

(No Model.)

C. J. MINTON.
DOUBLETREE FASTENER.

No. 593,362.

Patented Nov. 9, 1897.

Fig. 1

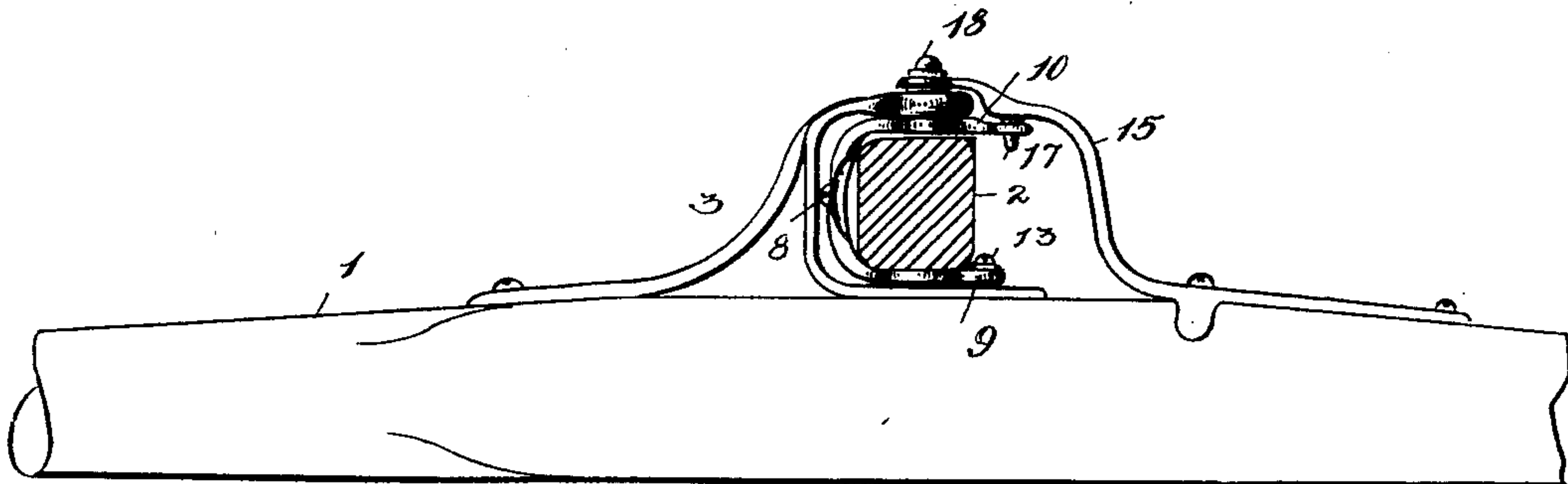


Fig. 2

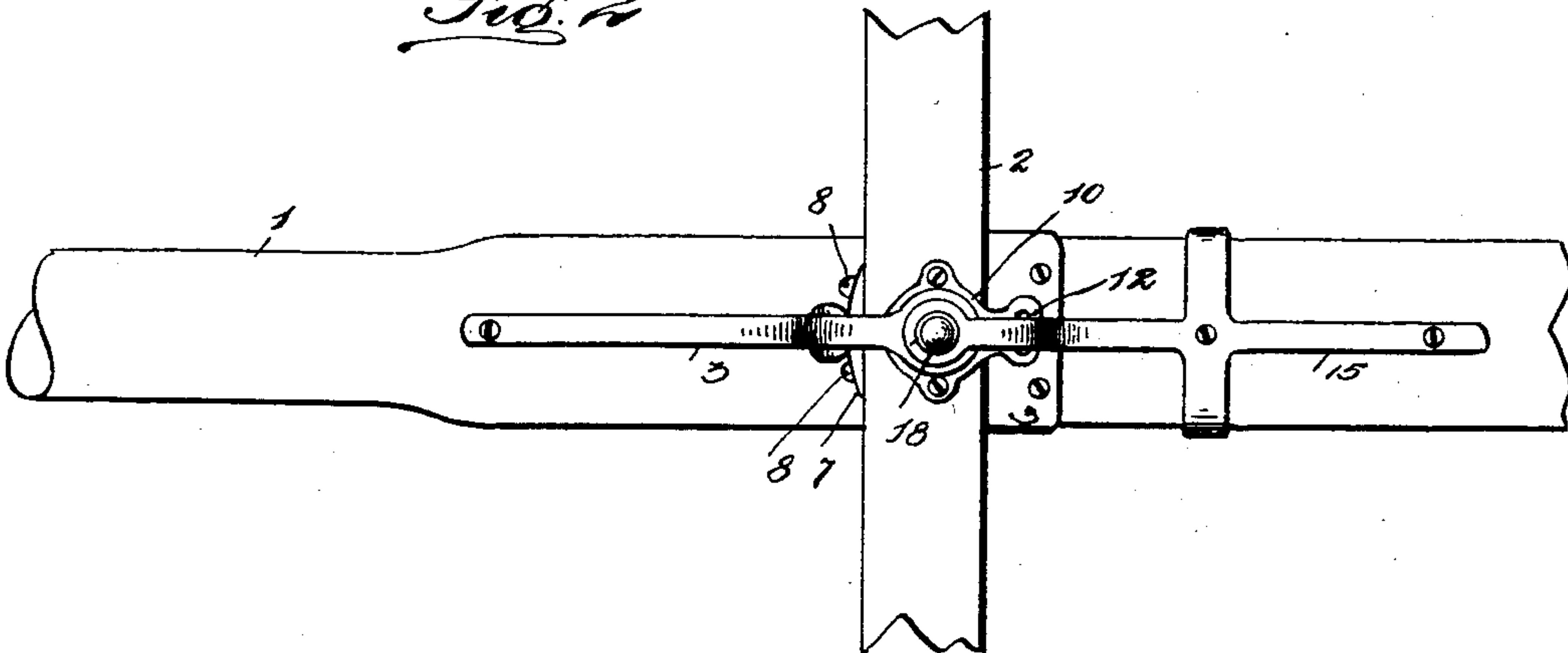
