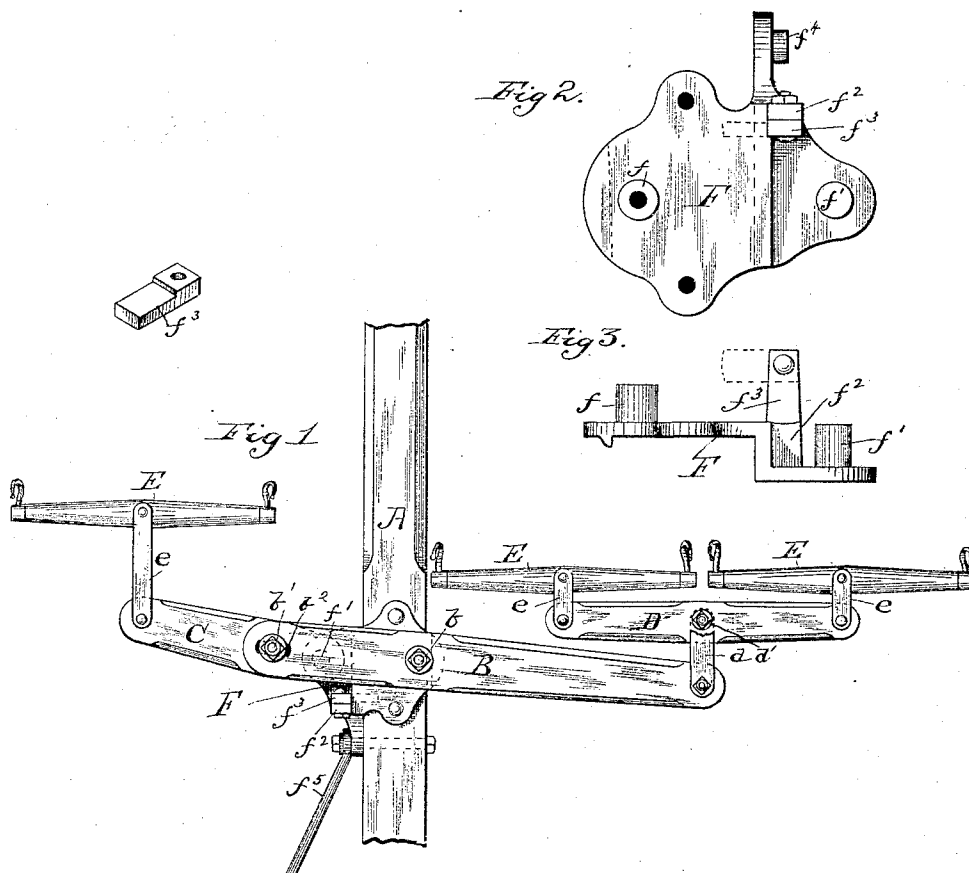


(No Model.)

M. KANE.
DRAFT EQUALIZER.

No. 328,037.

Patented Oct. 13, 1885.



Witnesses:
Sam Eaton
Myron L Kellogg

Inventor:
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UNITED STATES PATENT OFFICE.

MAURICE KANE, OF CHICAGO, ILLINOIS.

DRAFT-EQUALIZER.

SPECIFICATION forming part of Letters Patent No. 328,037, dated October 13, 1885.

Application filed May 8, 1885. Serial No. 164,784. (No model.)

To all whom it may concern:

Be it known that I, MAURICE KANE, of Chicago, Cook county, Illinois, have invented new and useful Improvements in Draft-Equalizers, which improvements are fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a perspective view of equalizer attached to a pole. Fig. 2 is a top view of equalizer-plate. Fig. 3 is a front view of the same.

The object of my invention is to furnish a draft-equalizer for three or more horses, to be used in connection with a pole, and connected directly thereto, and provided with an adjustable stop, so that when used on harvesting-machines its movement can be controlled, so that the single-tree will not come in contact with the reel.

My invention consists, further, in arranging the two-horse double-tree so that it can be used on equalizer-plate in place of triple-tree, when desirable.

My invention consists, further, of a three-horse equalizer which can be connected directly to the pole, dispensing with draft-rods, chains, and supports usually employed on equalizers.

In the drawings, A is a section of the pole. B is the long arm of the triple-tree, which is pivoted at b , with slot at b' .

C is the short arm of the same, with fulcrum at f' , and connected to B by means of stud b' , being bolted rigid to C, and being free to move in slot b'' .

D is double-tree, with stud d' , being equal in size to stud f on Fig. 3. This makes it interchangeable with triple-tree B, when desirable to use only two horses.

E E E are single-trees, constructed in the usual manner.

F is equalizer-plate, with pivot-stud f , fulcrum-stud f' , and stationary stop f'' , in connection with adjustable piece f^3 , which, when not in use, is placed in position as shown by dotted lines; also stud f^4 , to which pole-brace f^5 is connected.

I would further describe the working of the adjustable stop f^3 . This stop has a square projection at its upper end. The height of this projection is equal to the width of f^3 across its face where it comes in contact with and serves as a stop for B. This projection fits a recess in stationary stop f'' , the object being to prevent f^3 from moving sidewise when in a position to serve as a stop, and to prevent it from dropping down when not in use. This position is shown by dotted lines. The thickness of f^3 below the square projection is determined by the amount of movement required for equalizer B. I do not wish to be confined to this manner of constructing an adjustable stop for this purpose, as there are various ways in which this can be done.

It will be seen from the foregoing that, f' being the fulcrum for C, the draft will be equally divided. Although the spaces between b , b' , and f' may not be geometrically correct on the drawing, it is near enough to illustrate the principle.

The operation of my device is not confined to connecting C to B in the manner shown on the drawings. It is obvious that if C were placed forward or back of B and connected thereto, with fulcrum in the same relative position, the result would be the same. Also, the slot b'' might be at b , or on C at fulcrum f' ; or stud b' might be connected rigidly to B, and C be slotted for the stud to move in.

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

1. The long arm B, with slotted hole, in combination with short arm C, with fulcrum, as shown and described.

2. The plate F, in combination with studs f and f' , and adjustable stop f'' and stud f^4 , as shown and described.

3. An adjustable stop, either in combination with or separate from plate F.

MAURICE KANE.

Witnesses:

SAML. EATON,
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