

No. 744,177.

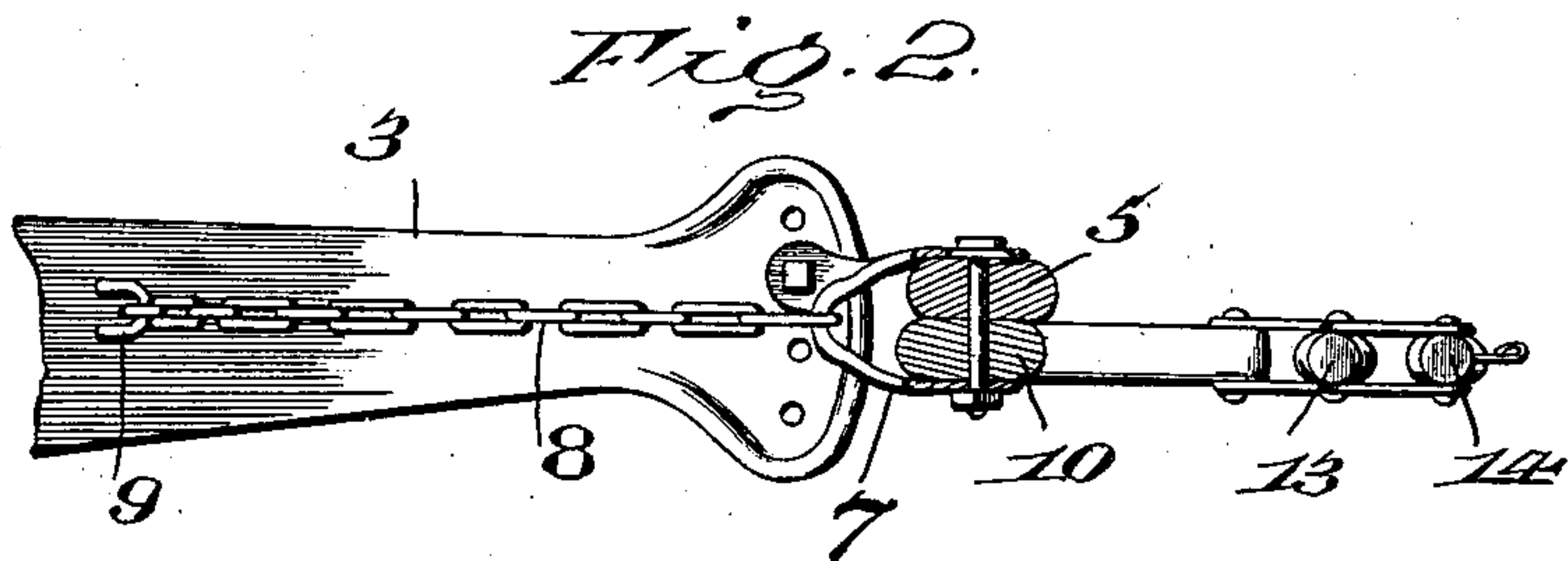
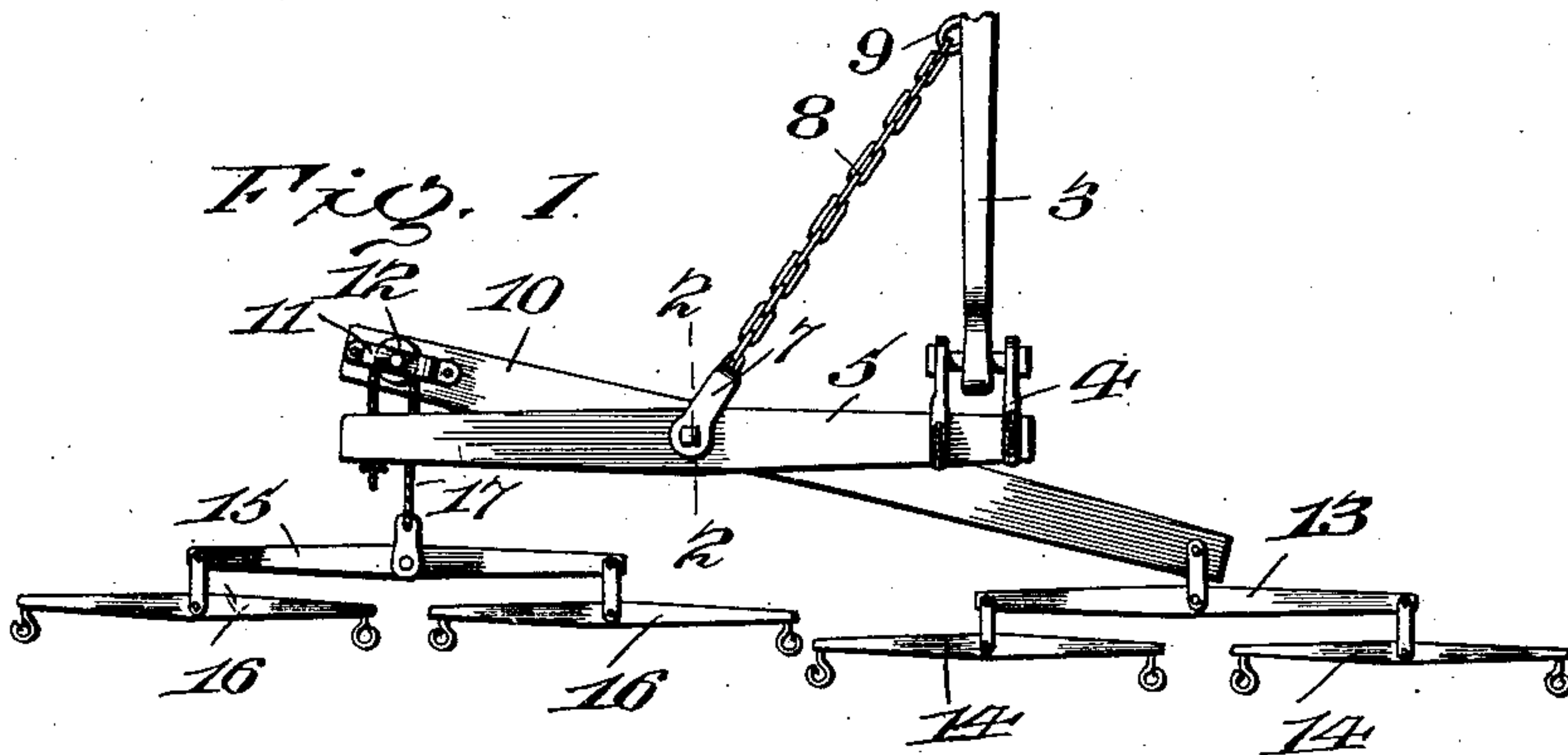
PATENTED NOV. 17, 1903.