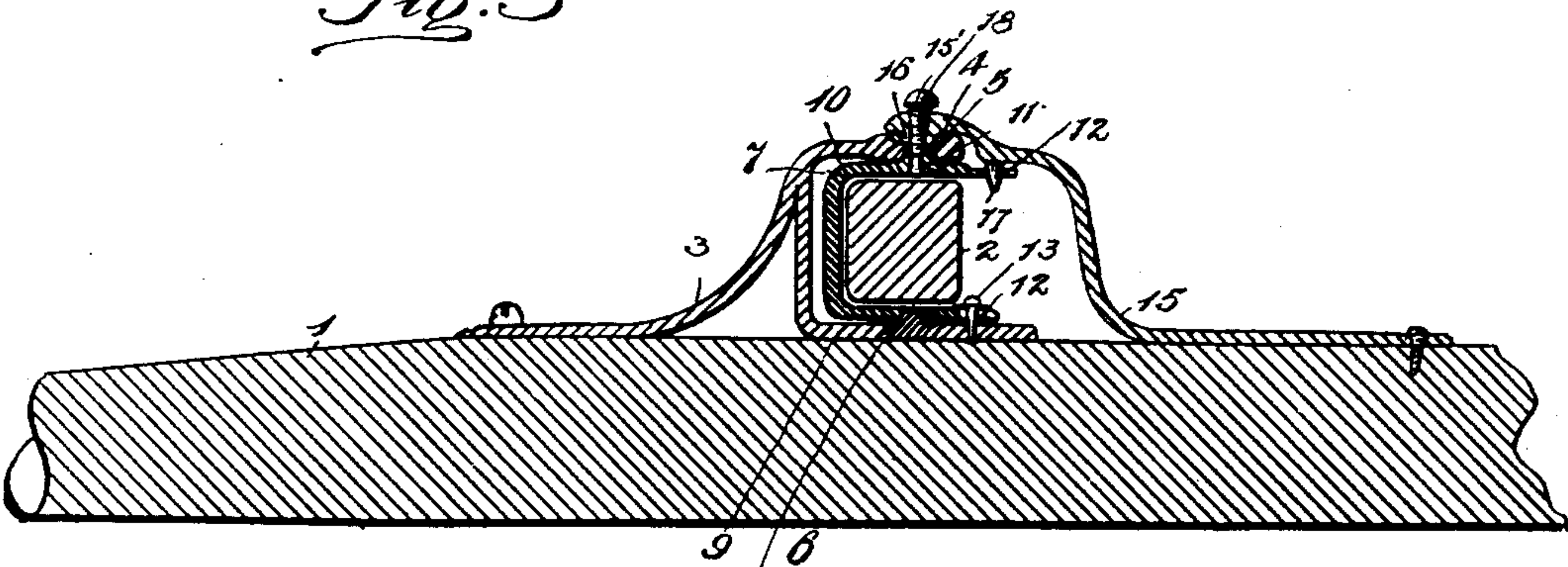


Fig. 3



Witnesses

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CALVIN J. MINTON, OF MILES POINT, MISSOURI.

