S. H. WHEELER.

Draft Equalizer.

No. 89,614. Patented May 4, 1869.

Fig. 2

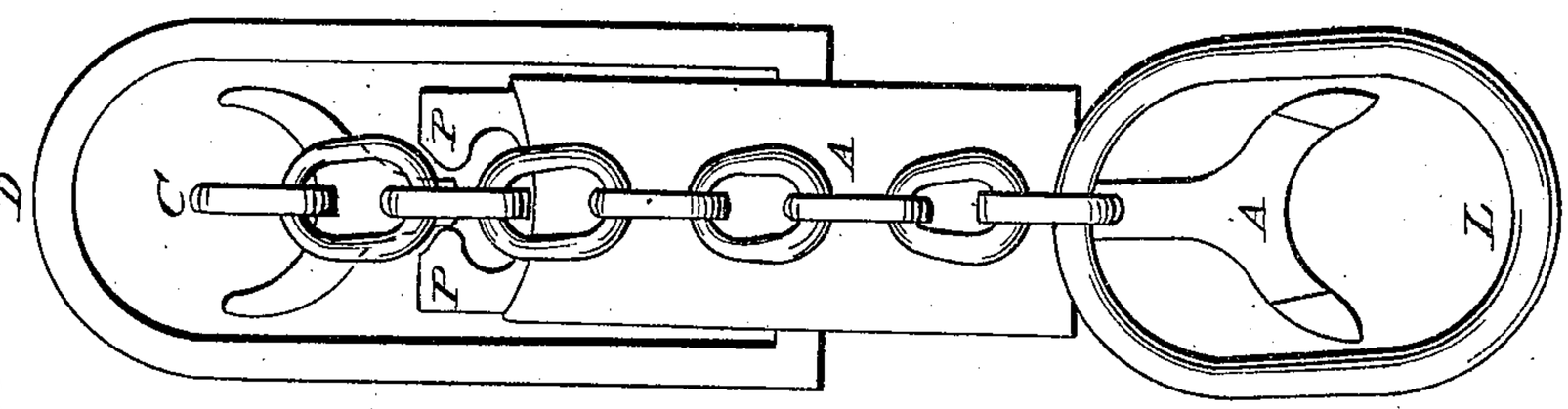
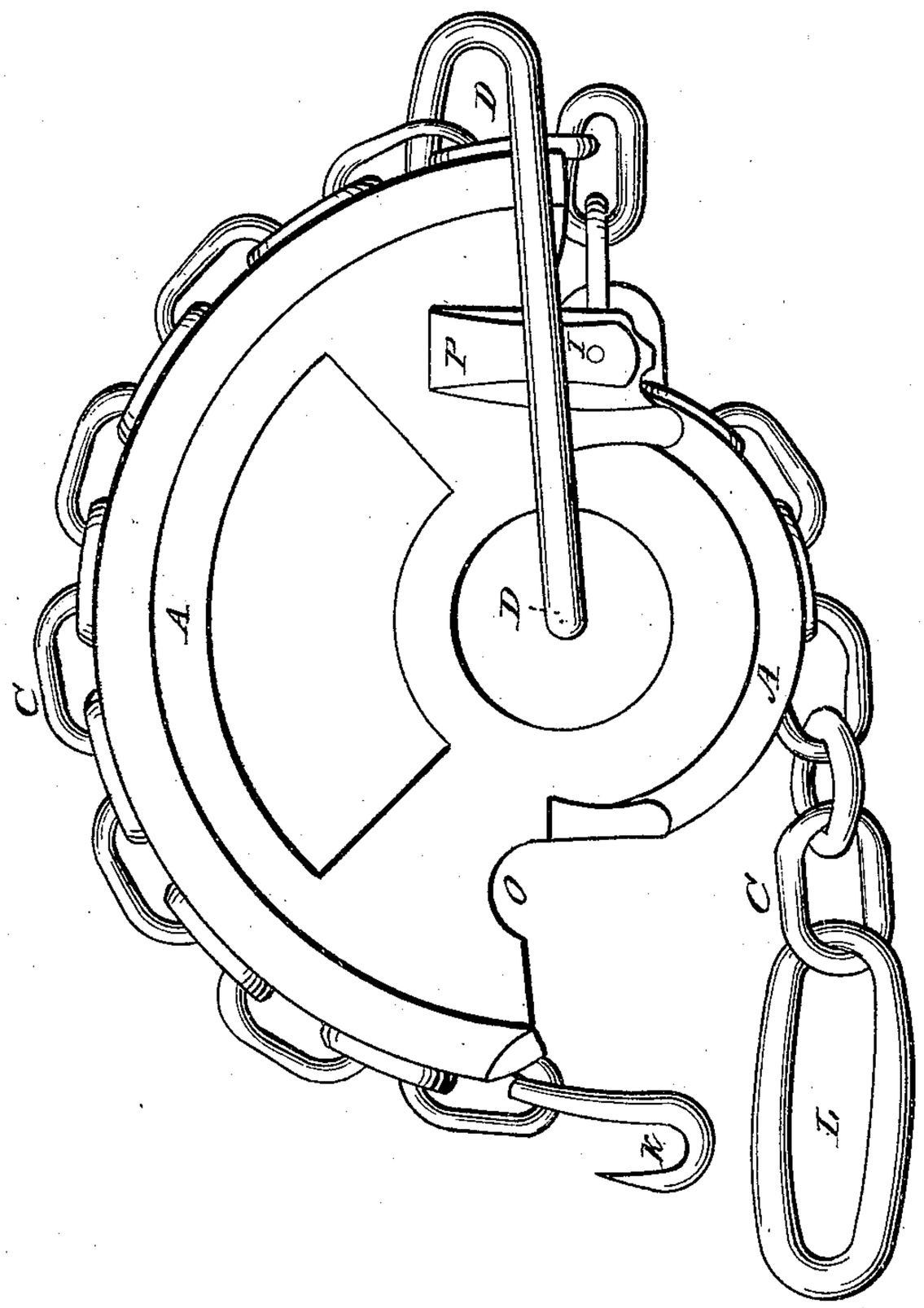


