

No. 751,004.

PATENTED FEB. 2, 1904.

P. N. PETERSEN.  
FOUR HORSE EQUALIZER.  
APPLICATION FILED JULY 6, 1903.

NO MODEL.

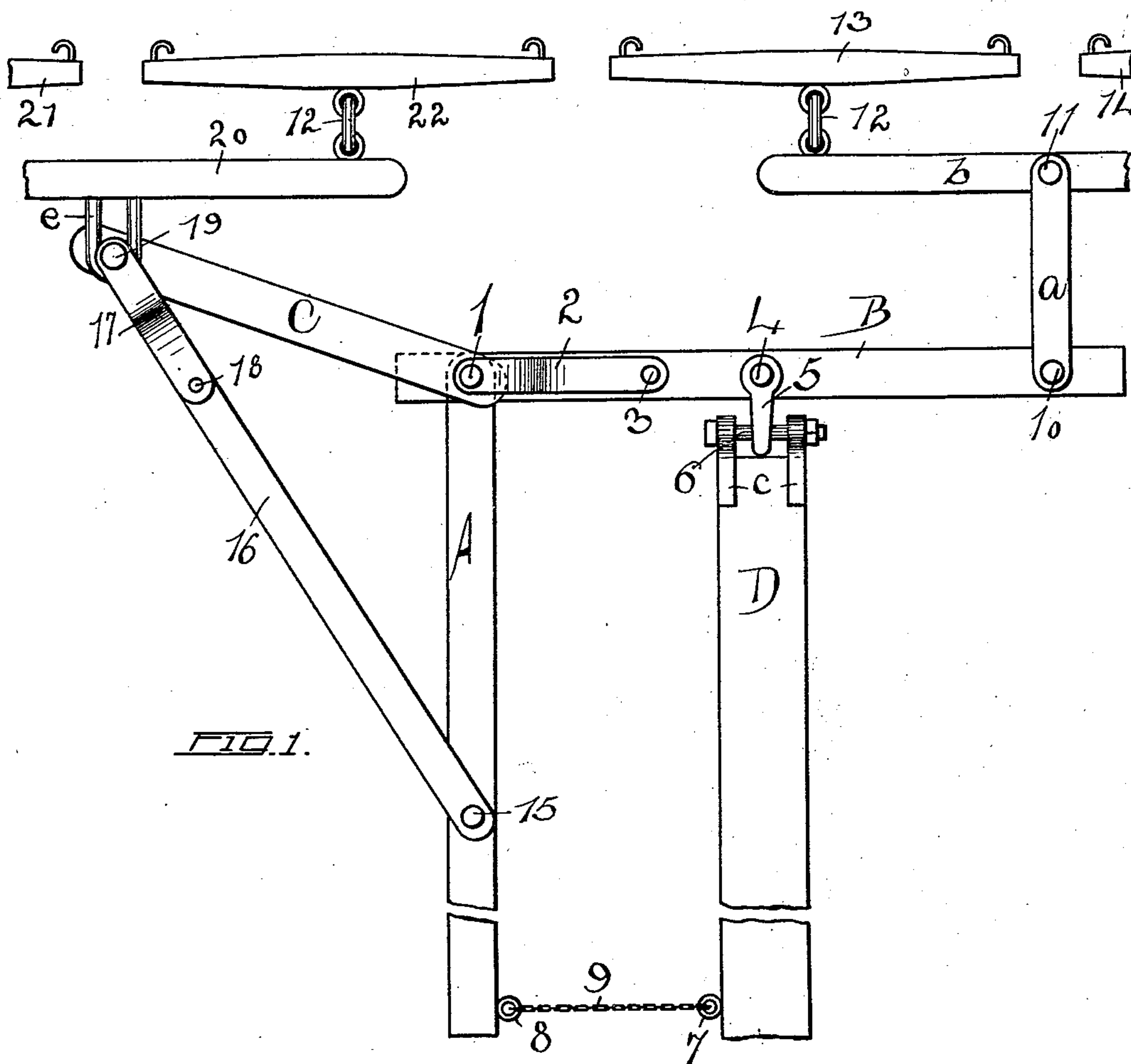


FIG. 1.

