

No. 756,525.

PATENTED APR. 5, 1904.

L. A. REEP.
DRAFT EQUALIZER.

APPLICATION FILED NOV. 10, 1903.

NO MODEL.

FIG. 1.

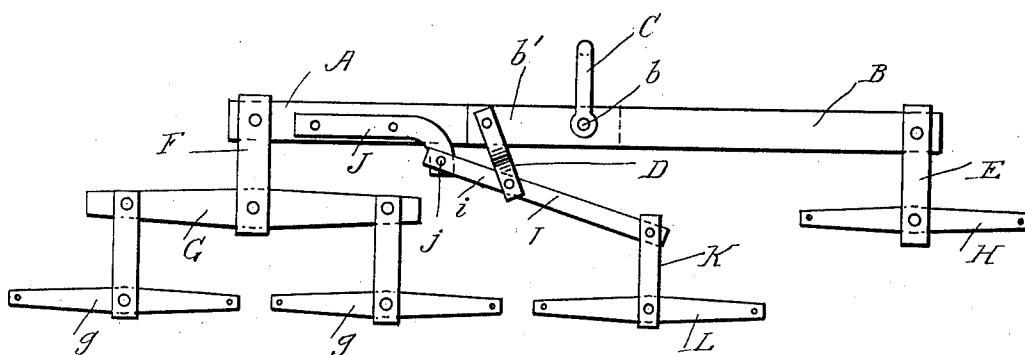
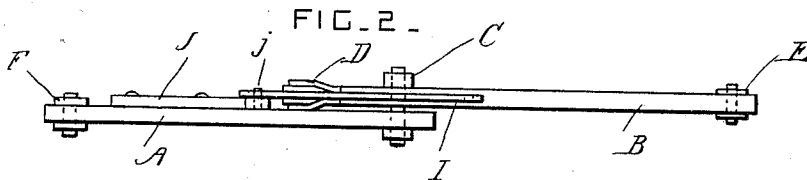


FIG. 2.



WITNESSES:

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LOUIS A. REEP, OF HARDY, IOWA.

DRAFT-EQUALIZER.

SPECIFICATION forming part of Letters Patent No. 756,525, dated April 5, 1904.

Application filed November 10, 1903. Serial No. 180,546. (No model.)

To all whom it may concern:

Be it known that I, LOUIS A. REEP, a citizen of the United States, residing at Hardy, in the county of Humboldt and State of Iowa, have
 5 invented certain new and useful Improvements in Equalizers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to
 10 make and use the same.

This invention relates to equalizers or eveners for use with four horses; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed.

15 In the drawings, Figure 1 is plan view of a four-horse equalizer constructed according to this invention. Fig. 2 is a front view showing the principal portions of the device.

20 A and B are two main levers which are pivotally connected together by a pin *b*, to which a clevis or draft attachment C is also connected. This draft attachment serves to connect the equalizer to the load. The lever B overlaps the end portion of the lever A, being
 25 provided with a short arm *b'* at that end over the lever A.

D is a link or pair of links pivoted to the short arm *b'* of the lever B.

30 E is a link or pair of links pivoted to the outer end of the lever B, and F is a link or a pair of links pivoted to the outer end of the lever A.

35 A doubletree G is pivoted to the link or links F, and *g g* are two swingletrees pivotally connected with the ends of the doubletree G.

H is a swingletree which is pivoted to the link or links E.

40 I is an auxiliary lever which is pivoted to the link or links D and which is arranged at an acute angle to the main lever B. This lever I has a short arm *i* on one side of the link D, which is pivoted to a bracket J by a pin *j*. The bracket J is rigidly secured to the lever A.
 45 The longer arm of the auxiliary lever I projects beyond the pin *b*, which connects the two main levers together, and K is a link or pair of links pivoted to the free end portion of the

lever I. L is a swingletree which is pivoted to the said link or links K.

50 A horse or other draft-animal is connected to each swingletree, and the device is specially intended for use in connection with large riding and walking plows. The various levers are so proportioned that each animal is constrained to pull equally and all side draft is
 55 prevented. One horse walks in the furrow and the other three horses walk on the land.

What I claim is—

1. In an equalizer, the combination, with 60 two main levers pivoted together, one of the said levers having a short arm which overlaps the other said lever, and a draft attachment for the load connected to the two said main levers at their point of pivotal connection with
 65 each other; of draft connections attached to the outer ends of the said main levers, a link pivoted to the short arm of one main lever, an auxiliary lever pivoted to the said link and having a short arm which is pivotally supported from the other said main lever, and a
 70 draft connection attached to the free end portion of the said auxiliary lever.

2. In an equalizer, the combination, with 75 two main levers pivoted together, one of the said levers having a short arm which overlaps the other said lever; of draft connections attached to the outer ends of the said main levers, a link pivoted to the short arm of one
 80 main lever, a bracket secured to the other said main lever, an auxiliary lever pivoted to the said link and arranged at an acute angle to the said main lever to which the said link is connected and projecting across the pivot connecting the two said main levers, said auxil-
 85 iary lever having also a short arm which is pivoted to the said bracket, and a draft connection attached to the free end portion of the said auxiliary lever.

In testimony whereof I affix my signature in 90 presence of two witnesses.

LOUIS A. REEP.

Witnesses:

G. E. KRUTSINGER,
 WM. RHINER.