

(No Model.)

J. BUTLER.
DRAFT EQUALIZER.

No. 413,129.

Patented Oct. 15, 1889.

Fig 1

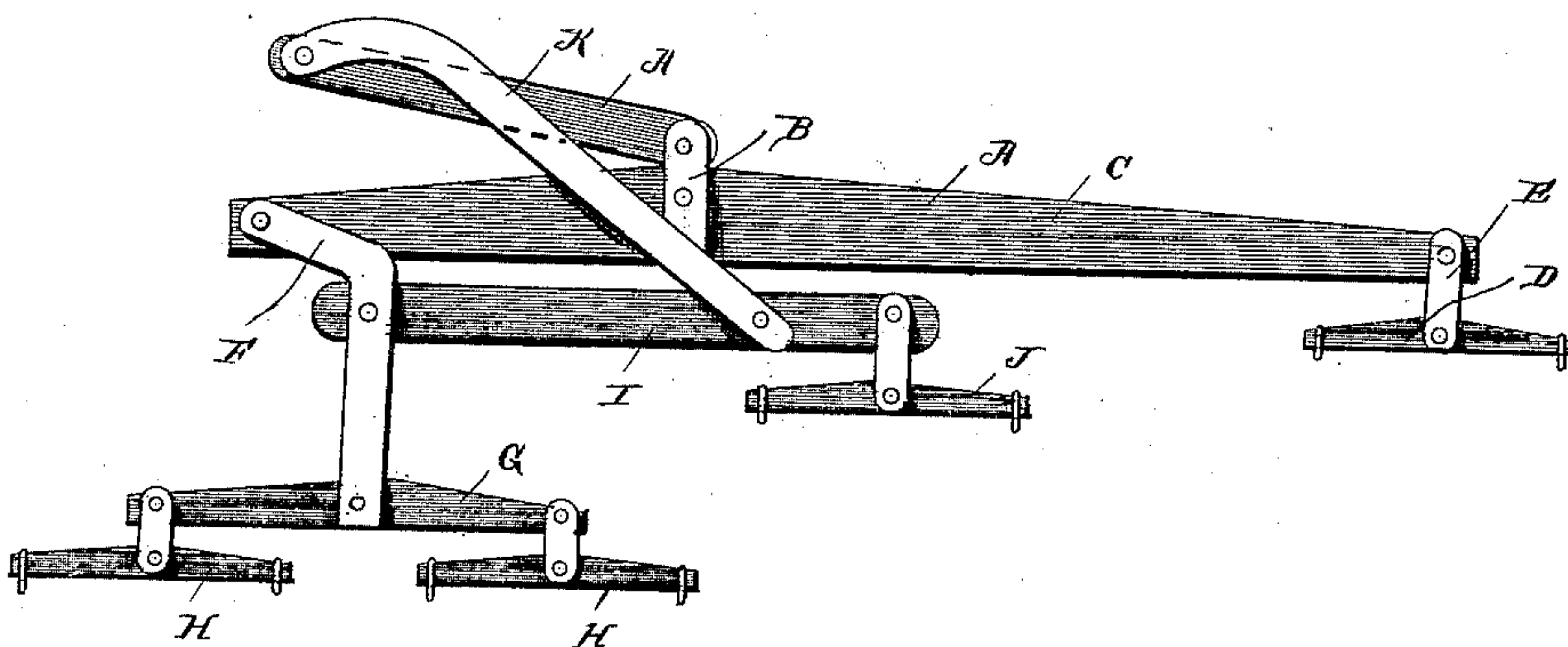


