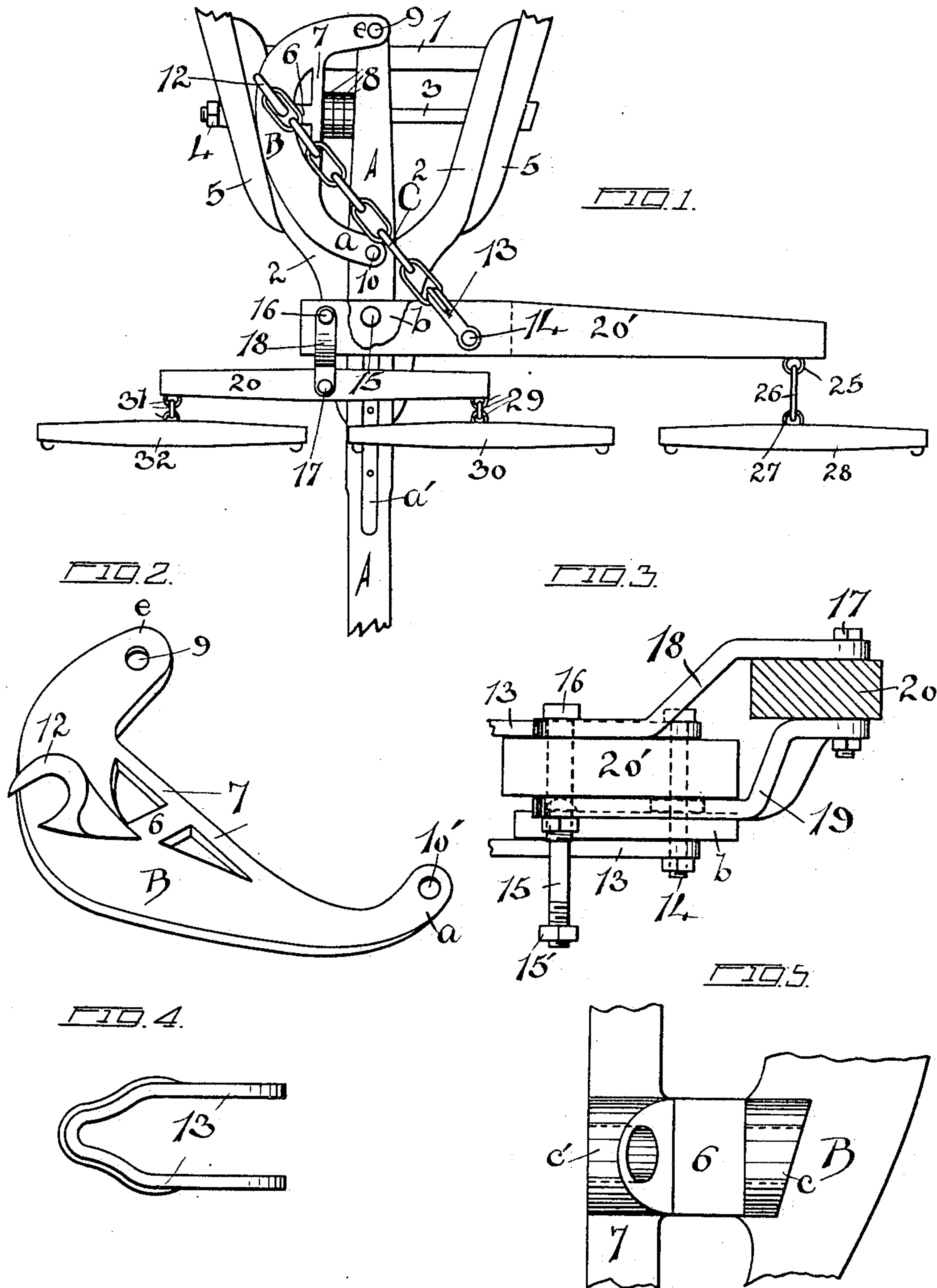


No. 758,745.

PATENTED MAY 3, 1904.

J. W. GAMBLE.
THREE HORSE EVENER.
APPLICATION FILED OCT. 29, 1902.

NO MODEL.



WITNESSES:

F. G. Larson.

W. C. Windsor.

INVENTOR:

Joseph W. Gamble

BY

Esro W. Sues.
Attorney.

UNITED STATES PATENT OFFICE.

JOSEPH W. GAMBLE, OF OMAHA, NEBRASKA.

THREE-HORSE EVENER.

SPECIFICATION forming part of Letters Patent No. 758,745, dated May 3, 1904.

Application filed October 29, 1902. Serial No. 129,241. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH W. GAMBLE, residing at Omaha, in the county of Douglas and State of Nebraska, have invented certain useful Improvements in Three-Horse Eveners; 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 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 useful improvement in three-horse equalizers.

The aim of my invention is to provide the combination of an equalizer with a wagon-tongue so constructed that two horses will be upon one side of the tongue and one upon the other, the equalizer being so constructed that the load will be equally distributed between the three draft-animals, so that the tongue will be advanced in a straight line.

