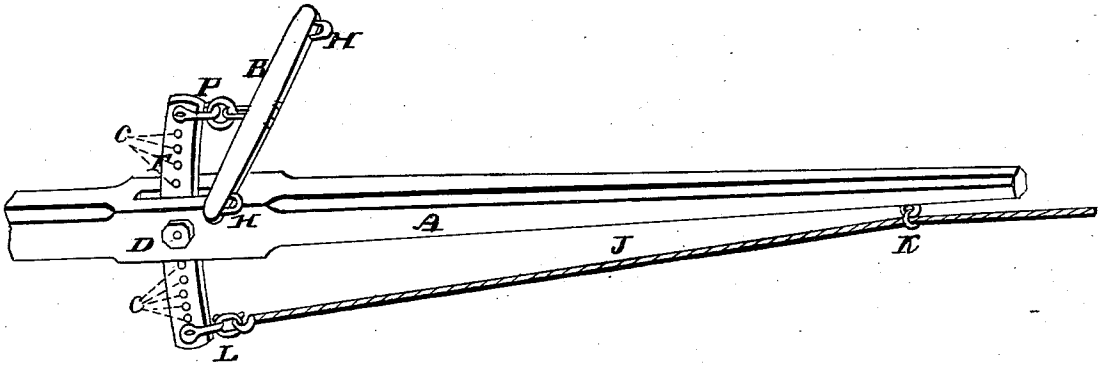


S. SHADDUCK.

Dratt Equalizer.

No. 82,443.

Patented Sept. 22. 1868.



Witnesses.

Thomas Calderwood

Geo. W. Sturtevant

Inventor.

Seth Shaddock

United States Patent Office.

SETH SHADDUCK, OF ELK RIVER TOWNSHIP, IOWA.

Letters Patent No. 82,443, dated September 22, 1868.

IMPROVEMENT IN DRAUGHT-EQUALIZER.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, SETH SHADDUCK, of Elk River township, in Clinton county, State of Iowa, have invented a Device for Equalizing Draught on Mowers, Reapers, and Wagons; and I do hereby declare that the following is a clear and exact description of the construction and operation of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in constructing and arranging bar F with holes, so it can be adjusted to equalize the draught between three, four, or more horses, and, by observing the bar, the driver can quickly tell which part of the team is doing the most work, and an advantage can be given one part of the team over another by adjusting this bar.

In order that others may understand my invention, I will describe its construction and operation.

In the drawing—

Figure 1 represents the device in perspective.

A represents the tongue.

B represents the double-tree.

c c, &c., holes through bar F.

D, the bolt for bar F to work on in tongue A.

F, bar.

H H, staples to attach single-tree to.

J, chain or rope for leading team.

K, ring for rope J to pass through.

L, clevis to attach rope J to bar.

P, clevis to attach double-tree B to bar F.

I construct the tongue A of any suitable material and in the ordinary manner. Through this tongue I make a mortise for the bar F to work in. I also put a staple and ring near the end of the tongue for the rope J to pass through, as at K.

I construct the bar F of wood or iron, and have a number of holes in it, as at c c, &c.

I make clevises, double-tree, and single-trees, in the ordinary manner, claiming no patent thereon.

The operation of this device is as follows: If we desire to equalize the draught between three horses, adjust the bar F so the distance between bolt D and clevis P will be one-third the distance of bolt D to clevis L. If four horses are used, have the bolt D in the centre of bar F, if it is desired to give one part of the team advantage over the other part by moving the bar F up or down, putting the bolt D to any one of the holes c c, &c., to make the requisite distance, or by changing the devices P and L to either of the holes, effecting the same purpose.

The chain J, I attach to clevis L, and it passes through ring K, which holds it in line of tongue to the double-tree of single-tree of forward team.

I make the ring K into a link, if it needs more room, so as to prevent too much downward pressure on the tongue. This ring, K, farther allows the chain J to move back and forward as the team forward draw more or less than the back team, thus allowing the free action of the bar F.

The driver, by observing the position of the bar F, and the way it is inclined, can readily tell which part of the team is drawing the most, and govern them accordingly.

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

The draught-bar F, provided with adjusting-holes c c c, &c., and ring K, substantially for the purpose described.

In testimony that I claim the foregoing, I hereby affix my signature, on this 21st day of June, A. D. 1868, in the presence of two witnesses.

SETH SHADDUCK.

Witnesses:

THOMAS CAIDREWOOD,
GEO. W. STUMBAUGH.