Fig 2

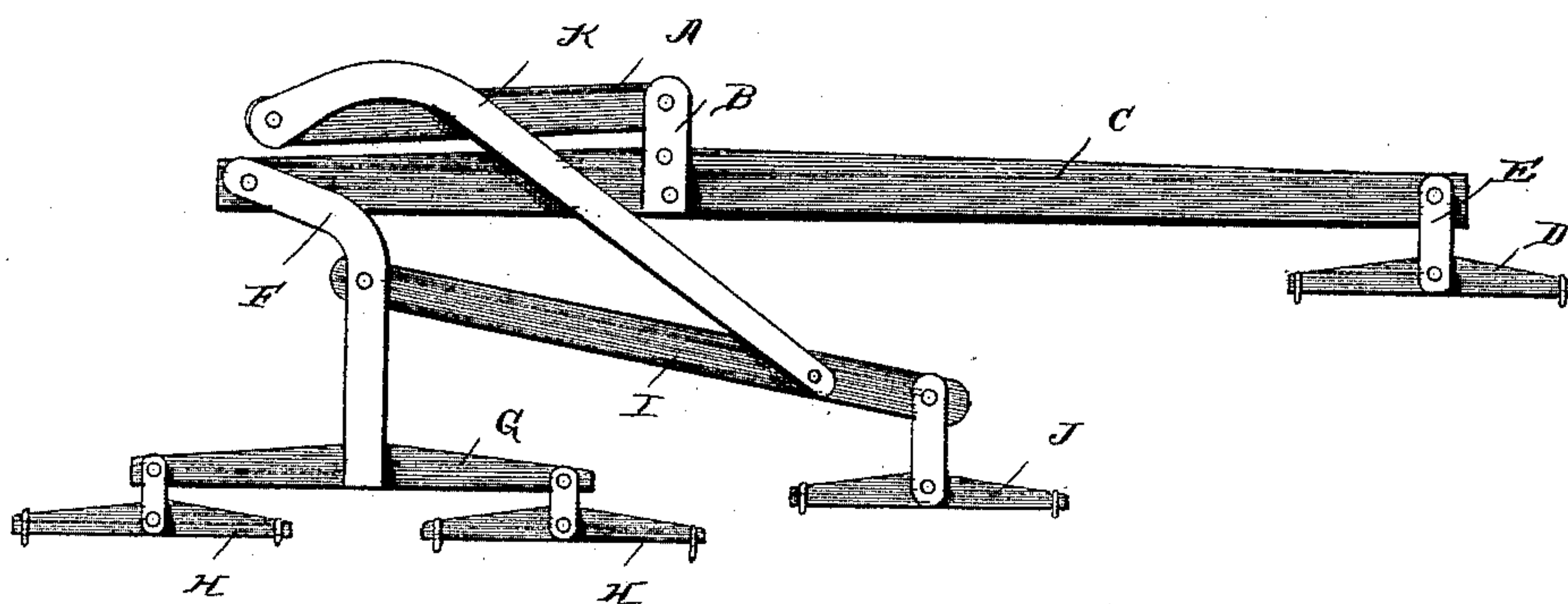
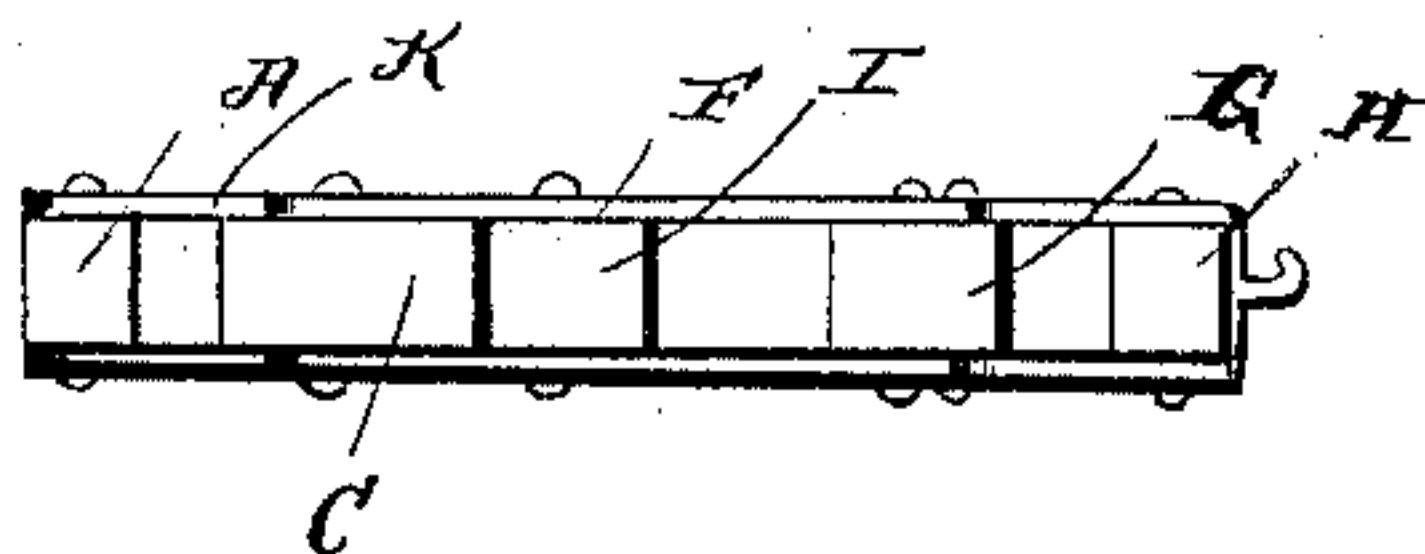


