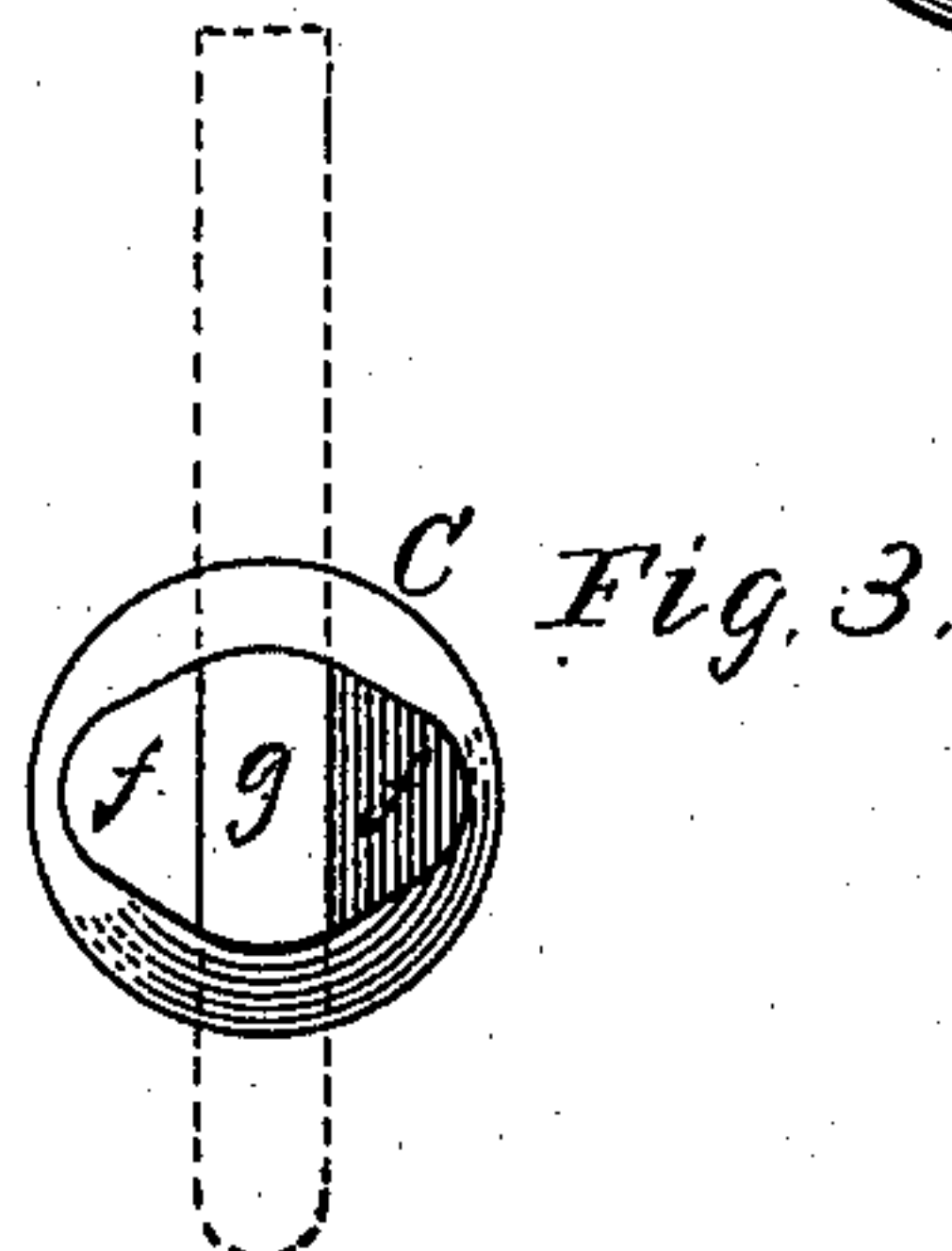
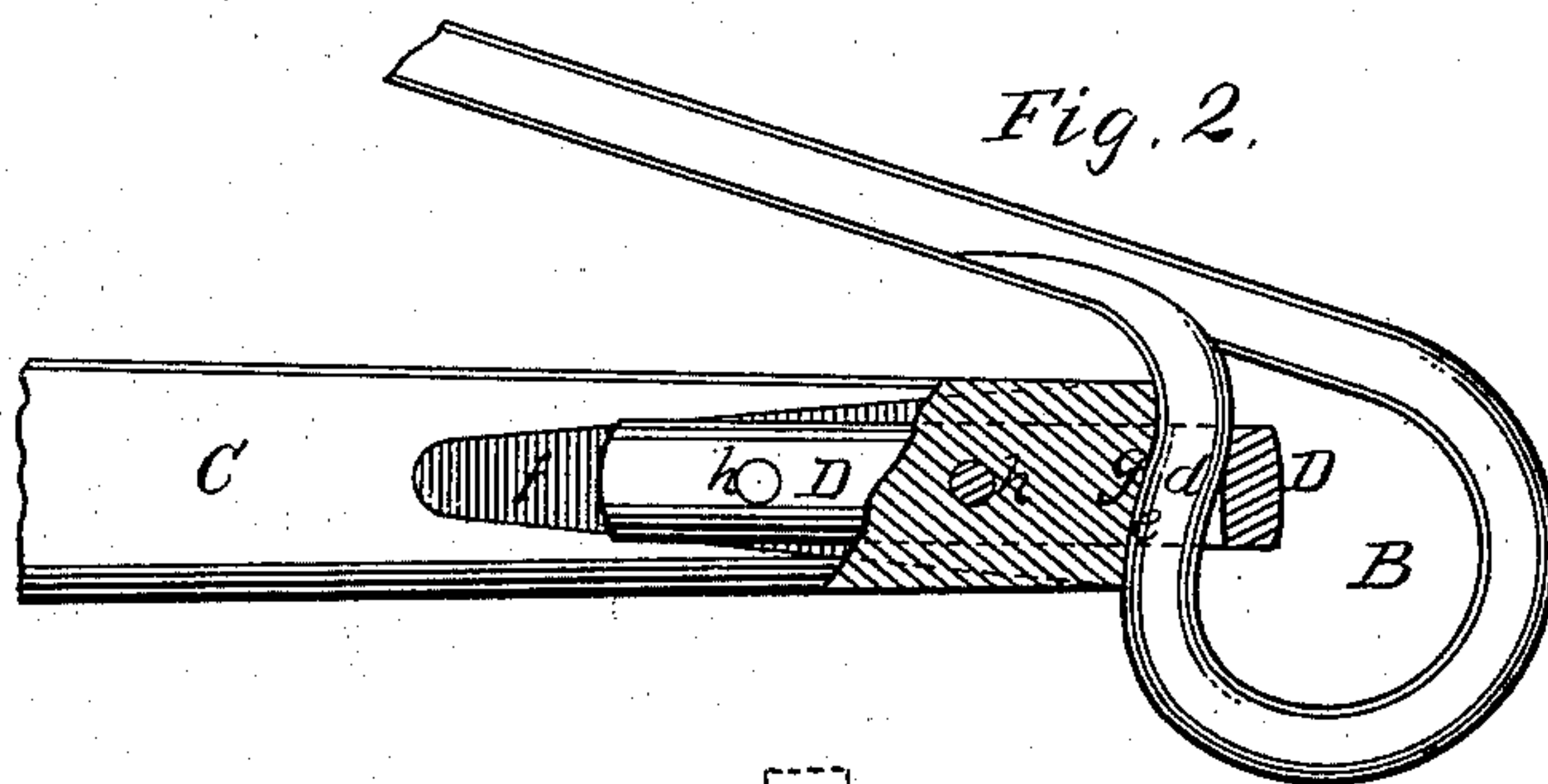
