D. P. HERSHBERGER.

Draft-Equalizer.

No. 219,260. Patented Sept. 2, 1879.

Fig. 1

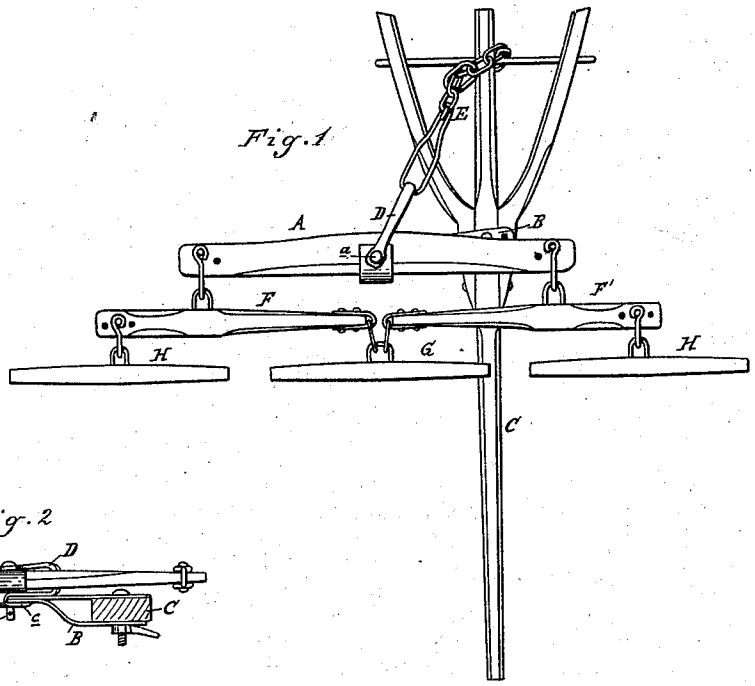


Fig. 2

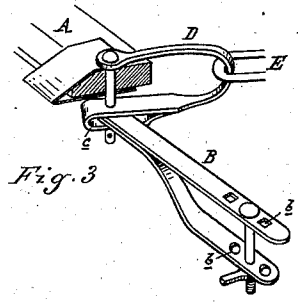


Fig. 3

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DANIEL P. HERSHBERGER, OF GOSHEN, INDIANA.

IMPROVEMENT IN DRAFT-EQUALIZERS.

Specification forming part of Letters Patent No. **219,260**, dated September 2, 1879; application filed May 16, 1879.

To all whom it may concern:

Be it known that I, DANIEL P. HERSHBERGER, of Goshen, in the county of Elkhart, in the State of Indiana, have invented an Improvement in Draft-Equalizers, of which the following is a specification.

The nature of my invention relates to new and useful improvements in that class of devices which are employed to allow three horses to be worked abreast, where two horses are attached to one end of an ordinary two-horse evener and the other horse is attached to the opposite end, and by means of which the draft will be equalized and the side draft counteracted.

The invention consists in the novel details of construction and their various combinations, as more fully hereinafter described.

Figure 1 is a plan view of my improved equalizer. Fig. 2 is a front view of the tongue with brace attached. Fig. 3 is a detached perspective view of the brace and clevis by means of which the main evener is attached to the tongue.

In the accompanying drawings, which form a part of this specification, A represents an ordinary two-horse evener, pivotally secured by the bolt *a* to the outer end of the brace B. This brace is bifurcated to embrace the tongue C, to which it is adjustably secured by a bolt passing through one of the perforations *b* and the tongue. These perforations, being coincident in both legs of the brace, allow the latter to be lengthened or shortened at will, or as occasion may require. The bolt *a* also pivotally secures the clevis D, which is provided with a loop, *c*, which embraces the end of the brace. A chain, E, attached to the loop of the clevis, leads rearward to any convenient point, where it is adjustably secured in such manner that it may be lengthened or shortened, as the position of the brace may require. To the outer ends of the evener A are attached the clevises, and to each of these clevises is attached a lever, F F′, so that the longer arms of each project inwardly. These levers are of equal length, and to their inner ends is secured, by suitable links, a whiffletree, G. To the outer and shorter ends of these levers are attached the whiffletrees H. A bevel shield, of metal, is secured by the bolt *a* to the front edge of the evener A, to prevent the inner ends of the levers from resting against the evener in case they should be thrown back so far by the unequal draft of the outside horses, and guide such ends up the incline of the guard above the evener. This movement will at all times prevent the center horse from shirking his work.

By this construction great strength and certainty in result are obtained, and a lateral adjustability secured, by which the device can be successfully applied to all kinds of work where equalizers of this character are required.

In order to give either horse any advantage that may be necessary to give to either of the outside horses, the clevises at the outer ends of the levers are adjustable to or from their fulcrum.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In draft-equalizers, the clevis D, provided with a loop, *c*, which embraces the outer end of the brace-arm B, in combination with the evener A and chain E, substantially as specified.

2. In draft-equalizers, the bevel shield, in combination with the evener A, levers F F′, and whiffletrees G H, substantially as and for the purposes set forth.

3. A draft-equalizer consisting of the evener A, brace-arm B, tongue C, clevis D, chain E, levers F F′, and whiffletrees G H, the parts being constructed, arranged, and operating substantially as described.

DANIEL P. HERSHBERGER.

Witnesses:

H. S. SPRAGUE,

THEO. S. DAY.