Fig 3



Witnesses

Geo. C. Frech.

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By *his* Attorneys,

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Inventor

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UNITED STATES PATENT OFFICE.

JOHN BUTLER, OF GAZA, IOWA.

DRAFT-EQUALIZER.

SPECIFICATION forming part of Letters Patent No. 413,129, dated October 15, 1889.

Application filed August 14, 1889. Serial No. 320,675. (No model.)

To all whom it may concern:

Be it known that I, JOHN BUTLER, a citizen of the United States, residing at Gaza, in the county of O'Brien and State of Iowa, have invented a new and useful Draft-Equalizer, of which the following is a specification.

My invention relates to improvements in draft-equalizers; and it consists in certain novel features hereinafter described and claimed.

In the drawings, Figure 1 is a plan view of my improved draft-equalizer. Fig. 2 is a similar view showing the parts in a different position. Fig. 3 is an edge view of the same.

Referring to the drawings by letter, A designates the main evenner-bar, which is secured to the front end of a plow beam or tongue or the pole of a harvester, and has a stirrup B pivoted to one end, in which the lever C is secured, and to the end of the longer arm of this lever I secure a singletree D by the links E. To the end of the shorter arm of this lever I pivot the angle-irons F, and between the front ends of these angle-irons I pivot a doubletree G, to the ends of which I secure the singletrees H. Between these angle-irons at bends of the same I pivot one end of the evenner-bar I, which extends along the front of the lever C and a short distance therefrom and has a singletree J at its free end. This evenner-bar I is connected with the main evenner-bar A by the inclined braces or supporting-bars K.

The construction and arrangement of the several parts of my device being thus made known, the operation and advantages of the same it is thought will be readily understood. It will be observed that three of the horses will draw from the lever C, while the

fourth horse draws from the evenner-bar I. Should the single horse forge ahead, he will draw the horses harnessed to the whiffletrees H rearward, and the motion thus given to the evenner-bar I will be imparted through the lever C and its connections to the whiffletree D, and the draft thus equalized, so that all the horses will be made to perform the same amount of work.

The device is very simple in its arrangement and is composed of very few parts.

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

1. The combination of the main evenner-bar A, the lever C, secured thereto and having a single whiffletree at one end and a pair of whiffletrees at the other end, the evenner-bar I, carrying a single whiffletree and connected with the pair of whiffletrees, and connections between said evenner-bars and the main evenner-bar A, as set forth.

2. The improved draft-equalizer consisting of the main evenner-bar A, the lever C, secured thereto, the angle-irons F at one end of the said lever, a pair of whiffletrees connected to the angle-irons and a single whiffletree connected to the end of the lever, the evenner-bar I, secured to and extending from the angle-irons, and the braces extending between the evenner-bars A and I, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JOHN BUTLER.

Witnesses:

J. A. KING,
HANS EPLERS.