

(No Model.)

C. R. BARFIELD.
ADJUSTABLE PLOW BAR.

No. 376,226.

Patented Jan. 10, 1888.

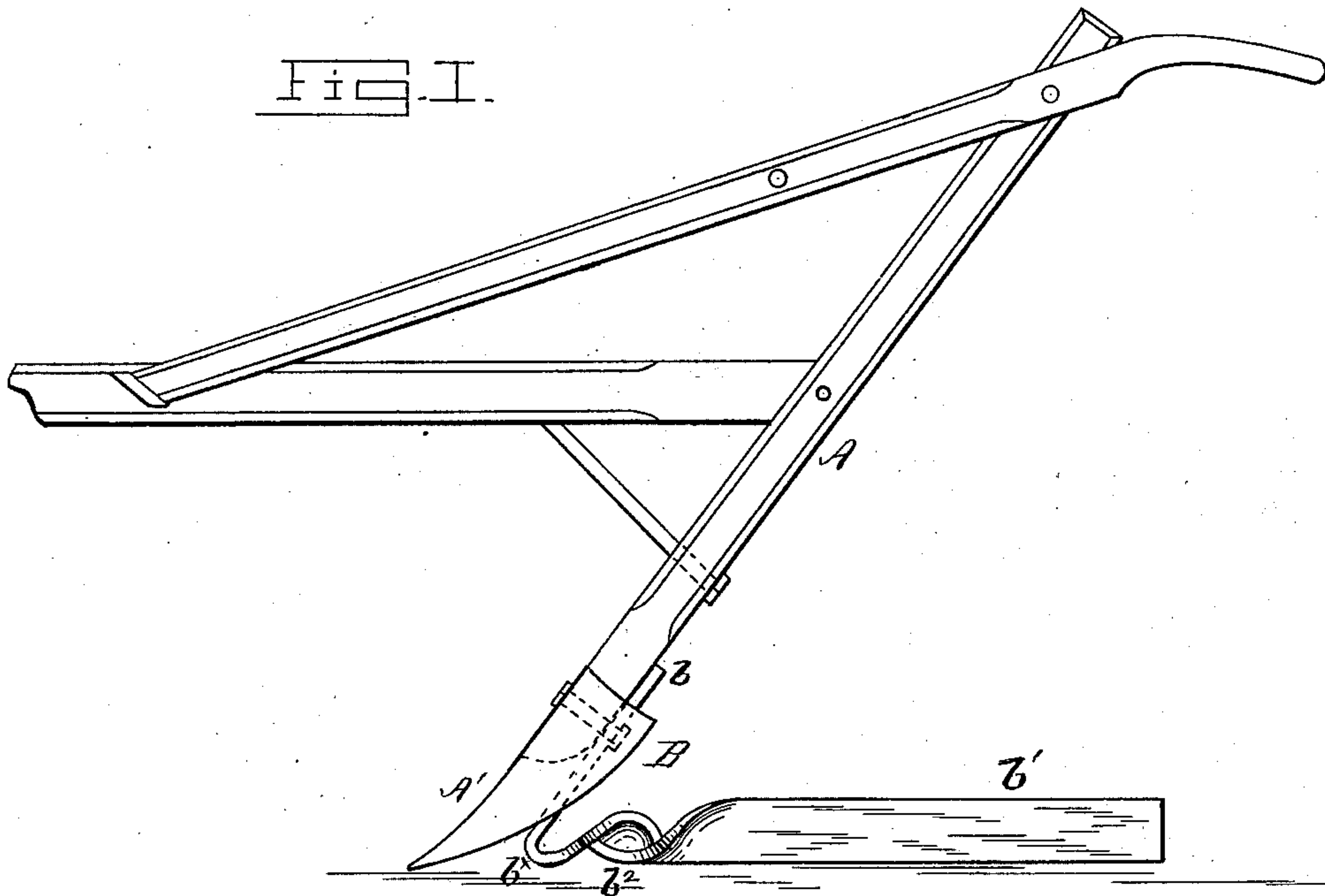


Fig. II.