In the accompanying drawings I have shown in Figure 1 a top view, with portions removed, of a wagon-tongue provided with my three-horse equalizer. Fig. 2 shows a perspective view of the spool-bracket as used in my invention. Fig. 3 shows a sectional view disclosing the arrangement of the connection of the doubletree and one of the swingletrees. Fig. 4 discloses a side view of the clevis, while Fig. 5 shows a broken view of the spool-bracket as used in my invention.

The object of my invention is to provide a wagon or such other implement or vehicle as have tongues with a three-horse equalizer so constructed that two horses are upon one side of the tongue and one upon the other.

In constructing my equalizer I employ a doubletree 20', which near one end is provided with an eyebolt 25, which by means of a link 26 works into an eyebolt 27, secured in a swingletree 28. Near the remaining end this doubletree 20' is perforated, so as to receive the bolt 16, while approximately centrally is secured the bolt 14. Extending from the bolt 16 is the upper clevis 18, which is bowed slightly upward to receive the bolt 17, while from below the doubletree 20' projects the lower clevis 19, also secured to the bolt

17, and between these clevises 18 and 19 is held the doubletree 20', as is shown in Figs. 1 and 3, which doubletree 20', by means of the connecting-links 29 and 31, is provided with the swingletrees 30 and 32. Secured to the bolt 14, passing through the main doubletree 20', is the hinge-plate *b*, which at its remaining end is pivotally secured to a bolt 15, which bolt in turn passes through the tongue A of the wagon or implement. From this it will be seen that I secure to the tongue A the bolt 15, and to this bolt 15 is pivotally secured the hinge-plate *b*. This hinge-plate in turn is provided with the bolt 14, which pivotally supports the main doubletree 20', to which is secured at one end a swingletree 28 and at the other end the auxiliary doubletree 20, secured by means of the clevises 18 and 19 and the bolts 16 and 17, this auxiliary doubletree being provided with the swingletrees 30 and 32.

The tongue A is provided with the usual tongue-hounds 2, which are secured to the usual wagon-hounds 5 by means of the governor-pin 3, held by means of the nut 4. Secured near the rear end of the tongue A by means of the bolt 9 is the rear arm *e* of the spool-bracket B, as is shown in Figs. 1 and 2. The forward arm *a* of this spool-bracket is secured to the tongue by means of the bolt 10, these arms *a* and *e* being provided with the perforations 9' and 10', adapted to receive the bolts 9 and 10, as disclosed. Above this spool-bracket is provided with the hook 12, while below and extending transversely across the bracket are the spools *c* and *c'*, as shown in Fig. 5, where a bottom view of the spool-bracket is disclosed.

In order to decrease the weight of the spool-bracket B, which is preferably cast in iron, a portion of the material is removed, so that this bracket is provided with the bar 7 and the intermediate transverse portion 6, immediately adjacent which the spools *c* and *c'* are secured, as disclosed.

Now in securing the tongue A by means of the governor-pin this governor-pin 3 is passed through the rear end of the tongue A, thence through one or more washers 8, interposed between the tongue and the spool *c'*, thence through the spools *c'* and *c*, and through the

tongue and wagon hounds 2 and 5, as shown in Fig. 1. Extending from the hook 12 is the draft-chain C, secured to the clevis 13, fastened to the pin 14, as shown.

5 The tongue A, in order to strengthen the same, is provided with the reinforcing metallic strap *a'*.

From the construction as shown it will be noticed that the entire draft is placed upon the hook 12, which, by means of the draft-chain C, is secured approximately centrally to the main doubletree 20', which doubletree in turn is pivotally secured by means of the hinge-plate *b*, fastened to the tongue. This construction enables the three-horse even-
15 being secured to the tongue in such a manner that one horse travels upon one side of the tongue and two upon the opposite side, and between the three draft-animals the load is
20 equally distributed in such a manner that the tongue is advanced straight to the front, this construction insuring the load being drawn from the governor-pin.

These equalizers are made in various sizes to meet the different requirements and are sold without the tongue, being adapted to be secured to any ordinary wagon or implement tongue. The tongue is secured to the tongue-hounds 2 by the usual bar 1, as shown in Fig. 1.

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

1. In a three-horse equalizer, the combina-

tion of the following instrumentalities, to-wit: a doubletree, a swingletree secured to one end 35 of said doubletree, an auxiliary doubletree secured to said first-mentioned doubletree at the remaining end, a hinge-plate pivotally secured to said first-mentioned doubletree near one end, said hinge-plate at its remaining end being pivotally secured to a suitable tongue, a suitably-supported governor-pin, and an approximately C-shaped bracket secured to the vehicle-tongue, two perforated spools below said bracket, aforesaid governor-pin passing 45 through said spools, and means to connect said first-mentioned doubletree to said bracket substantially as and for the purpose set forth.

2. The combination with a main doubletree, of a swingletree secured to one end of said doubletree, an auxiliary doubletree secured to the opposite end of said main doubletree, swingle-trees secured to said doubletree, a hinge-plate pivotally secured to said main doubletree, a supporting-pin projecting from said hinge-plate, a chain projecting from said main doubletree, a bracket secured to said chain, and means to secure said bracket to the wagon-tongue and the governor-pin of the wagon-tongue as and for the purpose set forth. 60

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

JOSEPH W. GAMBLE.

Witnesses:

GEORGE W. SUES,

WILLIAM E. WINDSOR.