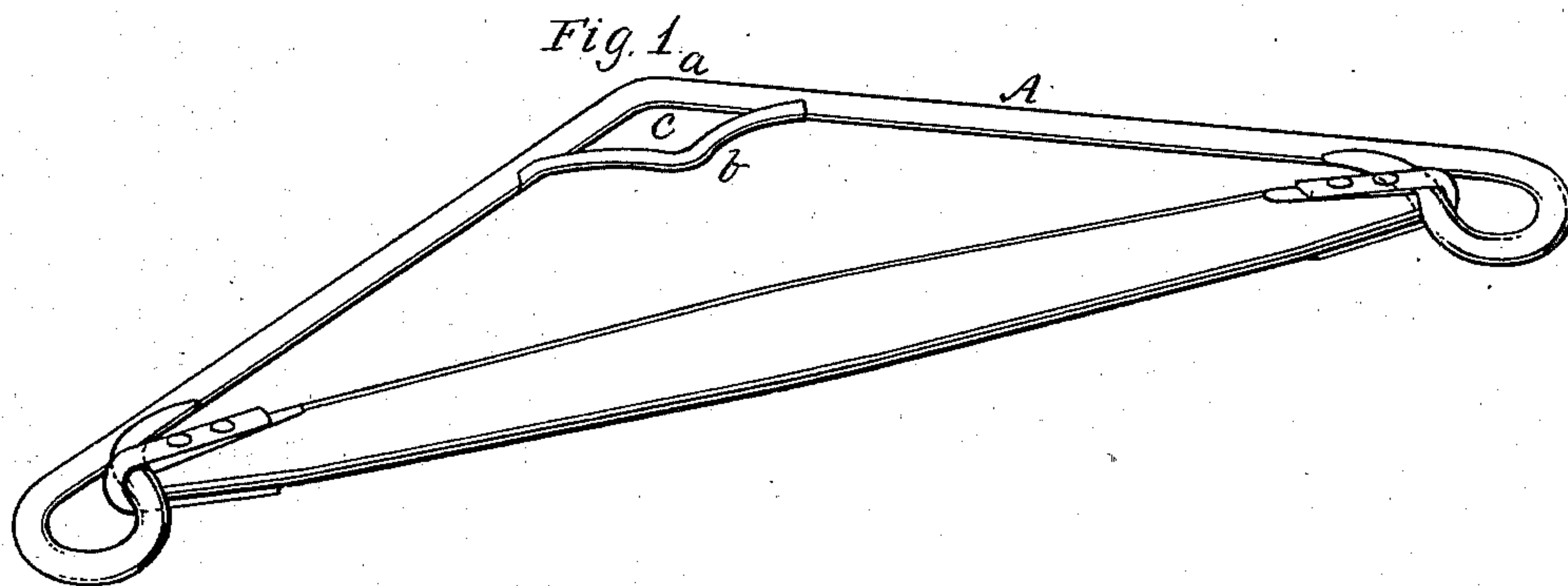


