

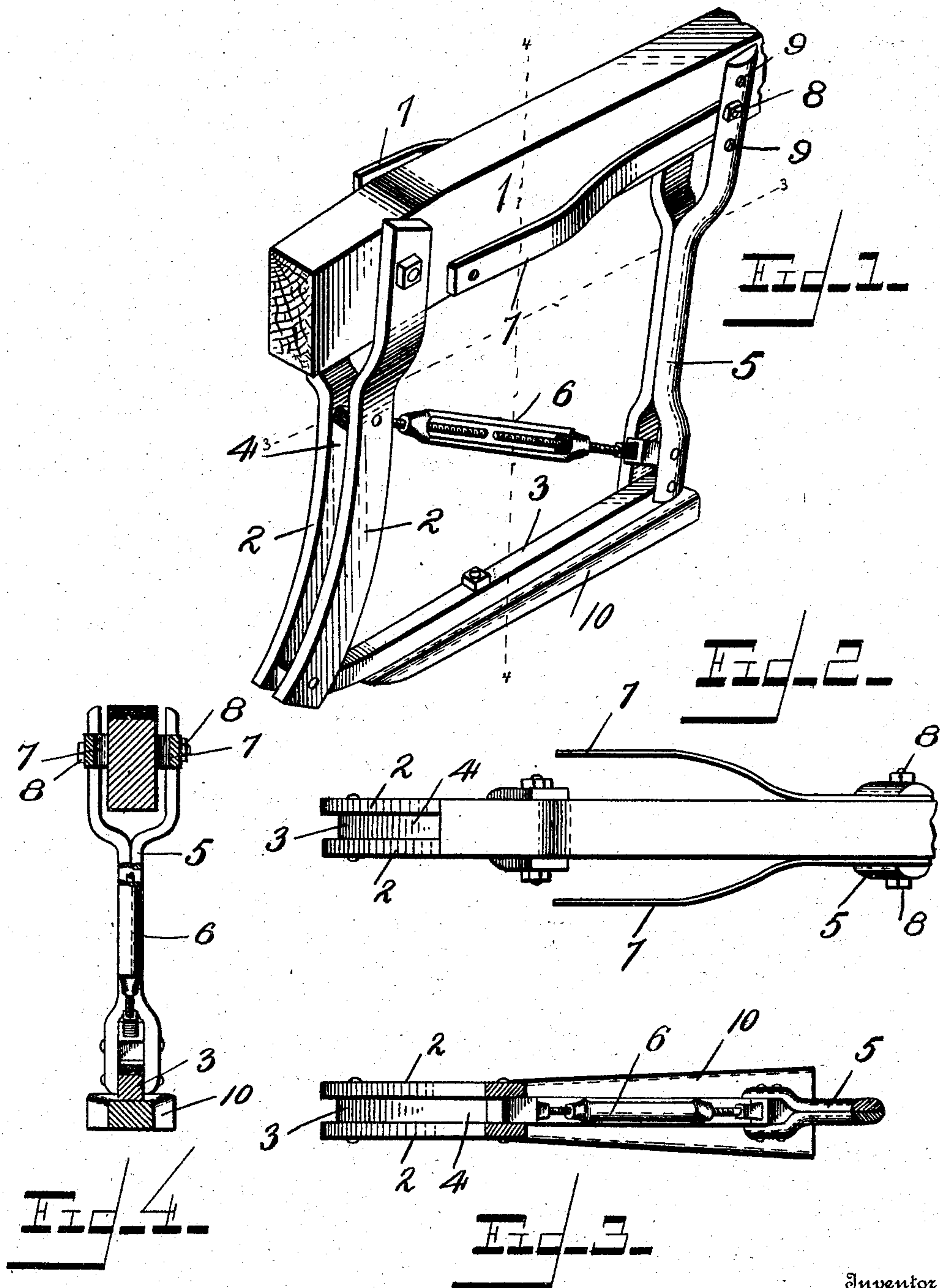
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W. T. HUGGINS.

PLOW.

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# UNITED STATES PATENT OFFICE.

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## PLOW.

SPECIFICATION forming part of Letters Patent No. 782,658, dated February 14, 1905.

Application filed August 26, 1904. Serial No. 222,288.

*To all whom it may concern:*

Be it known that I, WILLIAM THOMAS HUGGINS, a citizen of the United States, residing at Dillon, in the county of Marion and State of South Carolina, have invented new and useful Improvements in Plows, of which the following is a specification.

