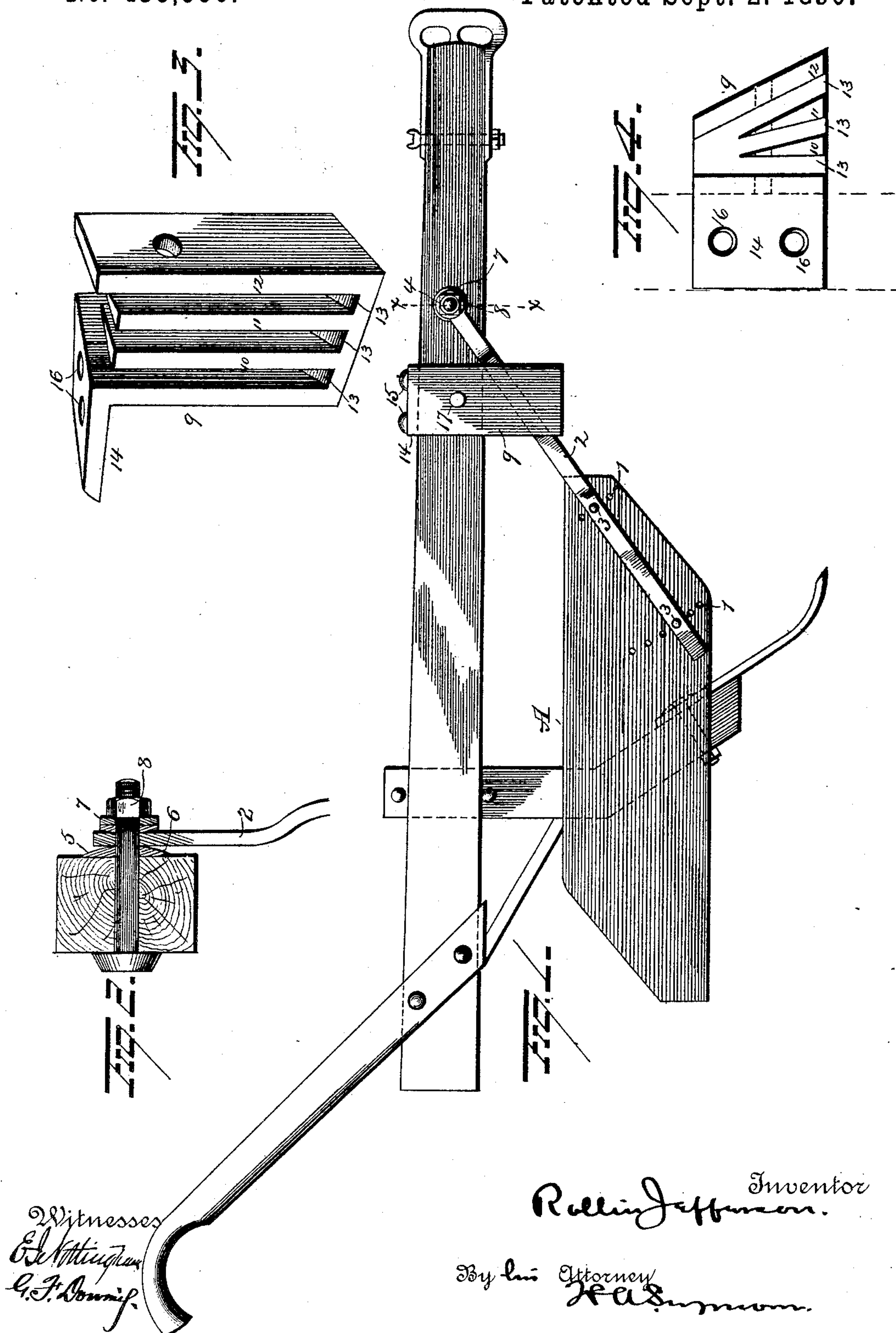


(No Model.)

R. JEFFERSON.  
PLOW FENDER.

No. 435,586.

Patented Sept. 2. 1890.



Witnesses  
*E. H. Thompson*  
*C. F. Downie*

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By *his* Attorney  
*H. A. Sumner*



# UNITED STATES PATENT OFFICE.

ROLLIN JEFFERSON, OF COLUMBUS, GEORGIA.

