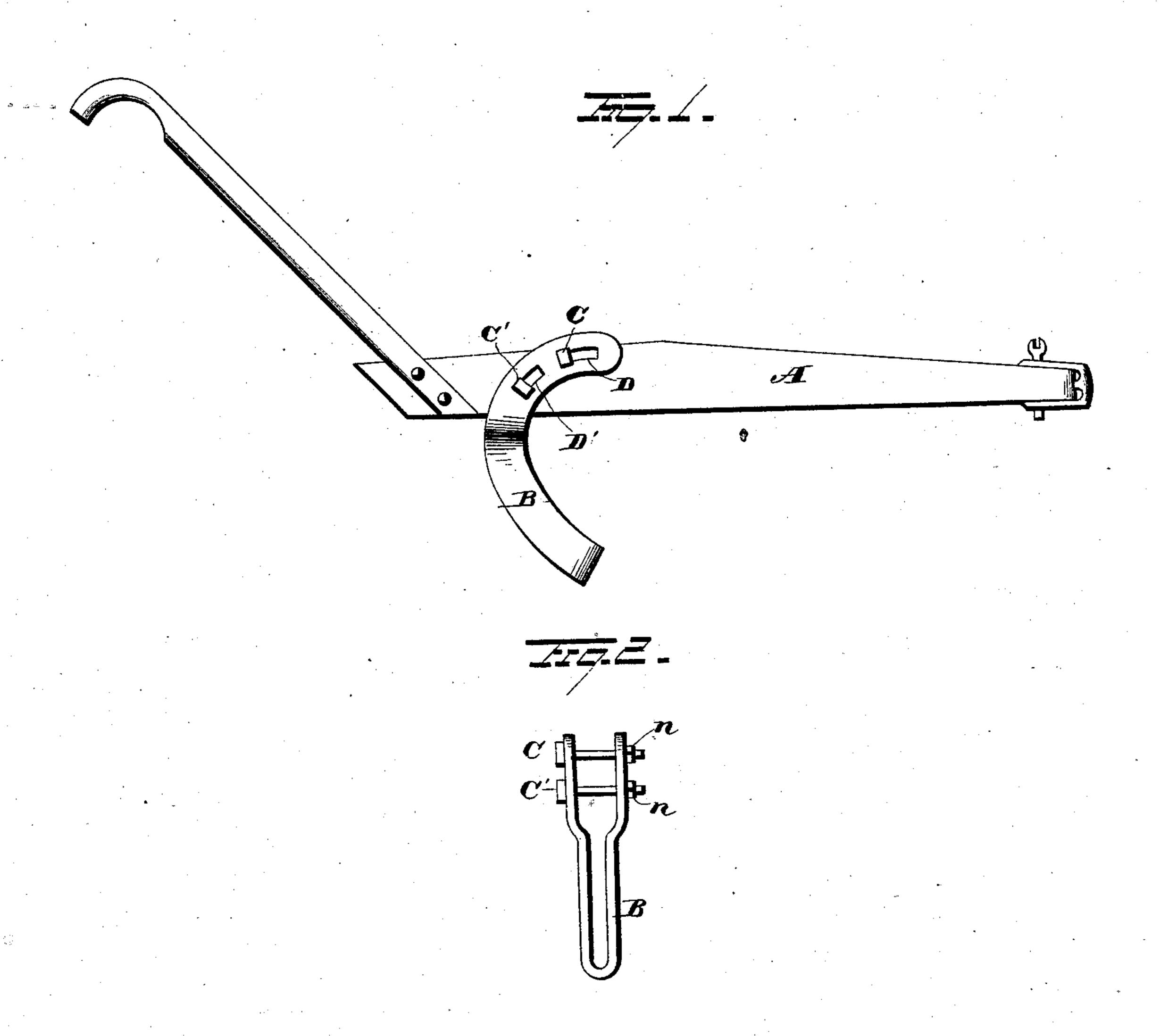
(No Model.)

W. W. SPEER.

PLOW.

No. 290,714.

Patented Dec. 25, 1883.



S. G. Nottingham Geo. J. Downing. Www W. Skeen.

By Suggest & Suggest & Attorney

United States Patent Office.

