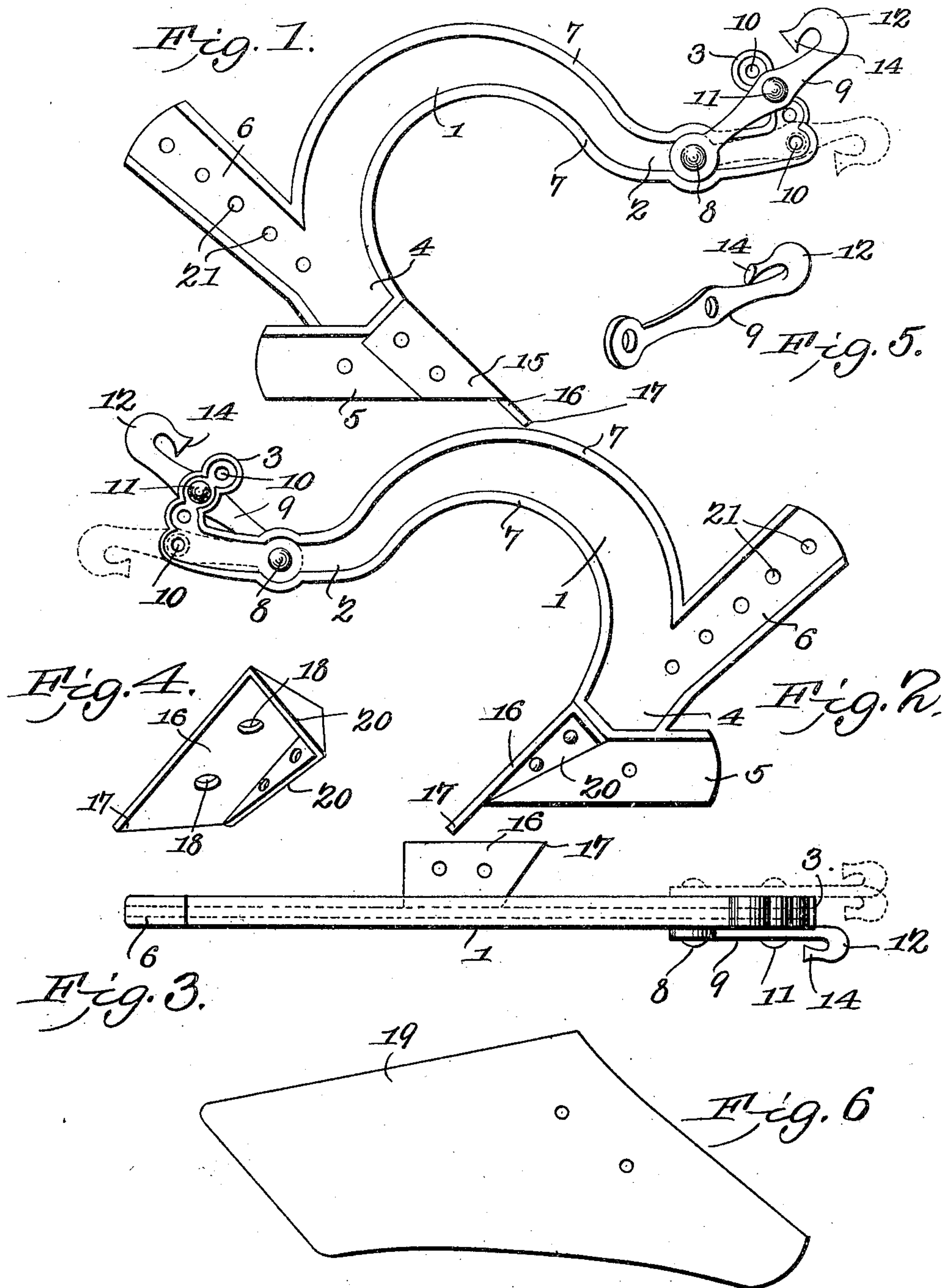


No. 819,997.

PATENTED MAY 8, 1906.

R. T. HUGGINS.  
PLOW BEAM.

APPLICATION FILED JAN. 19, 1906.



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

ROBERT T. HUGGINS, OF VENTERS, SOUTH CAROLINA.

## FLOW-BEAM.

No. 819,997.

Specification of Letters Patent.

Patented May 8, 1906.

Application filed January 19, 1906. Serial No. 296,994.

*To all whom it may concern:*

Be it known that I, ROBERT THOMAS HUGGINS, a citizen of the United States, residing at Venters, in the county of Williamsburg and State of South Carolina, have invented a new and useful Flow-Beam, of which the following is a specification.

