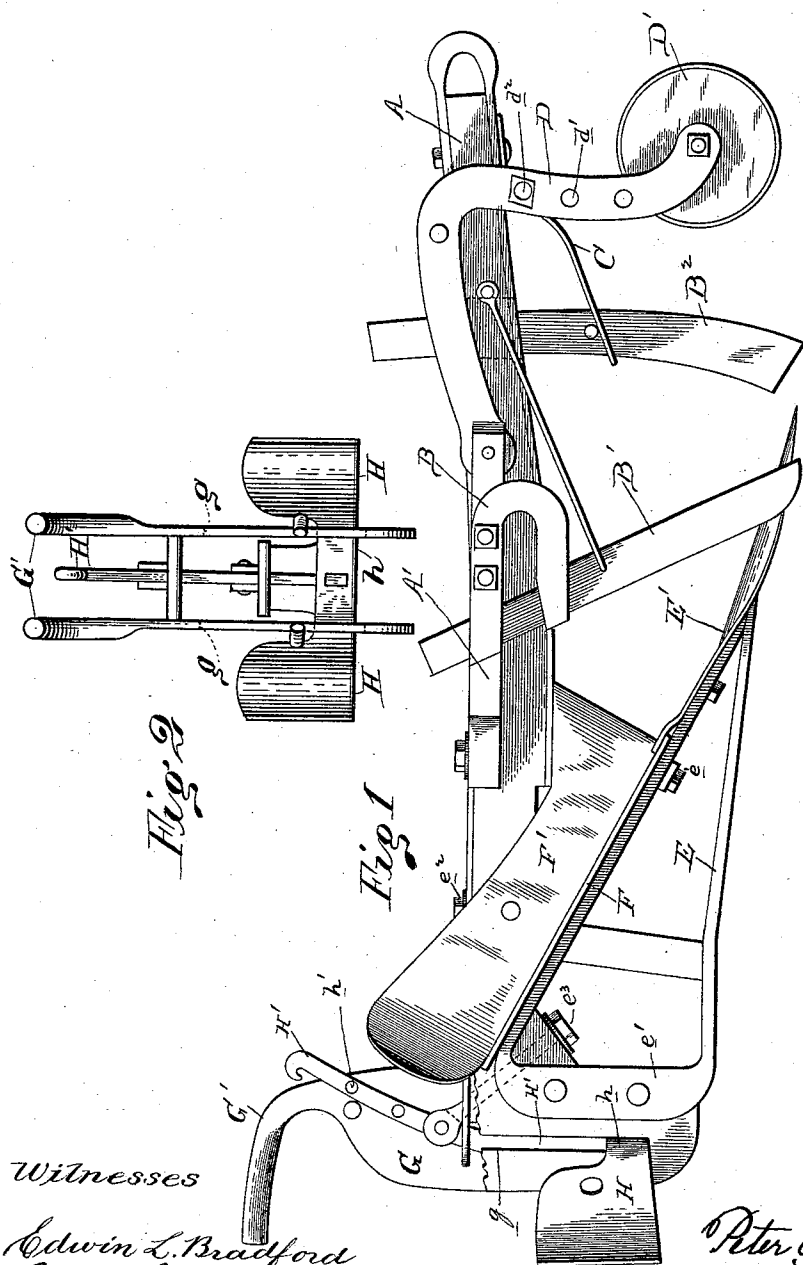


(No Model.)

P. T. MONTGOMERY.
DITCHING PLOW.

No. 487,869.

Patented Dec. 13, 1892.



Witnesses

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UNITED STATES PATENT OFFICE.

PETER THORNTON MONTGOMERY, OF MOUND BAYOU, MISSISSIPPI.

DITCHING-PLOW.

SPECIFICATION forming part of Letters Patent No. 487,869, dated December 13, 1892.

Application filed February 26, 1892. Serial No. 422,916. (No model.)

To all whom it may concern:

Be it known that I, PETER THORNTON MONTGOMERY, a citizen of the United States, residing at Mound Bayou, in the county of Bolivar and State of Mississippi, have invented certain new and useful Improvements in Ditching-Plows; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to an improvement in ditching-plows; and it consists in the construction and arrangement of parts more fully hereinafter described, and definitely pointed out in the claims.

