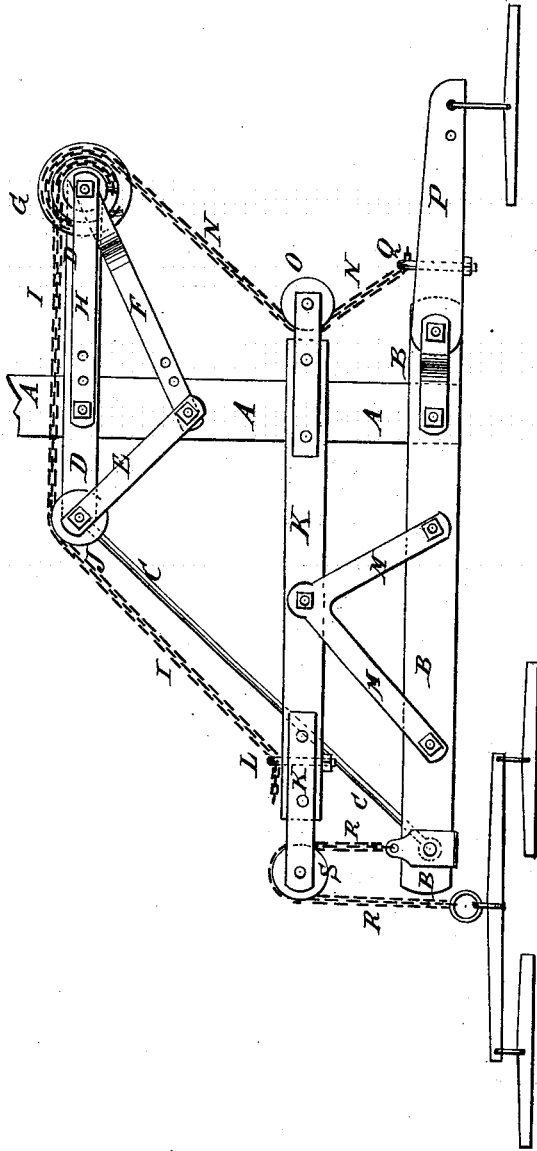


A. J. F. EHRICH.
Draft-Equalizer.

No. 199,045.

Patented Jan. 8, 1878.



WITNESSES:

Chas. Nida.
J. H. Scarborough.

INVENTOR:

A. J. F. Ehrich
BY *Munroe*

ATTORNEYS.

UNITED STATES PATENT OFFICE

ADOLPH J. F. EHRICH, OF KELLOGG, MINNESOTA.

IMPROVEMENT IN DRAFT-EQUALIZERS.

Specification forming part of Letters Patent No. **199,045**, dated January 8, 1878; application filed September 22, 1877.

To all whom it may concern:

Be it known that I, ADOLPH J. F. EHRICH, of Kellogg, in the county of Wabasha and State of Minnesota, have invented a new and useful Improvement in Three-Horse Evener, of which the following is a specification:

The figure is a top view of my improved device.

The object of this invention is to furnish an improved device for attaching three horses to a reaper, harvester, mower, seeder, wagon, plow, roller, or other draft, to cause all the horses to draw alike, and to balance the side draft.

The invention consists in a three-horse evener, formed by the combination of the bars, the braces, the bracket, the double pulley, the guide-pulleys, and the chains with each other and with a tongue, in the manner hereinafter fully described.

A represents the tongue of the machine to which the draft is to be applied. To the tongue A is bolted a bar, B, at a little distance from one end. To the outer end of the bar B is attached the forward end of a brace-rod, C, the rear end of which is attached to the end of the shorter arm of the bar D. The bar D is bolted to the tongue A, and is strengthened by the braces E F, the outer ends of which are bolted to the ends of the bar D, and their inner ends are bolted to the tongue A a little in front of the said bar D.

G is a double pulley, the two parts of which are of unequal diameter, and which is placed between and pivoted to the outer end of the bars D and H.

The inner end of the bar H is secured to the tongue A by the bolt that secures the bar D to the said tongue A. Several holes are formed in the bars D H and brace F, so that the

double pulley G may be moved out or in, according as there may be more or less side draft to the machine.

To the smaller part of the double pulley G is attached the end of a chain, I, which passes around a guide-pulley, J, pivoted to the outer end of the bar D, and its other end is secured to the bar K near its outer end by a grab-hook, L, so that the said chain may be let out or taken up, as required. The bar K is pivoted at or near its center to the bracket M, which is attached to the bar B.

To the larger part of the pulley G is attached the end of a chain, N, which passes around a guide-pulley, O, pivoted to the inner end of the bar K, and its other end is attached to the bar P near its inner end by a grab-hook, Q, so that it may be lengthened and shortened, as required. The inner end of the bar P is pivoted to the inner end of the bar B, and to its outer end is pivoted the whiffletree of the single horse. To the outer end of the bar B is attached the end of a chain, R, which passes around a guide-pulley, S, pivoted to the outer end of the bar K, and to its other end is attached the double-tree of the two horses.

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

A three-horse evener formed by the combination of the bars B K D H P, the braces C E F, the bracket M, the double pulley G, the guide-pulleys J O S, and the chains I N R, with each other, and with a tongue, A, substantially in the manner herein shown and described.

ADOLPH J. F. EHRICH.

Witnesses:

WILLIAM W. BARTON,
M. C. MALONE.