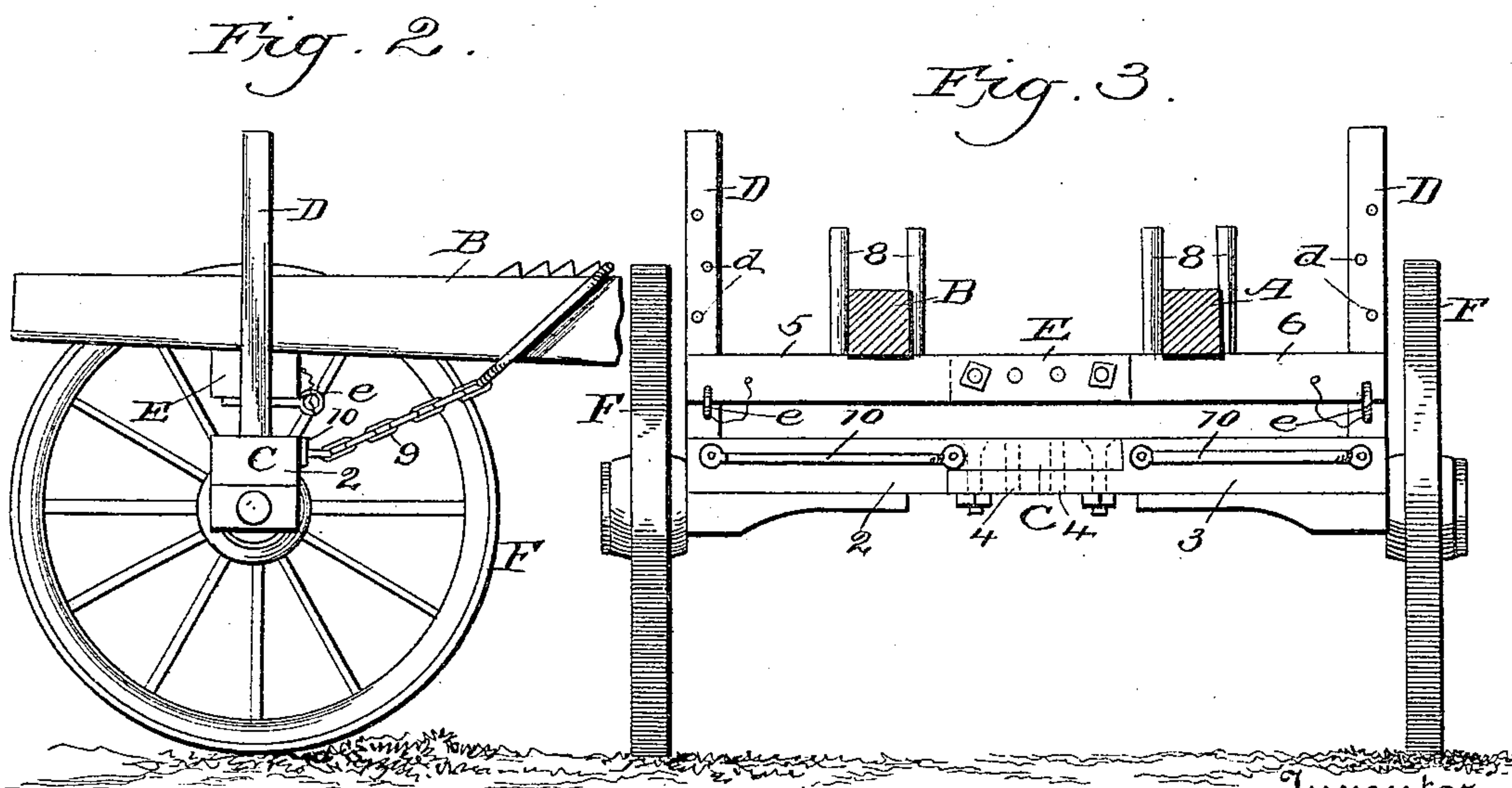