## PLOW-FENDER.

SPECIFICATION forming part of Letters Patent No. 435,586, dated September 2, 1890.

Application filed May 28, 1890. Serial No. 353,426. (No model.)

*To all whom it may concern:*

Be it known that I, ROLLIN JEFFERSON, a resident of Columbus, in the county of Muscogee and State of Georgia, have invented certain new and useful Improvements in Plow-Fenders; 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.

My invention relates to an improvement in fenders, the object being to provide a fender capable of lateral and vertical adjustment; and to this end it consists in certain novel features of construction and combinations of parts, as will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in side elevation of a plow, showing my improved fender and attachments applied thereto. Fig. 2 is a transverse section on line *x x* of Fig. 1. Fig. 3 is a plan view of the fender-guide bracket or hanger, and Fig. 4 is a plan view of the same.

A represents the fender, the same being preferably made from a piece of sheet metal in the shape shown. This fender is provided with two rows or series of holes 1 1, and the fender is adjustably secured to the lower end of the fender-arm 2 by means of bolts or rivets 3 3, passing through these holes 1 1, and also through corresponding holes in the arm. The holes 1 1 are preferably arranged in rows, straight or curved transversely across the fender, by which the fender is held at different inclinations or different heights relative to the fender-arm.

The opposite end of the fender-arm is pivotally secured to the side of the plow-beam on the pin or bolt 4, and in order to form a rounded bearing, or one which will admit of lateral swinging movement of the fender, a washer 5, with a rounded outer face 6, is placed on the bolt or pin next to the beam with its rounded face outward, the latter acting in the nature of a ball-bearing, admitting of a free lateral movement of the arm and fender. One or more flat or rounded washers 7 7 are placed on this bolt or pin outside of the fender-arm, and a nut 8 is screwed onto the end of the bolt to hold the parts on.

The fender is held in the proper lateral position by the guide-bracket or hanger 9 on the plow-beam. This guide-bracket or hanger consists of three or more plates (represented by numerals 10, 11, and 12) secured together at their lower ends and disconnected at their upper ends. The inside plate or plates, one or more in number, as the case may be, taper transversely, so that radial spaces are formed adjacent to them, and the spacing-blocks 13 13 between the plates have sloping upper edges to receive the fender-arm, which lies in one of the radial spaces, resting upon an incline upon the sloping upper edges of the blocks 13 13.

The outer plate 10 is bent laterally at its upper end and this flange 14 is adapted to rest over the plow-beam and be secured thereto by screws or bolts 15 15, passing through holes 16 16 in the flange. The fender-arm is swung from its pivots into one of the radial spaces, according to the distance it is desired to have the fender from the plowshare, the arm lying upon the inclining upper surface of the blocks 13 13, as previously mentioned. To hold the fender down in place a key or similar device 17 is inserted in the hanger over the arm, thus preventing the arm from rising out of the hanger. When it is necessary to change the position of the fender, it is simply raised and dropped into another slot or space and the key is again inserted to retain the arm in the hanger.

It is evident that slight changes might be resorted to in the form and arrangement of the several parts described—as, for example, the hanger or guide-bracket might be cast in one piece without departing from the spirit and scope of my invention, and hence I do not wish to limit myself to the exact construction herein set forth; but,

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

1. The combination of a pivotally-supported fender and a guide-bracket or hanger having radial spaces and sloping bottoms to the spaces to receive and support the fender, substantially as set forth.

2. The combination, with a plow and guide-bracket or hanger secured thereto, the latter having radial spaces therein, of a fender piv-

otally supported on the plow and rounded bearings for the fender, substantially as set forth.

3. The combination, with a plow-beam, a  
5 fender, an arm adjustably secured to the fender, a bearing bolt or pin with which the arm is connected to the plow-beam, and rounded washer on the bolt adjacent to the plow-beam, of a hanger having radial spaces adapted to  
10 receive the fender-arm and keys or other

means for holding the arm in the spaces, substantially as set forth.

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

ROLLIN JEFFERSON.

Witnesses:

BENJ. L. JEFFERSON,  
F. M. BAGLEY.