DOUBLETREE-FASTENER.

SPECIFICATION forming part of Letters Patent No. 593,362, dated November 9, 1897.

Application filed April 6, 1897. Serial No. 630,997. (No model.)

To all whom it may concern:

Be it known that I, CALVIN J. MINTON, a citizen of the United States, residing at Miles Point, in the county of Carroll and State of Missouri, have invented certain new and useful Improvements in Doubletree-Fasteners; and I do 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.

My invention relates to a doubletree-fastener, and has for its object to provide a device of this character by means of which the usual bolt used for pivoting the doubletree to the tongue or pole may be dispensed with.

A further object is to provide means to prevent the twisting or canting sidewise of the doubletree as well as to provide means for limiting its swinging motion in order to prevent its ends swinging back into engagement with the wheels of the vehicle.

With these objects in view the invention consists of certain features of construction and combination of parts, which will be hereinafter fully set forth and claimed.

In the accompanying drawings, Figure 1 is a side view of a pole, showing a doubletree attached thereto by my improved fastener. Fig. 2 is a top plan view, and Fig. 3 is a longitudinal vertical sectional view.

In the drawings, 1 denotes the pole of a vehicle, and 2 the doubletree.

3 denotes the forward brace, which is attached to the pole in any suitable manner and which projects upwardly and rearwardly and is formed with an annular recess 4 and a central aperture 5. From the head this brace extends downwardly and then rearwardly and is formed with a conical boss 6.

7 denotes a clip, which is secured to the front end of the doubletree by screws 8 and which is provided with parallel sections 9 and 10, the lower one 9 of which is provided with a central recess adapted to the boss of the clip and the upper one 10 of which is provided with a stud which extends upwardly through the hole in the head of the forward brace and is provided with a screw-threaded aperture 11. The rear extremities of these parallel arms of

the clip are formed with curved slots 12. A bolt 13 passes through the slot in the lower arm and serves to hold the clip in position.

15 denotes the rear brace, which is clipped or otherwise secured to the pole near its rear end and extends upwardly and is provided with a perforated head 15, having a conical boss 16, which fits within the recess of the head of the forward brace. To the rear of this head is formed a downwardly-extending pin 17, which passes through the curved slot in the upper parallel end of the clip and acts as a guide to limit the movement of the doubletree.

18 denotes a screw which is inserted through the heads of the two braces and into the upwardly-extended boss of the clip and by means of which the parts are held firmly together.

From the foregoing description, taken in connection with the accompanying drawings, the operation and advantages of the invention will be readily understood without requiring further explanation. By this employment the difficulty heretofore experienced in having the doubletree swing back against the wheels of the vehicle, or in having them twist or strain to one side, is entirely overcome. By its employment the ordinary pivot-bolt is dispensed with, thus greatly strengthening the parts and reducing to a minimum the liability of either the doubletree or the pole being split or broken at the point made weak by the passage of the ordinary pivot-bolt.

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

The combination with the pole and doubletree of a vehicle, of the forward brace extending upwardly and provided with a head having a central opening and a recess therein, and further formed with a downwardly-projecting portion provided with an upwardly-extending conical boss, a clip secured to the doubletree and having two parallel arms, each of which is formed with two curved stops, and one of which is formed with a recess to receive the upwardly-extending boss of the brace, and the other of which is provided with an upwardly-extending boss having a central

screw-threaded aperture, a rear brace secured to the pole and provided with a head having a downwardly-extending boss adapted to the recess in the head of the forward brace, and
5 also provided with a pin to engage the curved slot in the upper member of the clip, a screw passed through the heads of said braces and into the screw-threaded aperture of the clip,

and a bolt passed through the slot in the lower member of said clip, substantially as set forth. 10

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

CALVIN J. MINTON.

Witnesses:

JAMES H. FORBES,

FRED LUEDERS.