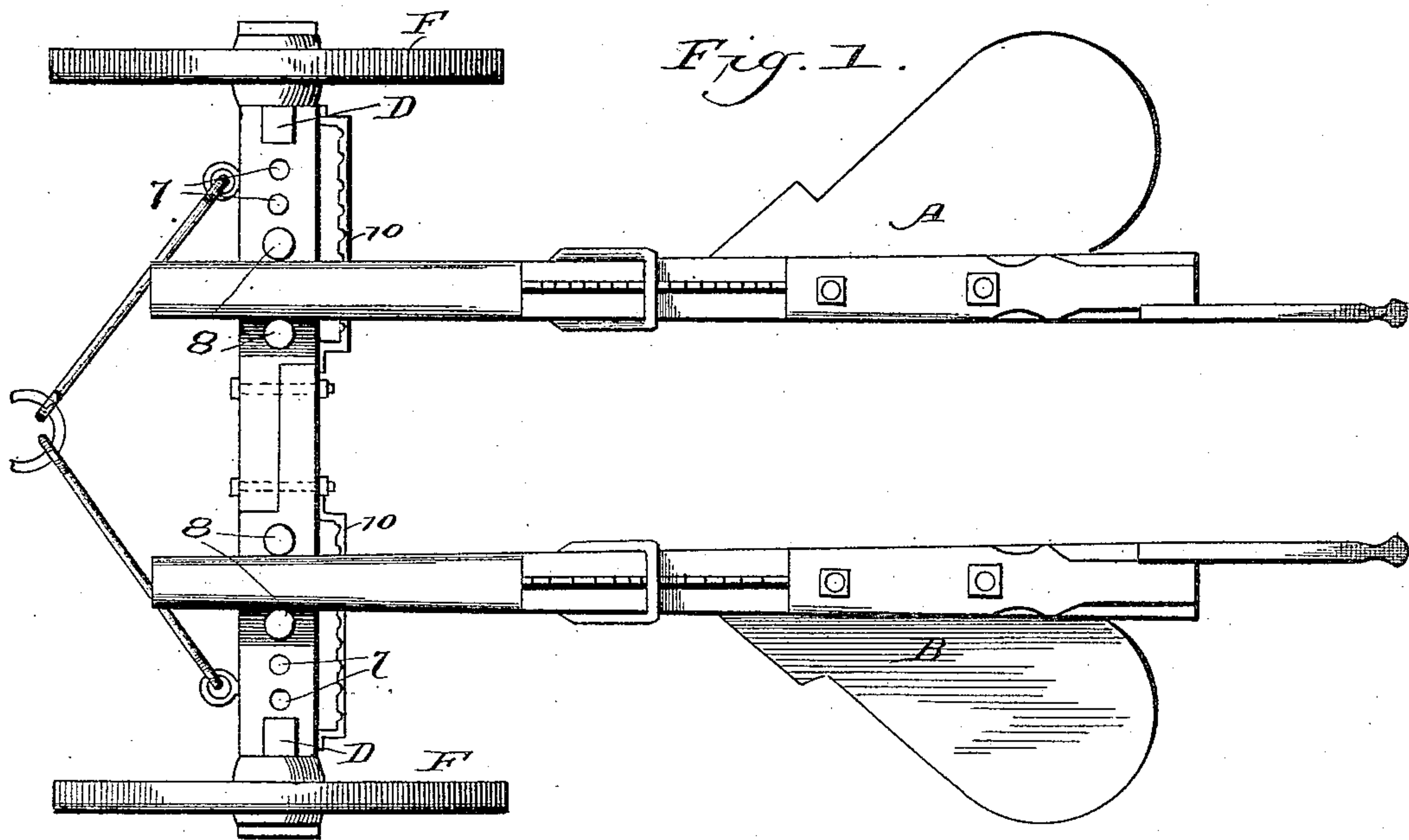


