

No. 698,192.

Patented Apr. 22, 1902.

W. FERGUSON.  
WHIFFLETREE CLIP.

(Application filed Nov. 26, 1901.)

(No Model.)

Fig 1.

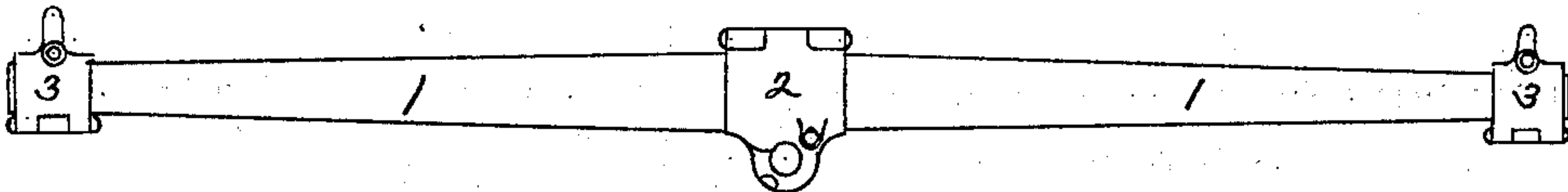


Fig 2.

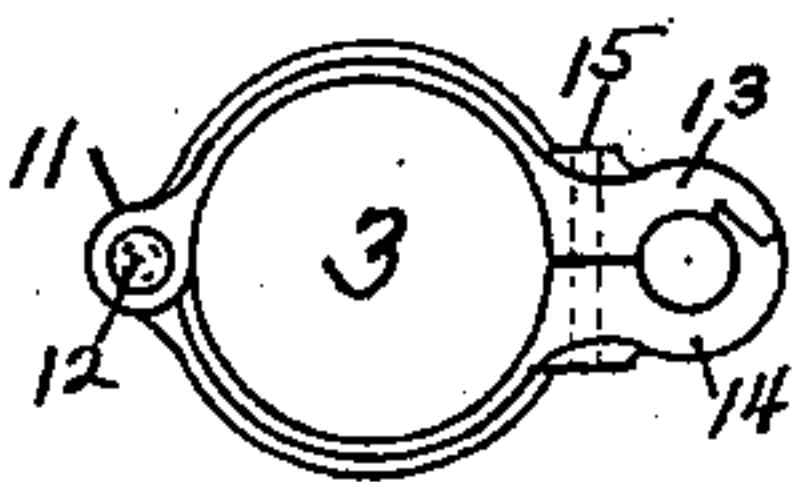


Fig 4.