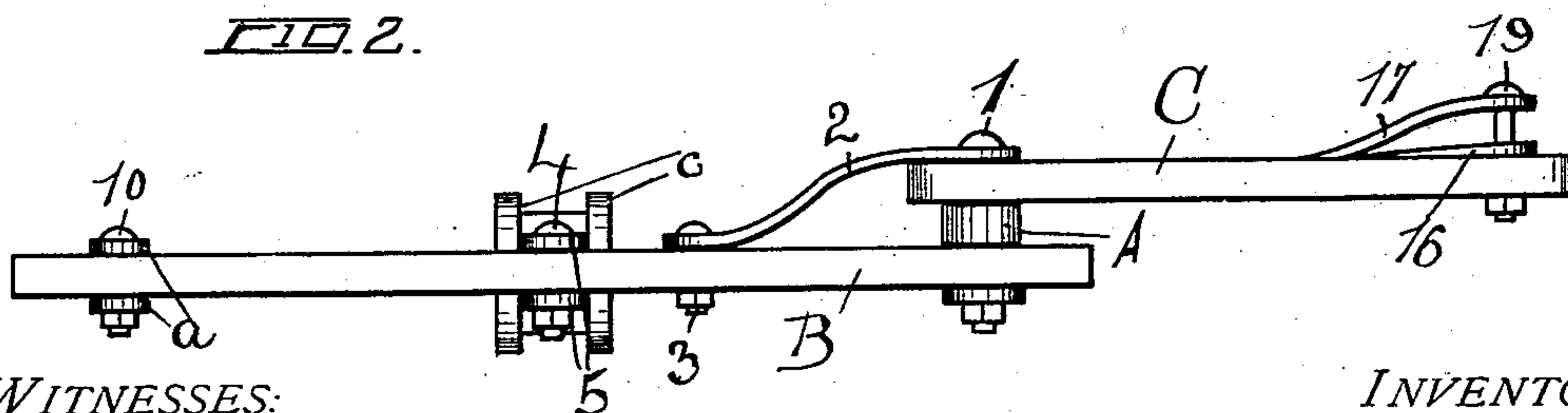


FIG. 2.

WITNESSES:

*J. G. Larson.*  
*Wm. Krech.*

BY,

INVENTOR:

*Peter N. Petersen*  
*Wm. W. Sues.* Attorney.

# UNITED STATES PATENT OFFICE.

PETER N. PETERSEN, OF HERMAN, NEBRASKA.

## FOUR-HORSE EQUALIZER.

SPECIFICATION forming part of Letters Patent No. 751,004, dated February 2, 1904.

Application filed July 6, 1903. Serial No. 164,396. (No model.)

*To all whom it may concern:*

Be it known that I, PETER N. PETERSEN, residing at Herman, in the county of Washington and State of Nebraska, have invented certain  
5 useful Improvements in Four-Horse Equalizers; and I do hereby declare that the following is 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, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to a new and novel improvement in four-horse equalizers.

15 The aim of my invention is to provide an equalizer which shall be noticeable because of its simplicity and cheapness of construction and may be easily changed into a five-horse equalizer, as will be described more fully hereinafter and finally pointed out in the claim.

20 In the accompanying drawings I have shown in Figure 1 a top view with portions removed of my four-horse equalizer as attached to a plow, while Fig. 2 shows a front elevation of  
25 my four-horse equalizer.

The aim of my invention is to provide a four-horse equalizer so arranged that the same may be readily secured to an ordinary plow-beam to conveniently distribute the draft.

30 In the accompanying drawings I have shown in Fig. 1 a top view of the forward broken portion of a plow-beam D, provided with the clevis-ears c, supporting the bolt 6, holding the clevis 5. The clevis 5 supports a pin 4,  
35 pivotally holding the main lever B, which is preferably a wooden bar of a suitable length provided near each end with a pin, (marked 1 and 10.) Extending from the pin 10 are the  
40 links a, secured to the doubletree b by means of the pin 11, and by means of the suitable links 12 two trees 13 and 14 are secured to the doubletree.

The pin 1 is supported by means of the bracket 2, secured by the bolt 3, and pivotally held upon the pin 1 is the trail-bar A, as  
45 is shown in Fig. 1. At its rear end this trail-bar A is provided with an ear 8, receiving a chain 9, which chain is secured to an ear 7, fastened to the plow-beam D, so that this trail-  
50 bar A moves backward and forward on being actuated by the main lever B.

Interposed between the trail-bar A and the

bracket 2 is the stub-lever C, provided at the end with the pin 19, adapted to receive the link e of the doubletree 20, the pin 19 further being supported by means of the bracket  
55 17, secured by the rivet 18 to the connecting-bar 16, which at the opposite end is secured, by means of the pin 15, to the trail-bar A, as shown. 60

Secured to the doubletree 20 by means of suitable links 12 are the singletrees 21 and 22, as shown.

My four-horse equalizer may be made of any suitable size and material, and when properly constructed the operation is as follows:  
65 The draft upon the doubletree 20 has a tendency to carry the trail-bar A outward; but this trail-bar is movably secured to the plow-beam D by means of the chain 9 and responds  
70 to the movement of the main lever B, so that as the horses draw upon the doubletrees the main lever B is pivotally actuated, as is also the stub-lever C and the connected trail-bar, so that the draft is equally distributed. In  
75 changing the position of the pin 1 and lengthening the stub-lever C a tripletree may be secured to the pin 19 to provide a five-horse equalizer.

Now, having thus described my said invention, what I claim as new, and desire to secure  
80 by United States Letters Patent, is—

An equalizer comprising the combination of the following instrumentalities: to wit, a main lever, a link projecting from one end of said  
85 main lever adapted to receive a doubletree, a trail-bar pivotally extending at right angles from said main lever, a stub-lever pivotally secured to said main lever and projecting slightly forward, a connecting-bar extending from the  
90 outer end of said stub-lever and secured to said trail-bar, a pliable connection extending from the end of said trail-bar and adapted to be secured to a plow-beam, and a doubletree  
95 secured to the end of said stub-lever, said main lever being adapted to be pivotally secured to a plow-beam all arranged substantially as and for the purpose set forth.

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

PETER N. PETERSEN.

Witnesses:

CHAS. P. CHRISTENSEN,  
THORVALD HANSEN.