(No Model.)

R. W. WHITEHURST.
Whiffletree for Plows.

No. 238,190.

Patented Feb. 22, 1881.



WITNESSES

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UNITED STATES PATENT OFFICE.

ROBERT W. WHITEHURST, OF NORFOLK, VIRGINIA.

WHIFFLETREE FOR PLOWS.

SPECIFICATION forming part of Letters Patent No. 238,190, dated February 22, 1881.

Application filed August 14, 1880. (No model.)

To all whom it may concern:

Be it known that I, ROBERT W. WHITEHURST, of Norfolk, in the county of Norfolk and State of Virginia, have invented a new and valuable Improvement in Whiffletrees for Plows; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a perspective view of this invention. Fig. 2 is a partial section, taken near one end, to show the joint between the brace and loop. Fig. 3 is an end view of the brace-tree.

This invention has relation to plow-whiffletrees; and it consists in the construction and novel arrangement of an angularly-bent iron rod having its ends welded in loop form and bent forward, a central loop formed within the angle by welding thereon a strip of iron, a brace-tree having its ends abutting against the inner concavity of the margin of the end loops, and the securing-straps passing through said end loops and riveted to the ends of the tree-brace, all as hereinafter shown and described.

In the accompanying drawings, the letter A designates a round iron rod, bent at an obtuse angle at its middle portion, *a*, and having a bent strip, *b*, welded on the inside, at each side of the angle, to form a long eye, *c*, as shown in the drawings. Each end of the iron rod is bent forward and carried around inward in such a manner as to run at right angles to the direction of the rod in the inner portion, *d*, of the loop B, forming an angular or concave bearing, *e*, at each end of the rod on the inner margins of the loop-portions, these bearings facing each other, as shown. The end loops, B, which are thus formed, extend forward from the ends of the iron rod, past the ends of the wooden brace-tree C, which is made straight

and extends between the loops B from one bearing, *e*, to the other. The ends of the brace C are shaved or made flat on each side at *f*, and are at their ends of about the thickness of the iron rod, but of full width, and their ends are made convex or beveled, as shown at *g*, to fit into the concave bearings *e* on the inner margins of the loops. The tree is secured in its engagement with these concave bearings by means of straps D, of flat or half-round iron, which are passed through the loops B and bent over their inside portions *d* upon the flat sides of each end of the tree, and secured thereto by means of rivets *h*. In this manner the ends of the brace are secured firmly in place and prevented from moving from their bearings. The wooden brace prevents the iron from being drawn out of shape by the strain of the draft, which is between the loops B, to which the tug-chains are attached, and the central clevis-eye, *c*. The draft-strain causes the concave bearings *e* to press more forcibly against the ends of the tree-brace, holding it firmly in place with the aid of the straps D.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

The plow-whiffletree consisting of the iron rod A, centrally and angularly bent, and provided with the central strip, *b*, forming the clevis-eye *c*, the forwardly-extending loop ends B, having the opposite concave bearings, *e*, on their inner sides, the brace-tree C, bearing by its ends in said bearings, and the securing-straps D, passed through the end loops and riveted to the brace-tree, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ROBERT W. WHITEHURST.

Witnesses:

MCDONALD L. WRENN,
FRANK T. SIMMONS.