clamps, all combined as described.

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

JOHN S. WHITESIDE.

Witnesses:

A. H. RASER,
JOHN O'CONNOR.