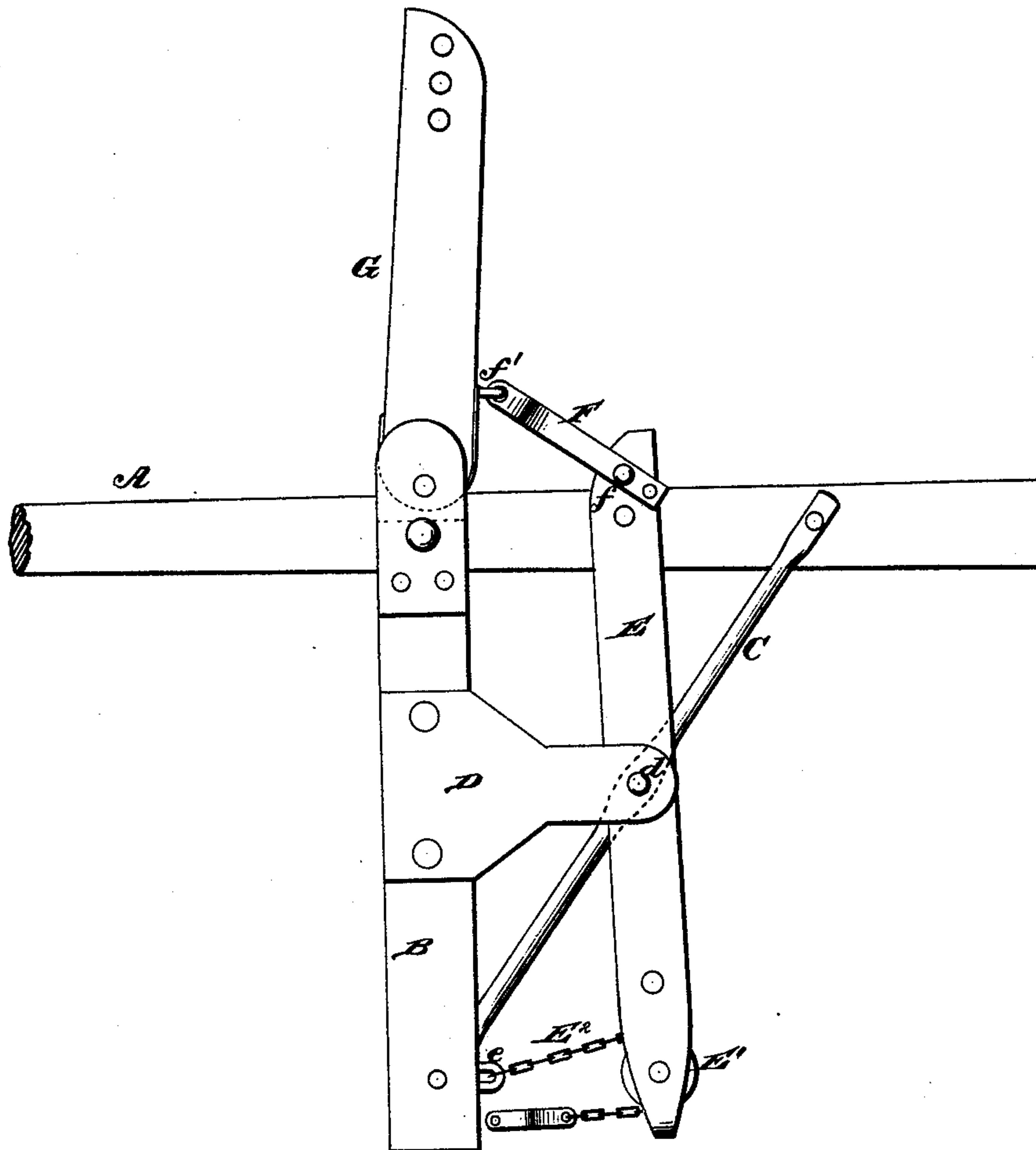


A. J. F. EHRICH.
Draft Equalizer.

No. 218,370.

Patented Aug. 12, 1879.



WITNESSES
Robert Swartz
Geo. E. Upham

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UNITED STATES PATENT OFFICE.

ADOLPH J. F. EHRLICH, OF LIGHTFIELD, MINNESOTA.

IMPROVEMENT IN DRAFT-EQUALIZERS.

Specification forming part of Letters Patent No. **218,370**, dated August 12, 1879; application filed January 11, 1879.

To all whom it may concern:

Be it known that I, ADOLPH J. F. EHRLICH, of Lightfield, in the county of Meeker and State of Minnesota, have invented a new and valuable Improvement in Draft-Equalizers; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing, making a part of this specification, and to the letters and figures of reference marked thereon.

The figure of the drawing is a representation of a top plan of my draft-equalizer.

My invention relates to a device for equalizing the draft of the horses, the same being especially adapted to the use of three horses; and the novelty consists in the construction and arrangement of parts, as will be more fully hereinafter set forth.

In carrying out my invention I employ the ordinary pole, with a rigid right-angled bar connected thereto, and a metal brace at an angle of about forty-five degrees strengthening both. A plate rigid with the bar furnishes a pivotal bearing for a rocking shaft, the pivotal bolt of which passes through the brace. A chain leading from the bar and over a pulley journaled in the end of the rocking shaft is provided with a clevis or other proper connection, by which it is secured to the double-tree. The other end of the rocking shaft is provided with a bifurcated link, which connects it with a pivoted lever, as shown.

My invention is designed as an improvement upon my Patent No. 198,045, of January 8, 1878, in which the construction was complicated and liable to get out of order.

The object of the present invention is to

simplify the construction, and at the same time to produce an efficient device for the desired purpose.

Referring to the drawing, A represents the pole; B, the rigid right-angled arm; and C, the brace, as shown. A plate, D, rigid with the arm B, furnishes pivotal bearing at *d* for a rocking shaft, E, in one end of which is journaled a pulley, E¹, over which operates a chain, rope, or the like, E², one end of which is stapled to the arm B, at *e*, and to the other is attached the double-trees. (Not shown.) From the opposite end of the rocking shaft E, at *f*, is pivoted a bifurcated link, F, which, in turn, is pivoted to a pivoted lever, G, at *f'*, to which lever is attached the single-tree.

Various changes in construction may be made without departing from the principle of my invention, the operation of which is obvious from the foregoing, having in view the aforesaid patent to me.

The various connections are made adjustable, as shown.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

The arm B, rocking lever E, pulley E¹, chain E², bifurcated link F, and pivoted lever G, adapted to operate in connection with single-trees and double-trees, as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ADOLPH J. F. EHRLICH.

Witnesses:

CHAS. H. ATKINSON,
B. A. MANTER.