The object of my invention is the provision of an easily-operated and adjustable ditching-plow which will give a clean-cut ditch and at the same time force the dirt back away from the edges thereof. This object I accomplish by the construction illustrated in the accompanying drawings, wherein like letters of reference indicate corresponding parts in the several views, and in which—

Figure 1 is a side elevation of my improvement, the upper part of one of the handles being broken away; and Fig. 2 is an end elevation.

In the drawings, A represents the plow-beam, having plates A' secured thereto on opposite sides of the middle portion thereof and to the outer edges of which are secured U-shaped plates B, having slots formed in their ends in which the downwardly-inclined side colters B' are secured, which are provided with braces connected with the forward end of the beam.

B² is the central dividing-colter slidingly engaging in an opening in the forward end of the beam, (shown in dotted lines,) its lower end being secured to a spring C, secured to the under side of the beam A and extending downwardly at an incline. The purpose of this spring C is to prevent damage to the colter B² by sudden jar in coming in contact with rocks, &c.

D are curved supporting-arms, there being one on each side of the board, pivotally secured in recesses formed between the forward ends of plates A' and beam A, extending forwardly and downwardly and carrying between their lower ends the supporting-wheel D', which is adapted to rest on top of the ground when the plow is in operation. The forward ends of the arms D are provided with a series of apertures d', through which a bolt d² passes for adjustably securing the same to the beam.

E is a wedge-shaped supporting frame or runner, there being one on each side of the rear of the plow, their upper faces being inclined downwardly, carrying at their lower ends the double-pointed shovel E', the front end of which extends to a point in the rear of the colter B², the colters B' being situated on opposite sides thereof.

F is an elevating-plate of the frame E, forming an extension of the shovel E', and on the upper face of which rests the inclined outwardly-curved mold-boards F', meeting at their forward edges, forming a cutting or dividing edge and at which point they are clamped between this shovel and under face of beam A by bolt e, this adjustment being made by placing the bolt through the different apertures.

G G are handle-plates secured to the rear vertical portions e' of the frames E, having vertical slots g therein and preferably formed at their upper ends with handles G' integral therewith.

e² e³ are bolts for securing the elevating plates and frames E to the beam A, the bolt e³ being formed at its upper end with a bifurcation or recess.

H is a spreader-wing formed, preferably, of a single piece of metal extending across the plow and one on each side thereof, having a reduced connecting portion h, which slidingly engages in the slots g. These wings are curved outwardly and are adapted to run along on top of the ground at the sides of the ditch and push the dirt back away from the edges thereof.

H' is an upwardly-extending bar secured to the connecting portion h of the wings H.

This bar engages in recess of the bolt e^3 , in which it is adjustably secured by a bolt passing through apertures h' .

By the above description it will be seen that the depth of the ditch may be regulated by adjusting the supporting-wheel, which necessitates the adjustment of the wings, which is accomplished by means of the bar H' .

I am aware that many minor changes in the construction and arrangement of the parts of my device can be made and substituted for those herein shown and described without in the least departing from the nature and principle of my invention.

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

1. In a ditching-plow, the combination, with the plow, colters, and handle-plates at the rear of the plow having vertical slots therein, of vertically-adjustable spreader-wings having a reduced connecting portion slidingly en-

gaging in said slots and means for securing the wings in an adjusted position, substantially as described.

2. In a ditching-plow, the combination, with the plow, colters, adjustable supporting-wheel at the front of the plow, and handle-plates at the rear end of the plow on opposite sides of the plow-beam, formed with vertical slots therein, of outwardly-curved spreader-wings having a reduced connecting portion at their inner ends slidingly engaging in the vertical slots, an upwardly-extending adjusting-bar secured to the connecting portion, and means for securing the bar in its adjusted position, substantially as described.

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

PETER THORNTON MONTGOMERY.

Witnesses:

MATTHEW GREEN,
JEBULIES PAGE.