C. C. & W. D. DILLAVON.

DRAFT EVENER.

APPLICATION FILED FEB. 2, 1903.

NO MODEL.



Witnesses

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UNITED STATES PATENT OFFICE.

CURTIS C. DILLAVON AND WILLIAM D. DILLAVON, OF CLINTON, ILLINOIS.

DRAFT-EVENER.

SPECIFICATION forming part of Letters Patent No. 744,177, dated November 17, 1903.

Application filed February 2, 1903. Serial No. 141,490. (No model.)

To all whom it may concern:

Be it known that we, CURTIS C. DILLAVON and WILLIAM D. DILLAVON, citizens of the United States, residing at Clinton, in the county of Dewitt and State of Illinois, have invented certain new and useful Improvements in Draft-Eveners, of which the following is a specification.

The object of our invention is to provide a simple but effective draft-evenner for such implements as binders, gang-plows, and sulky-plows that will evenly distribute the draft to the teams attached thereto; and with this and minor objects in view our invention consists of the parts and combination of parts, as will be hereinafter more fully set out.

In the drawings, Figure 1 is a top plan view of our improved draft-evenner suitably secured to a plow-beam for purposes of illustration. Fig. 2 is a sectional view of the same on the line 2 2, Fig. 1, parts being shown in elevation.

3 represents a plow-beam broken away, which is used merely for purposes of illustration in showing the method of attachment of our improved draft-evenner to the vehicle.

4 is a clevis of any approved pattern, which is adjustably secured to the forward end of the beam 3.

5 is an arm rigidly secured at one end to the clevis 4 and extending bodily to one side of the beam 3, as clearly shown in Fig. 1. This arm is provided with a loop 7, pivoted to the center thereof, to which is attached one end of a chain 8, the other end of the chain being suitably secured at 9 to the beam, whereby said arm is rigidly held at right angles to the beam 3.

10 is a draft-lever pivoted to the arm 5 by means of the bolt passing through the loop 7, and it will be noticed in this connection that the pivot-point of the draft-lever is to one side of the center of the same, said draft-lever being provided on the extreme end of its shorter arm with a loop 11, within which is journaled a pulley 12. To the longer arm of

the draft-lever is suitably pivoted a double-tree 13, to each end of which is pivoted a swingle-tree 14. 15 is a double-tree, to which are suitably secured at its ends swingle-trees 16. This double-tree 15 is connected to the arm 5 by means of a rope or chain 17, one end of which is connected to the double-tree 15, thence passed around the pulley 12 of the draft-lever 10, and finally secured at its other end to the arm 5, as illustrated in Fig. 1.

The operation of the device is obvious, and it will be seen that the parts are so constructed and secured relatively to each other that teams attached to the plow must pull an equal share of the draft, inasmuch as one of the teams is pulling from one end of the draft-lever 10 direct, while the other is pulling direct from the outer end of the arm 5 by means of the rope or chain 17, and by reason of the connection of the arm 5 by the clevis and chain 8 to the arm 3 each team will have an equal leverage, the direct pull being immediately at the end of the plow-beam.

Having thus described our invention, the following is what we claim as new:

1. In a draft-evenner, the combination with the beam, an arm rigidly secured thereto at one end, and extending bodily at right angles to said beam, of a draft-lever eccentrically pivoted to the center of said arm; and double-trees connected with the ends of said draft-lever.

2. In a draft-evenner, the combination with the beam, of an arm rigidly secured at one end thereto, and projecting bodily at right angles to one side of said beam, means connecting the center of said arm with the beam, a draft-lever pivoted eccentrically to the center of said arm, a double-tree secured to one end of said draft-lever, and a double-tree secured to the outer end of said arm, and having connection with the other end of the draft-lever.

3. The combination with a beam and an arm secured at one of its ends to said beam, and extending at right angles thereto, a con-

nection between the center of said arm and
said beam, of a draft-lever between the cen-
ter of said arm and said beam, of a draft-le-
ver pivoted eccentrically to said arm, a dou-
5 bletree secured to the longer arm of said draft-
lever, a pulley secured to the shorter arm of
the draft-lever, a cable passing around said
pulley, and having one of its ends secured to
the outer end of said arm, while its other end
10 is secured to a doubletree.

The foregoing specification signed this 22d
day of January, 1903.

CURTIS C. DILLAVON.

WILLIAM D. DILLAVON.

Curtis C. Dillavon signs in presence of—

E. B. WESTCOTT,

J. W. PAYNE.

William D. Dillavon signs in presence of—

L. D. EATON,

GEO. B. MARVEL.