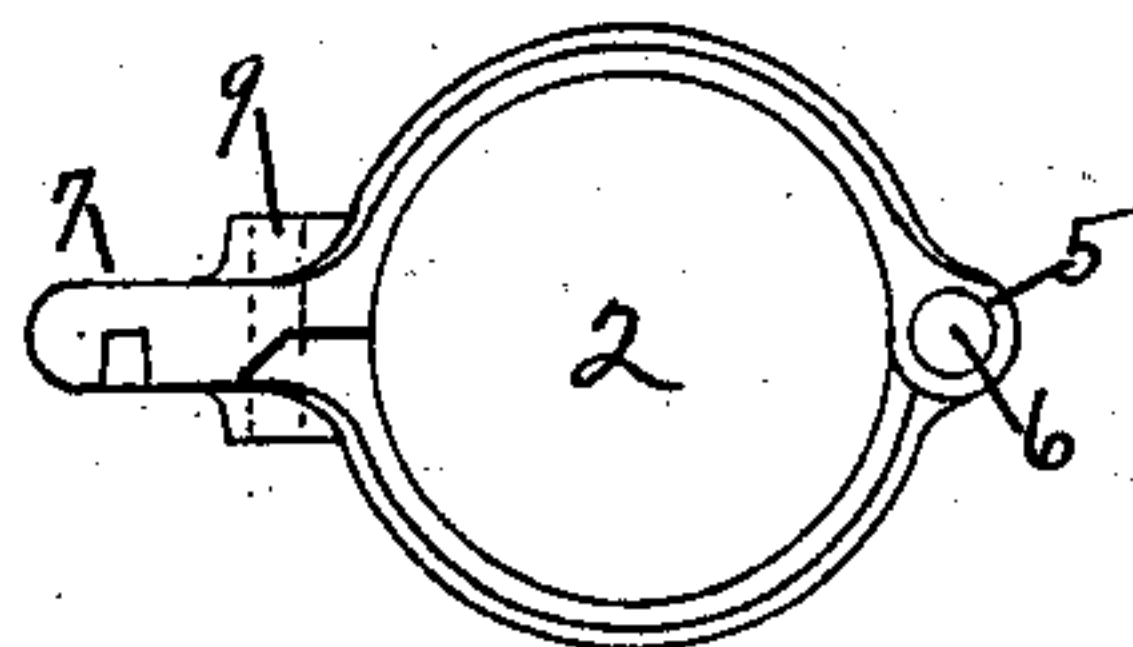


Fig 3.

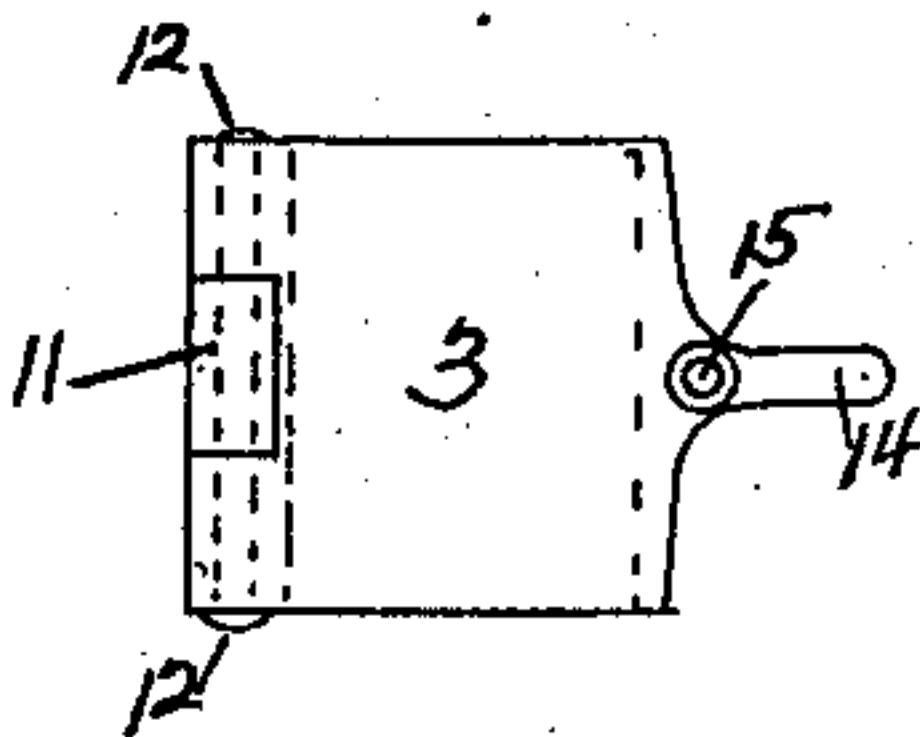


Fig 5.