(No Model.)

F. BUNJES.  
WHEEL PLOW.

No. 529,479.

Patented Nov. 20, 1894.



Witnesses  
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Attorney



# UNITED STATES PATENT OFFICE.

FRIEDERICK BUNJES, OF SHINER, TEXAS.

## WHEEL-PLOW.

SPECIFICATION forming part of Letters Patent No. 529,479, dated November 20, 1894.

Application filed April 5, 1894. Serial No. 506,412. (No model.)

*To all whom it may concern:*

Be it known that I, FRIEDERICK BUNJES, a citizen of the United States, and a resident of Shiner, in the county of Lavaca and State of Texas, have invented certain new and useful Improvements in Wheel-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 field plows, and aims to provide a plow especially adapted for the Southern States in bedding the soil, which is generally resorted to in these localities.

The object of the invention is the provision of a plow which is adjustable in all its parts to adapt it for plowing shallow or deep or bedding at different distances apart.

The improvement consists of the novel features, and the peculiar construction and combination of the parts which will hereinafter be more fully described and claimed, and which is shown in the annexed drawings, in which—

Figure 1 is a top plan view of a wheel plow embodying the essential principles of the invention. Fig. 2 is a side elevation of the truck or wheel frame showing the relative disposition of the plow beam, the rear portion of the latter being broken away. Fig. 3 is the rear elevation of the truck or wheel frame.

The plows A and B are of any well known construction and are disposed so as to turn the furrow outward from each other thereby bedding the land. The truck or wheel frame is composed of an adjustable axle C having vertical standards D near each end, and a correspondingly adjustable beam E supported at its ends on the said standards D and adjustable vertically thereon to regulate the pitch and depth of the plowing or furrow. The ground wheels F are mounted on arms or spindles projected outward from the ends of the axle C. The axle is constructed so as to be lengthened or shortened to bring the ground wheels closer together or farther apart as required to suit the nature of the soil bedding.

In the preferable form of construction, the inner ends of the parts 2 and 3 composing the axles are halved and overlapped, and pro-

vided with a series of corresponding openings 4 to receive fastening bolts by means of which the parts 2 and 3 are secured together in the required position. The adjustable beam E is similarly constructed to the axle, being composed of parts 5 and 6 which have their inner ends halved and overlapping and provided with a series of co-incident openings to receive fastening bolts. This beam E forms a support for the front ends of the plow beams A and B, and are notched in their outer ends to receive the vertical standards D. Each of these standards D is provided with a series of openings *d* through which a pin *e* is adapted to be thrust to hold the beam E in the required position. A series of openings 7 near each end of the beam E receive a pair of pins 8 which extend on each side of the plow beams and hold the latter in a fixed relative position. By moving the pins along the beam E the front ends of the plows may be brought closer together or separated as required to adapt the device to the nature of the soil to be treated. Draft chains 9 connect the plows A and B with the axle C. These chains have adjustable connection along the axle as well as along the plow beam. The axle has secured thereto near each end a rod 10 which may be notched on its inner edge to hold the draft chain in the required position, or which may be fluted or crimped forming alternate raised and depressed portions as a means to hold the link in the required position. The rear ends of the draft chains have links through which the plow beams are inserted, the said links engaging with notched plates on the plow beam by means of which the latter are held in the required position. By means of the draft chains having adjustable connection with the plow beams the plow points may be brought closer to the ground wheels or farther therefrom as desired.

The foregoing is the preferred form of construction of the machine, but it is obvious that the means for effecting the various adjustments may be changed and substituted by equivalent means of known construction without departing from the nature of the invention.

Any means for providing an axle or beam



which can be lengthened or shortened will meet the requirements of the invention and are contemplated in the scope thereof.

Having thus described the invention, what is claimed as new is—

5 The herein specified wheel plow comprising an axle composed of two parts which have their inner ends halved and adjustably secured together, and provided at their outer  
10 ends with ground wheels, standards rising vertically from the ends of the axle and having a vertical series of openings, a beam disposed above the axle and having its ends notched to receive the said standards and  
15 composed of two parts which have their inner ends halved and adjustably secured together, each part being provided with a series of openings extending inward a short distance from each end, pins attached to the ends of  
20 the beam and adapted to be passed through corresponding openings in the standards to

support said beam at the desired elevation, pairs of pins removably inserted in the openings provided in the beam, a pair of plow beams having their forward ends resting upon  
25 the vertically adjustable beam and held between the aforesaid pairs of pins and provided with notched bars, notched bars 10 secured to the axle and draft chains having a link at their rear ends to embrace the plow  
30 beams and engage with the notched bars carried thereby, the front ends of the said draft chains being adjustably connected to the notched bars 10, substantially as described, for the purpose specified. 35

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

FRIEDERICK BUNJES.

Witnesses:

SAM F. NAVE,  
E. F. WOLTERS.