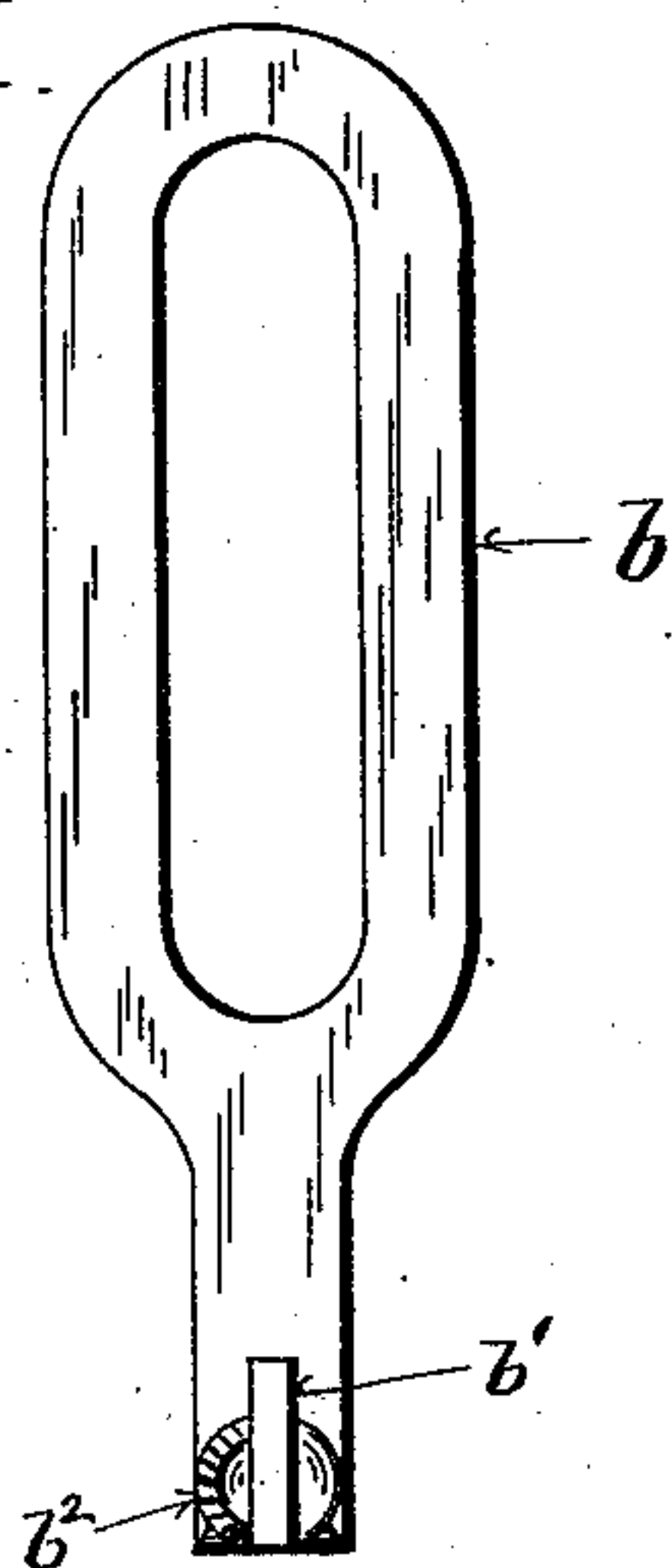
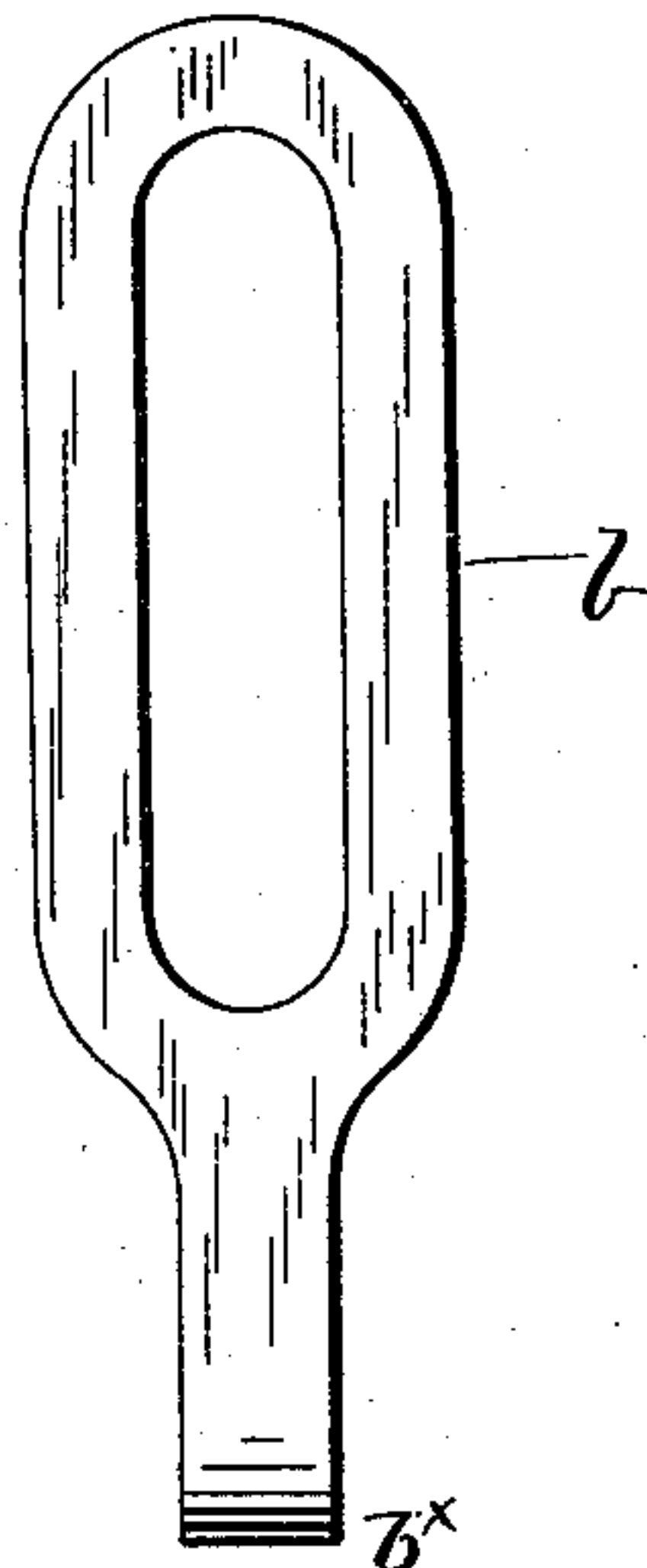