Fig. 1



Witnesses:

R. B. Wheeler

S. Bonling

Inventor:

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United States Patent Office.

SHEPHERD H. WHEELER, OF DOWAGIAC, MICHIGAN.

Letters Patent No. 89,614, *dated May* 4, 1869.

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, SHEPHERD H. WHEELER, of Dowagiac, in the county of Cass, and State of Michigan, have invented a new and useful Device for "Equalizing the Draught for Three Horses;" and I do hereby declare that the following is a full and clear description of the construction and operation of the same, reference being had to the annexed drawing, making a part of this specification, in which—

Figure 1 is a perspective view, and

Figure 2 is a longitudinal view through the diameter.

The nature of my invention consists in constructing a lever, by uniting two semicircles, A A, of different-length radius, the shorter radius being one-half of the length of the larger radius.

The two semicircles A A are joined together at the hub B, and are concentric.

The periphery of each of the circles A A is grooved to receive the chains to which the three horses are hitched.

Two horses are hitched, by means of the ordinary evener and single-trees, to the chain that winds on the circle, having the shorter radius, while the third horse is hitched, by his single-tree, to the chain that winds on the circle having the larger radius either between or in advance of the other two horses.

And my lever may be used in a vertical or horizontal position, as the occasion may require, for working three horses at a plow, or on a wagon, but should be used in a horizontal position on a wagon with the third horse in advance of the other two, using a long chain running back to the equalizing-lever A A.

The object of my invention is to secure a lever of greater range than can be obtained from a simple lever of the same length, as is now used by some, where a long lever could not be used, and where a wheel is too heavy and expensive, that will admit of a great variation in the speed of the several horses, without changing their relative amount of labor, until the lever A A has made a half revolution, giving sufficient range for the practical working of three horses.

The bail, or clevis D acts as the fulcrum.

In order to enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

The lever A A is made of iron of any desired size.

The bail D is made of one piece, welded in, or a clevis may be used instead of the bail.

The lugs P P are so shaped as to conform to and hold the chain C C, by the means of a bolt or rivet, F.

The chain C C is made of one piece, and provided at one end with a large link, L, to which two horses are hitched, and into which the front corner of the large semicircle dips, as the accelerated speed of the third horse, drawing at the other end-of chain C C, causes his end of the lever A A to rock forward.

The recess at O is to give room to the chain to extend, as the links wear at that end having the link L.

Having thus described my invention,

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

1. The construction of a three-horse equalizing-draught lever, by uniting two concentric semicircles, A A, of different diameters, as and for the purpose specified.

2. In a three-horse equalizing-draught lever, formed of two semicircles A A, the construction and arrangement of the lugs P P, the link L, and the recess O, substantially as described.

3. In a three-horse equalizing-draught lever, formed of two semicircles A A, the use of a single chain, C C, provided at one end with the link L, and at the other end with the hook K, and fastened to the lugs P P by means of the bolt or rivet F, in the manner and for the purpose set forth.

In witness that I claim the foregoing, I have hereunto set my hand, this 4th day of September, 1868.

SHEPHERD H. WHEELER.

Witnesses:

R. B. WHEELER,

S. BOWLING.