My invention relates to plows for making furrows in the land; and it has for its object improvements in implements of the kind mentioned whether they be used for making a bed for seed, covering the same, hilling up the earth to crops, laying out lines for planting, or for other purposes.

Though scarcely any other instrument has been or is being more universally used by mankind than a plow, it is just as true that it is still an imperfect implement, and though this is so it is progressing step by step to perfection as it becomes known how difficulties and imperfections may be overcome and how the progress of the cognate arts and sciences may be applied in the betterment of the plow.

My invention consists of steps of improvement in the direction indicated, all as will fully appear from the following description, reference being had to the annexed drawings and to the symbols of reference marked thereon; the same symbols designating the same parts or features wherever they occur.

In the drawings, Figure 1 is a perspective view of my improvements. Fig. 2 is a plan of the same. Fig. 3 is a horizontal sectional view taken in the plane 3 3, Fig. 1. Fig. 4 is a vertical sectional detail taken in the plane 4 4, Fig. 1.

As has been indicated, the drawings are for the sake of clearness confined as closely as may be to an exhibition of the improvements made.

In the drawings, 1 designates the beam, which may be of wood or iron and be of the form shown or of any other suited to the purposes for which it is intended.

2 designates the front upright irons, which are secured at their upper ends to the beam 1 and at their lower ends to the base-bar 3.

The upright irons are made unusually long, since it has been found by experience that

this construction makes it convenient to raise the beam at this point high enough to prevent any choking in grass and thick stubble. Furthermore, the slot or space 4 between the irons is long enough for the application of the longest or the shortest shovel or sweep or any similar device. In the present case the front upright is constructed of two irons which are given the desired curvature and strength and run parallel to each other from the opposite sides of the base-bar to the beam or near the same, where they are flared outwardly, so as to fit on the sides of the beam to which, as said, they are bolted.

5 is the rear upright constructed of two half-round (in cross-section) lengths of iron, with their flat sides bearing upon each other, thus forming a strong round rod. The lower ends of the two parts are flared outwardly, so as to stand astride of the rear end of the base-bar, to which they are bolted, and also astride of the lower end of the turnbuckle 6, to which they are also bolted. At their upper ends the two half-round parts of the rear upright are flared outwardly astride of the beam and the rear ends of the handle-braces 7 7, to which they are bolted by means of a bolt 8, passing through any one of three holes 9 in the upright and through a hole in the beam and braces.

The turnbuckle 6 has its upper end secured by means of a bolt or otherwise, between the two parts of the front upright, and the bar-slide 10 is bolted or otherwise suitably secured to the base-bar 3.

The word "long" applied to the front iron in describing the same I mean to be given special force and significance, since this feature of its construction permits it to perform the functions ascribed to it and allows of its use, as stated.

In use, as stated, the plow may be provided with a suitable shovel or other device, which being supported on the unusually long base-bar makes the plow run perfectly steady and enables it to be easily guided by the handles (not shown) to which the ends of the two outstanding braces are secured in the usual or suitable way.

The three (or it may be more) holes 9 in the upper end of the rear upright and the fasten-



ing-bolt are very important and convenient means in my improvements, since they enable me to readily adjust the plow with respect to the beam so as to run at any desired depth, and  
5 the turnbuckle 6, which extends from the upper forward corner to the lower rear corner of the "diamond" frame, serves to stiffen the latter and to permit of the very finest adjustment of pitch of the frame without the use of  
10 a wrench or any other mechanical means. It is done by the mere application of the hands and, if kept clear, without great strain or effort by the latter.

I do not confine myself strictly to the details of construction, since these may be altered without materially departing from the real substantive invention.  
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I claim—

1. The combination, with the plow-beam,  
20 of a front bar consisting of two long bars extending rearwardly and connected at their top and bottom to the opposite sides of the base-bar and beam; the base-bar broader than and bolted to the latter; the rear upright con-

nected with the rear end of the base-bar and  
25 adjustably secured at its upper end to the beam; and a turnbuckle-bar connected at its forward end to the upper part and at its rearward end to the lower part of the plow-frame for adjusting the several bars of the frame. 30

2. The combination, with the plow-beam, of a front bar consisting of two long bars extending rearwardly and connected at their top and bottom to the opposite sides of the base-bar and beam; the base-bar; the rear upright  
35 connected with the rear end of the base-bar and adjustably secured at its upper end to the beam; and a turnbuckle pivoted at its rear end to the lower end of the rear upright, and likewise connected at its forward end to the  
40 upper end of the front bar, as set forth.

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

WILLIAM T. HUGGINS.

Witnesses:

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W. T. METZ.