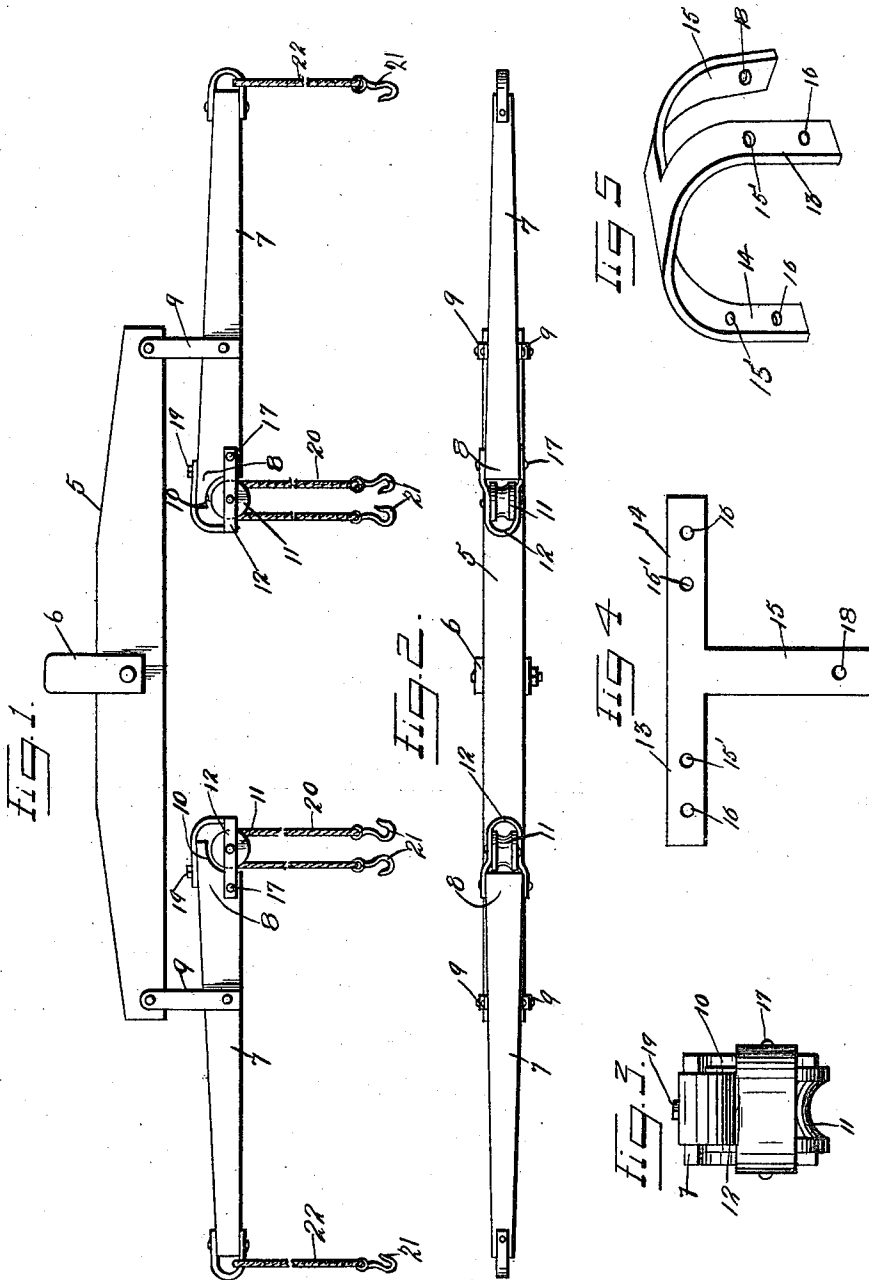


W. L. CAREY.
THREE HORSE EQUALIZER.
APPLICATION FILED FEB. 16, 1910.

976,149.

Patented Nov. 22, 1910.



Witnesses
J. E. Storkel,

Francis Boyle.

Inventor
WILLIAM L. CAREY.

By *Charles Chandler*

Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM L. CAREY, OF UPLAND, INDIANA.

