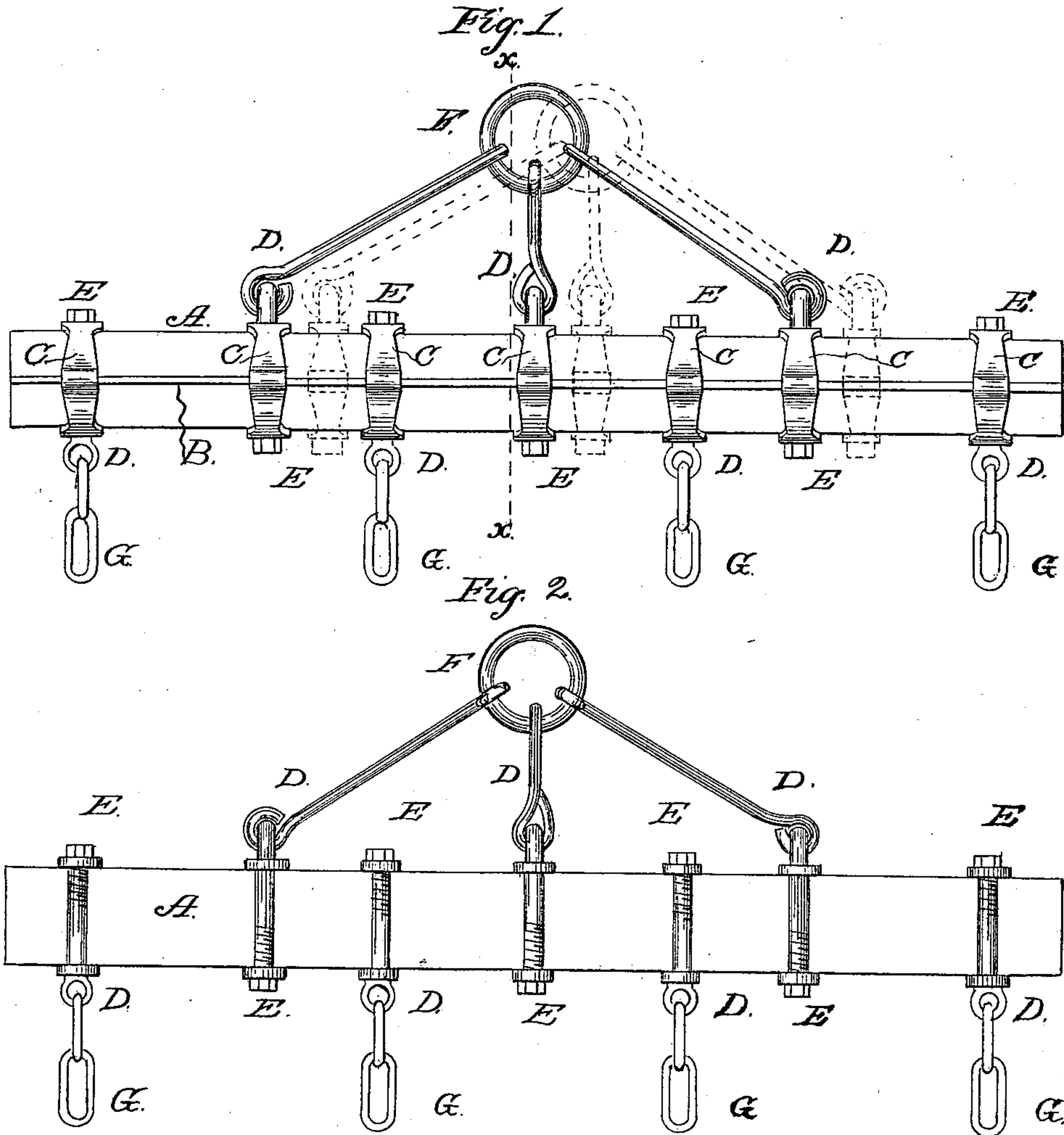


(No Model.)

J. E. BEEBE.  
HARROW DRAFT BAR.

No. 336,375.

Patented Feb. 16, 1886.



Witnesses.  
R. W. Bishop.  
Lucie Reiler.

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# UNITED STATES PATENT OFFICE.

JOSEPH ELLIS BEEBE, OF ADAIR, IOWA.

## HARROW DRAFT-BAR.

SPECIFICATION forming part of Letters Patent No. 336,375, dated February 16, 1886.

Application filed November 17, 1885. Serial No. 183,121. (No model.)

*To all whom it may concern:*

Be it known that JOSEPH ELLIS BEEBE, a citizen of the United States, residing at Adair, in the county of Adair and State of Iowa, have  
5 invented certain new and useful Improvements in Harrow Draft-Bars; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others  
10 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 is a drag-bar for harrows, and  
15 has for its object to provide a device which will be simpler, more durable, and cheaper than those now in use.

It consists in certain novel features of construction and combination of parts, as herein-  
20 after fully described, and pointed out in the claims.

In the drawings hereto annexed, Figure 1 is a top, and Fig. 2 a bottom, plan view of my drag-bar; and Fig. 3 is a vertical section on  
25 the line *x x*, Fig. 1.

In carrying out my invention I employ two plates, A B, of iron or steel, of proper dimensions. The plate B is placed upon the plate A at right angles thereto, and secured in position by suitable clamps, as shown. The two  
30 plates are held together by clamps, consisting of the clips C and eyebolts D, provided with the nuts E. The clips are made in the shape shown, being bent on themselves in the middle, so as to bind around the upper edge of  
35 the plate B, and its ends are bent outward and down over the edges of the plate A, extending sufficiently far below the same to receive and hold the eyebolts D.

40 In the drawings I have illustrated the drag-bar as adapted for use on a harrow of two sec-

tions; but it will be understood that the construction will not be changed to adapt it for use on a harrow of three or more sections. The eyebolts D are placed through the de- 45 pending ends of the clips in alternately-opposite directions, as shown. Those projecting in one direction have the hitching devices F secured thereto, while those projecting in the opposite direction are provided with links or 50 short chains G, by means of which they are attached to the harrow-sections, as will be understood. By loosening the nuts E the clips C can be shifted along the drag-bar, as shown in dotted lines, Fig. 1, and the harrow thereby 55 be caused to run in line with or at an angle to the draft.

The device is simple, strong, and durable, and can be manufactured at a small cost.

Having thus described my invention, what I 60 claim, and desire to secure by Letters Patent, is—

1. A drag-bar for harrows, composed of flat metal plates placed at right angles relative to their longitudinal length and held together by 65 adjustable clamps, substantially as described and shown.

2. The combination of the two metal plates placed at right angles, clips placed over the said plates and conforming to the cross-sectional outline of the same, and eyebolts passed 70 through the depending ends of the clips in alternately-opposite directions, whereby they are adapted to receive the hitching devices and be connected to the harrow sections, substan- 75 tially as specified.

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

JOSEPH ELLIS BEEBE.

Witnesses:

W. S. WISHARD,

G. H. WETMORE.