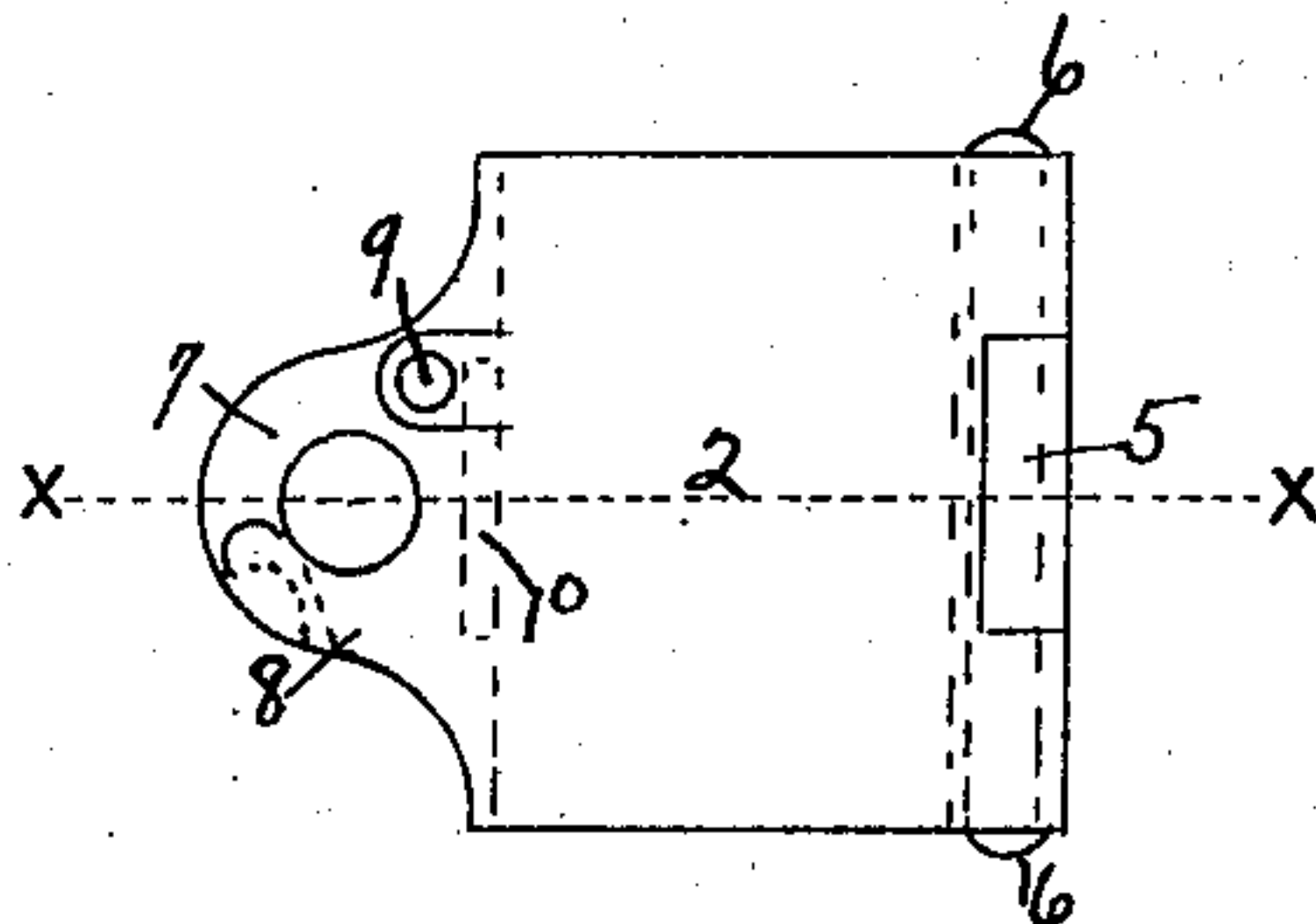


Fig 7.

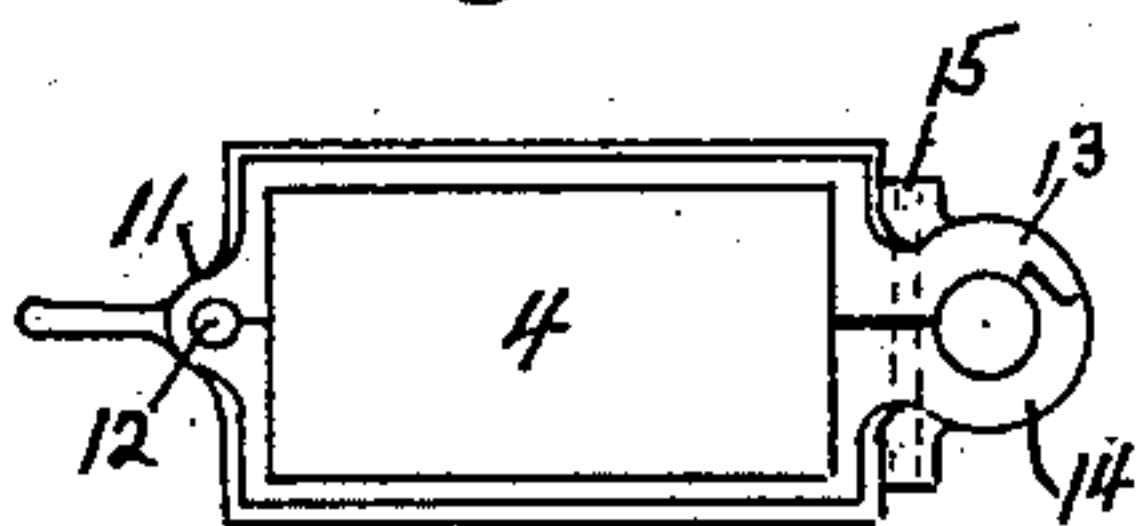


Fig 6.