WILLIAM W. SPEER, OF PITTSBURG, PENNSYLVANIA.

PLOW.

SPECIFICATION forming part of Letters Patent No. 290,714, dated December 25, 1883. Application filed November 7, 1883. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM W. SPEER, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain 5 new and useful Improvements in 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.

10 My invention relates to an improvement in plows, the object of the same being to provide a plow stock or standard which can be adjusted to the beam in such a manner as to give the point any required angle in a vertical 15 plane, a further object being to provide a plowstock which shall be simple in construction, easily adjusted, strong, light, cheap, and durable.

With these ends in view my invention con-20 sists in certain features of construction and combinations of parts, as will be fully described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in side elevation of the stock attached 25 to the beam, and Fig. 2 is a view in front elevation of the stock.

A represents a plow-beam, made of any suitable material and provided with any desired clevis and handle. A is further pro-30 vided with two holes adapted to receive the bolts C C', these holes being situated in a line drawn obliquely to the longitudinal center line of the beam, both said lines taken in the same vertical plane.

35 B is the plow-stock. It consists of a single piece of metal, U-shaped in front elevation, and arc-shaped in side elevation. B is bent at its foot into any shape required for receiving the point, and is provided with any suit-40 able means for attaching the point securely to itself. The two upwardly-extending curved branches of B run parallel or slightly diverging or parallel until near the under side of the beam, and then suddenly diverging suffi-45 ciently to straddle it. The circular arms of B are provided with the corresponding circular slots, DD', adapted to receive the bolts CC', by means of which it is secured to the beam. The bolts C C' are provided with heads at one 50 end and threaded at the other to receive the nuts nn. The slots D D' are so situated with l

reference to the bolt-holes in the beam that when the bolts are in position they will occupy the same positions, respectively, in the two slots. Since these slots lie in an arc, the 55 point of the plow may be raised and lowered with respect to the beam with the greatest precision, and thereby regulating the depth of cut with the same precision. It will be seen, moreover, that the pressure will be upward 60 upon the lower bolt, C', and downward on the upper bolt, C; hence the stock B will be held firmly in position without any unusual strain upon the nuts nn. It is evident, furthermore, that the shape of the stock B will add greatly 65 to its strength, the two branches being a sin-

gle piece of metal, and the curved shape tending to distribute the strain.

I am aware that plows have been made having a curved stock provided with a series of 70 holes, and with a curved stock having a single long slot and one bolt, requiring, in this latter case, further bracing from either the front or rear; but the advantages of my invention over either of these are very marked. For exam- 75 ple, the series of holes allow an adjustment only at those intervals between the holes and require the bolts to be entirely withdrawn from one branch and beam for each adjustment, while my invention admits of every pos-80 sible position of the point in the arc of adjustment, and requires only a slight loosening of the nuts. Again, where the single long slot is used, a further bracing mechanism is required, while in my invention the bracing is complete 85 in a single piece.

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

1. In a plow, the combination, with the beam, 90 of a U-shaped stock provided with curved slotted branches and devices for securing said branches to the beam, whereby the depth of cut may be regulated, substantially as set forth.

2. In a plow, the combination, with the beam, 95 of a stock provided with two curved slotted branches, each branch being provided with two elongated slots, and bolts for securing said branches adjustably to the beam, whereby the depth of cut may be regulated, substan- 100 tially as set forth.

3. In a plow, the combination, with the beam,

of a stock provided with two curved branches adapted to embrace the sides of the beam, each branch being provided with two corresponding curved slots, and bolts adapted to pass through said slots and said beam, for adjustably securing the stock to the beam, substantially as set forth.

4. The combination, with the beam, of a curved stock consisting of a single piece of metal bent to form two branches, each branch to being provided at its upper end with elongated curved slots, and bolts extending through

said slots, said bolts passing through the beam in different vertical and horizontal planes, substantially as set forth.

In testimony whereof I have signed this 15 specification in the presence of two subscribing witnesses.

WILLIAM W. SPEER.

Witnesses:

THOMAS D. GRAHAM, LAWRENCE BETANCOURT.