Fig. III.



Witnesses
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UNITED STATES PATENT OFFICE.

COLUMBUS RICHARD BARFIELD, OF VALDOSTA, GEORGIA.

ADJUSTABLE PLOW-BAR.

SPECIFICATION forming part of Letters Patent No. 376,226, dated January 10, 1888.

Application filed August 25, 1887. Serial No. 247,887. (No model.)

To all whom it may concern:

Be it known that I, COLUMBUS RICHARD BARFIELD, a citizen of the United States, residing at Valdosta, in the county of Lowndes and State of Georgia, have invented certain new and useful Improvements in Adjustable Plow-Bars; 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 and figures of reference marked thereon, which form a part of this specification.

My invention relates to adjustable plow bars or rudders, and has for its object the provision of such a device having the construction hereinafter described, and pointed out in the claim.

The accompanying drawings illustrate what I consider the best means for carrying my invention into practice.

Figure I is a side elevation of a plow having my improved bar attached. Fig. II is a front elevation of the bar detached. Fig. III is an end view of the bar, taken from the rear. Fig. IV is a front view of the same.

Similar letters of reference indicate corresponding parts in all the figures where they occur.

A is the plow stock or standard.

A' is the shovel or plow proper, and *a* is the bolt passed through the shovel and stock in the ordinary way. It will be understood that any form of plow may be employed, and that my improved bar is equally adapted for use upon any form of plow.

B is the bar or rudder, whose construction forms the novelty of my invention. It consists of an upright portion, *b*, and a horizontal portion, *b'*, united by a rounded bend, *b^x*. A slot is formed in the upright portion *b* by simply splitting and swaging the same to properly open it. Through this slot the bolt *a* projects, and a nut, *a'*, threaded upon the bolt *a*, serves

to bind and hold the bar at any point of adjustment of the slot upon the bolt. The rounded bend *b^x* is followed in the horizontal portion *b'* of the bar by a twist, *b²*, which causes the horizontal portion *b'* to lie edgewise upon the ground.

The rounded end or bend prevents the bar from catching under roots or obstructions of any sort, and thereby aids the plow in its forward progress, when a pointed or angular bar would cause it to be continually catching and obstructing the work of the plow.

At the bend the metal of which the bar is formed is made softer by proper tempering than at any other point, so that the degree of angularity at which the two parts *b* and *b'* stand may be varied as desired by simply bending the bar or rudder at this point more or less. The twist in the metal in the forward portion of the horizontal bar aids in this result, as it makes the bend more yielding in its character. This capacity for bending insures the possibility of always keeping the lower edge of the horizontal portion of the bar on a true level and line with the surface of the ground, so that the said horizontal portion *b'* shall rest in the ground from heel to point under all conditions. This adjustment can be easily and quickly made without removing the bar or rudder from the plow.

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

A bar or rudder for plows, consisting of an upright portion, *b*, and a horizontal portion, *b'*, united by a bend, and a twist back of the bend, said bend being of softer temper than the remainder of the bar, substantially as set forth.

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

COLUMBUS RICHARD BARFIELD.

Witnesses:

M. M. BRINSON,
E. L. MCLEOD.