THREE-HORSE EQUALIZER.

976,149.

Specification of Letters Patent.

Patented Nov. 22, 1910.

Application filed February 16, 1910. Serial No. 544,221.

To all whom it may concern:

Be it known that I, WILLIAM L. CAREY, a citizen of the United States, residing at Upland, in the county of Grant, State of Indiana, have invented certain new and useful Improvements in Three-Horse 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 make and use the same.

This invention relates to draft eveners of that general class in which the inner ends of the swingle-trees are equipped with pulleys over which cords are trained that connect the traces of the middle animal with the adjacent traces of the outer animals.

The object of this invention is to simplify and at the same time provide a stronger pulley supporting end for the swingle-trees than heretofore.

The novelty of this invention resides in the peculiar formation of the pulley supporting ends of the swingle-trees which construction will hereinafter be fully described and claimed.

In the accompanying drawing forming part of this specification, Figure 1 is a plan view of the draft evener constructed in accordance with my invention. Fig. 2 is a front elevation of the draft evener. Fig. 3 is an enlarged end view of one of the swingle-trees. Fig. 4 is a plan view showing the blank from which the pulley stirrup is formed. Fig. 5 is a detail perspective view of the pulley stirrup.

Referring to the parts by their reference characters, 5 designates a double-tree having secured to its intermediate portion a clevis 6 or similar means for fastening the double-tree to a vehicle or agricultural implement.

The swingle-trees comprising the subject matter of this invention each consist of a tapered body 7 preferably rectangular in contour and cross section, and equipped adjacent its butt or large end 8 with a clevis 9 the legs of which are secured to the top and bottom faces of the double-tree so that the swingle-tree is maintained in the plane of the double-tree. The butt end of the swingle-tree is provided in its end face with an arcuate rabbet 10 for the reception of a pulley 11.

For mounting the pulley 11, I employ a stirrup 12 which is formed preferably from

a single blank of material, this blank being preferably T shaped in outline as shown in Fig. 4. To form the stirrup the legs 13 and 14 are bent substantially parallel and the leg 15 bent so as to form an arch between the planes of the parallel legs as shown in Fig. 5. The parallel legs 13 and 14 are provided with alined openings 15' to receive the ends of the pulley arbor and a plurality of openings 16 are formed adjacent the extremities of the legs to receive a bolt 17 which extends therethrough and through the butt end of the swingle-tree. An opening 18 is formed in the arched leg through which and the rear face of the swingle-tree a bolt or similar fastener 19 is inserted. A flexible cord, chain or similar connector 20 is trained over the pulley and is provided at its extremities with hooks 21 to engage the traces of the draft animals. The outer ends of the swingle-trees are equipped with chains or cords 22 that secure the outer traces of the outer draft animals. It will now be noted that by this arrangement of expanding the end of the swingle-tree and mounting the pulley to rotate in a rabbet in said end, that the securing bolts of the pulley stirrup are so spaced apart as to not weaken the end of the swingle-tree as in swingle-trees of this character hitherto constructed in which a plurality of securing bolts are driven through the end of the swingle-tree so close together as to appreciably weaken the same.

It will further be noted that the arched leg 15 in the stirrup performs the function of a guard to prevent the cord 20 from working backward out of engagement with the pulley, the arcuate rabbet in the end of the swingle-tree coöperating with the leg 15 in performing this function.

From the foregoing description taken in connection with the accompanying drawing, it is thought that the construction and operation of my invention will be easily understood without a more extended explanation, it being understood that various changes in the form and details of my construction may be made within the scope of the appended claim.

What is claimed is:

A draft equalizer including a double-tree, and a pair of swingle-trees secured adjacent the opposite ends of the double-tree; each swingle-tree having an arcuate rabbet

in its inner end face, a stirrup having spaced outer legs and an arcuate intermediate leg spanning said rabbet, a pulley carried by said stirrup fitting in said rabbet,
5 and a flexible connecting element trained over the pulley and terminating in trace-engaging means.

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

WILLIAM L. CAREY.

Witnesses:

ELZONA MYERS,
JOHN MYERS.