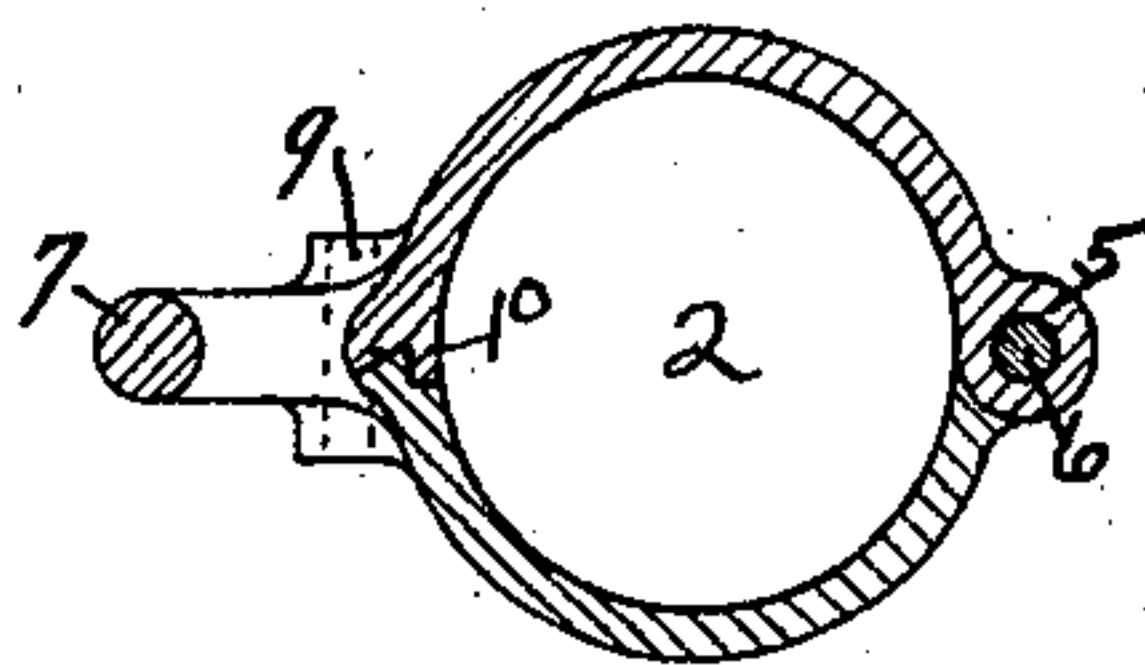
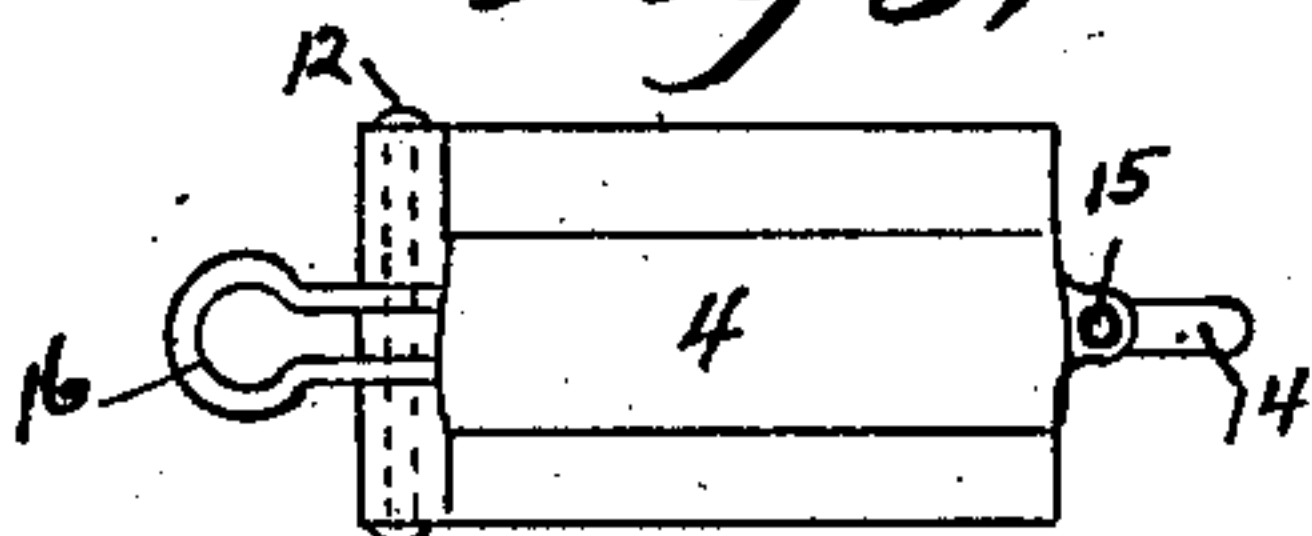