This invention relates to plow-beams, and among the objects of the invention are to provide a metallic plow-beam, made, preferably, of cast or malleable iron of an improved construction, whereby it may be successfully used without danger of becoming choked by weeds and similar obstructions.

Another object of the invention is to provide improved means for attaching draft to the beam which shall admit of the point of attachment of the draft being easily and quickly raised and lowered for the purpose of causing the point of the plow to enter more or less deeply into the ground. Another object of the invention is to provide improved means for attaching and supporting the ground-engaging blade or sweep.

Other objects are to improve and simplify the construction and operation of this class of devices.

With these and other ends in view, which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations, and modifications within the scope of the invention may be made when desired.

In the drawings, Figure 1 is a side elevation of a plow-stock embodying the invention. Fig. 2 is a side view taken from the opposite side. Fig. 3 is a top plan view. Fig. 4 is a perspective detail view of the supporting-plate detached. Fig. 5 is a perspective detail view of the clevis-hook detached. Fig. 6 is a detail plan view of a blade adapted to be used in connection with the improved plow-stock.

Corresponding parts in the several figures are indicated throughout by similar characters of reference.

The body 1 of the improved beam is of approximately semicircular curvature, it being

curved or humped upwardly to raise it well from the ground and to present a smooth curved under surface which will pass readily over weeds and other obstructions and prevent the accumulation of trash beneath the beam. From the curved body portion 1 a straight arm 2 extends forwardly, said arm terminating in an upturned bracket 3. The rear part of the curved body portion of the beam extends downwardly and forwardly to form the standard 4 and the foot 5, and said portion has an upwardly and a rearwardly inclined bracket member 6. Strengthening-flanges 7 are formed upon the portions of the beam or casting designated 1, 2, 3, 4, and 6. The arm 2 is provided with an aperture for the reception of a bolt 8, upon which is pivoted a clevis-hook 9 of peculiar construction, which will be presently more fully described. The bracket 3 has a plurality of apertures 10, disposed in the arc of a circle concentric with the pivotal bolt 8, said apertures being for the reception of a bolt 11, which also passes through the clevis-hook and which serves to secure the latter in any of the various positions to which it may be adjusted.

The clevis-hook consists of a stout shank or body having apertures for the passage of the bolts 8 and 11 and provided at its front end with the hook 12, which is twisted laterally to one side of the shank. The body of the hook is made of considerable thickness, so that it will be able to resist strain and wear to which it will be subjected, and the extremity of the hook is provided with an enlarged head 14, which is spaced from the shank merely sufficient to enable a link or lap-ring to be inserted for the purpose of connecting a whiffletree with the hook. The latter is capable of being reversed or inverted, as indicated in dotted lines in Fig. 1 of the drawings, and it may be secured upon either side of the beam. The laterally-twisted hook-head may thus be transferred from one side of the beam to the other, and the draft may thus be laid to one side of the beam, thus enabling the draft-animal to walk between the rows of growing plants either at the right or the left side of the beam when the device is used for cultivating purposes. The hook member may also be turned so as to place the hook-head directly in front of the beam, thus enabling the draft to be exerted in a straight forward direction. Upon one side of that portion of the web of the beam which constitutes the foot 5 there is secured a wear-plate 15. Upon the other



side of said foot there is secured a flanged plate or casting 16, having a forwardly-extending point 17 and provided with apertures 18 for the passage of bolts or similar fastening means by means of which a sweep or moldboard, such as 19, may be secured thereon. The flanges 20 of the plate or casting 16 are made tapering or beveled, so as to offer no obstruction to the progress of the plow.

10 The web of the inclined bracket member 6 is provided with a plurality of apertures 21 for the reception of fastening means, whereby handles of ordinary construction may be secured adjustably upon the sides of said bracket member.

The operation and advantages of this invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. The improved beam is simple in construction, and while it may be produced at a small expense it is practically indestructible, and it is capable of being used in connection with blades, sweeps, and implements of various kinds for the purpose of tilling and cultivating the soil.

25 Having thus described the invention, what is claimed is—

1. A metallic plow-beam comprising an approximately semicircular body having a forwardly-extending arm provided with an upturned terminal bracket, a downwardly-extending standard and an upwardly and rearwardly extending bracket member; said plow-beam and related parts being provided with reinforcing-flanges and with a downward extension of the web constituting a foot; in combination with a wear-plate secured upon one side of the foot and a flanged plate secured upon the opposite side of the foot.

2. A metallic plow-beam provided with reinforcing-flanges and having a downward extension of the web constituting a foot; in combination with a plate or supporting member having beveled or inclined flanges secured upon one side of the foot, and a wear-plate secured upon the opposite side of the foot.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

ROBERT T. HUGGINS.

Witnesses:

W. J. T. HUGGINS,  
H. A. SMITH.