Fig 8.



WITNESSES:

H. W. Stevenson  
Geo. W. Morton

INVENTOR

William Ferguson

BY his ATTORNEY

H. W. Stevenson



# UNITED STATES PATENT OFFICE.

WILLIAM FERGUSON, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO ANDREW PAFENBACH, OF PITTSBURG, PENNSYLVANIA.

## WHIFFLETREE-CLIP.

SPECIFICATION forming part of Letters Patent No. 698,192, dated April 22, 1902.

Application filed November 26, 1901. Serial No. 83,689. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM FERGUSON, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Whiffletree-Clips; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to certain new and useful improvements in whiffletree-clips to be attached to single and double trees for use on wagons, &c., and may be designated as a "combination hinge-clamp."

The idea of my invention is to provide a simple, cheap, and practical means of adjusting the single and double trees to vehicles without the necessity of going to a blacksmith, as anybody can put on and take off my invention without any practical experience.

In the accompanying drawings, forming a part of this specification, Figure 1 is a view of a singletree having my invention adjusted thereon. Fig. 2 is an end view of the small-sized hinge-clip used on the ends of the singletree. Fig. 3 is a side view of the same. Fig. 4 is an end view of the large-sized hinge-clip used in the center of the singletree. Fig. 5 is a side view of the same. Fig. 6 is a sectional view of the same, taken on the line *xx* of Fig. 5. Fig. 7 is an end view of a hinge used on the square of the doubletree. Fig. 8 is a side view of the same, showing a staple in position to engage with the stay-chain hook.

In the accompanying drawings the numeral 1 designates the singletree.

2 is the center clip. 3 represents the end clips thereon.

4 is the square clip for doubletree attachment.

5 is the hinge portion of the clip 2, and 6 is a stay pin or bolt.

7 and 8 are the connecting portions of the clip, forming the eye. This eye is in two parts and interlock when brought together. When the clip is open, it divides into two sections, and these operate on a hinge 5 on the pin 6.

When the two sections 7 and 8 are brought together and interlock, a screw 9 is put into the opening, as seen in Fig. 5. This will hold the two sections firmly together and make a clip complete, as if made in one piece. Besides the screw can be easily taken out and the clip removed. On the inside of one of the sections of the hinge, at the point of joining, I form a flange 10 and on the other section a corresponding recess to receive the same. This is to strengthen the hinged clip when the strain from pulling is on the eye.

In Fig. 2 the numeral 11 is the hinge part of the smaller-sized clip, and 12 is the pin used therein. 13 is one interlocking section of the eye, and 14 is the other section. 15 is the screw that holds these sections together.

The clip shown in Figs. 7 and 8 is made practically like the rounded one seen in Fig. 4, only it is of a square or oblong form, and this one I design for the doubletree attachment to the singletree. 16 is the staple or link for attachment of the stay-chain.

It will be seen that the open clip thus made and constructed will be much easier to affix to the singletree at the ends and center, also to the doubletree, as aforesaid. It will also be observed that the bolts 9 and 15, respectively, are to the rear of the bearing-surface of the respective eyes when a pulling strain is exerted on the clamp or clip, and consequently there is no strain on the bolt.

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

A whiffletree-clip, comprising two sections hinged together at their rear ends and having interlocking portions at their front ends to form a link, and a bolt for securing the interlocking ends together, said bolt being to the rear of the bearing-surface of the eye, substantially as set forth.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses.

WILLIAM FERGUSON.

Witnesses:

ANDREW PAFENBACH,

WILLIAM HOWARD PAFENBACH.