

No. 871,723.

PATENTED NOV. 19, 1907.

C. J. MINTON.
DOUBLETREE FASTENER.
APPLICATION FILED DEC. 31, 1906.

Fig. 1—

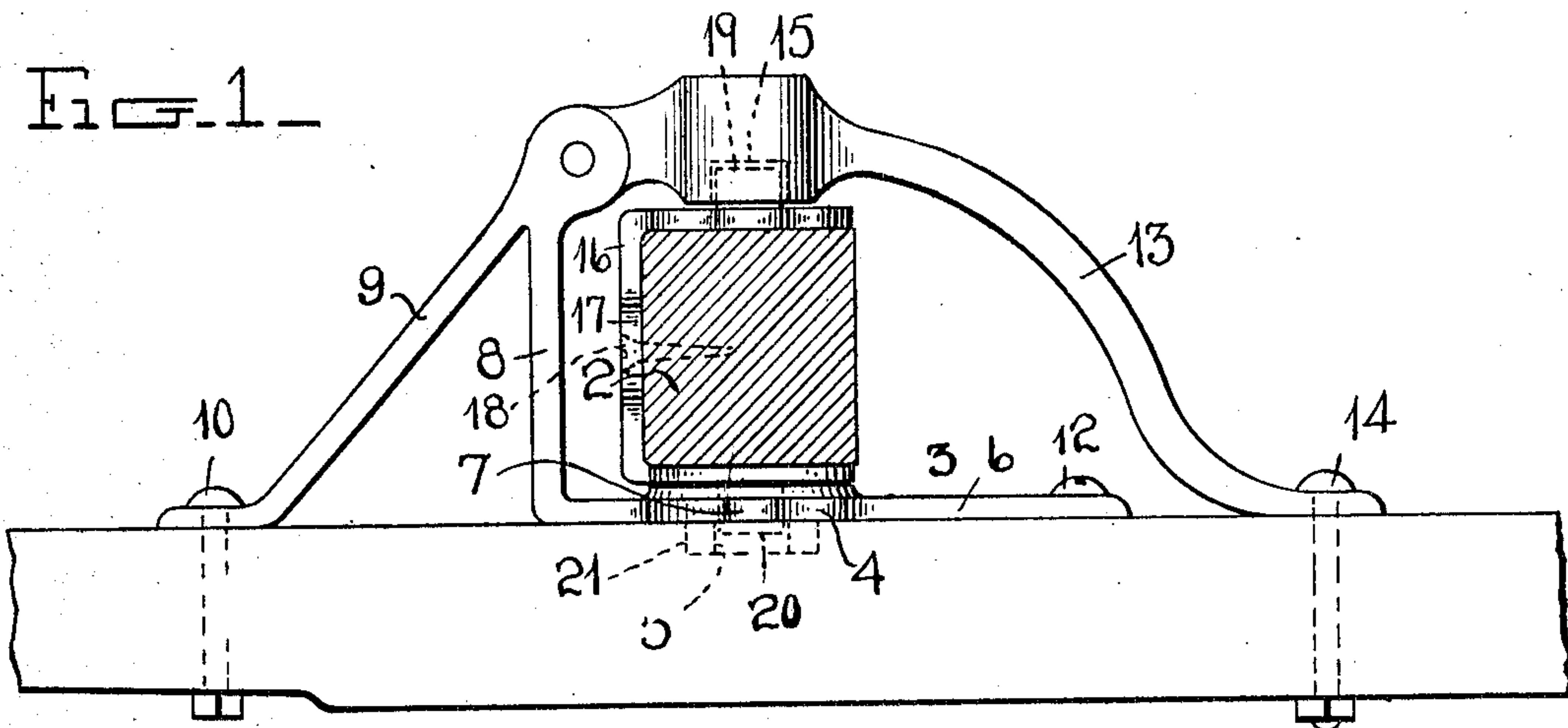


Fig. 2—

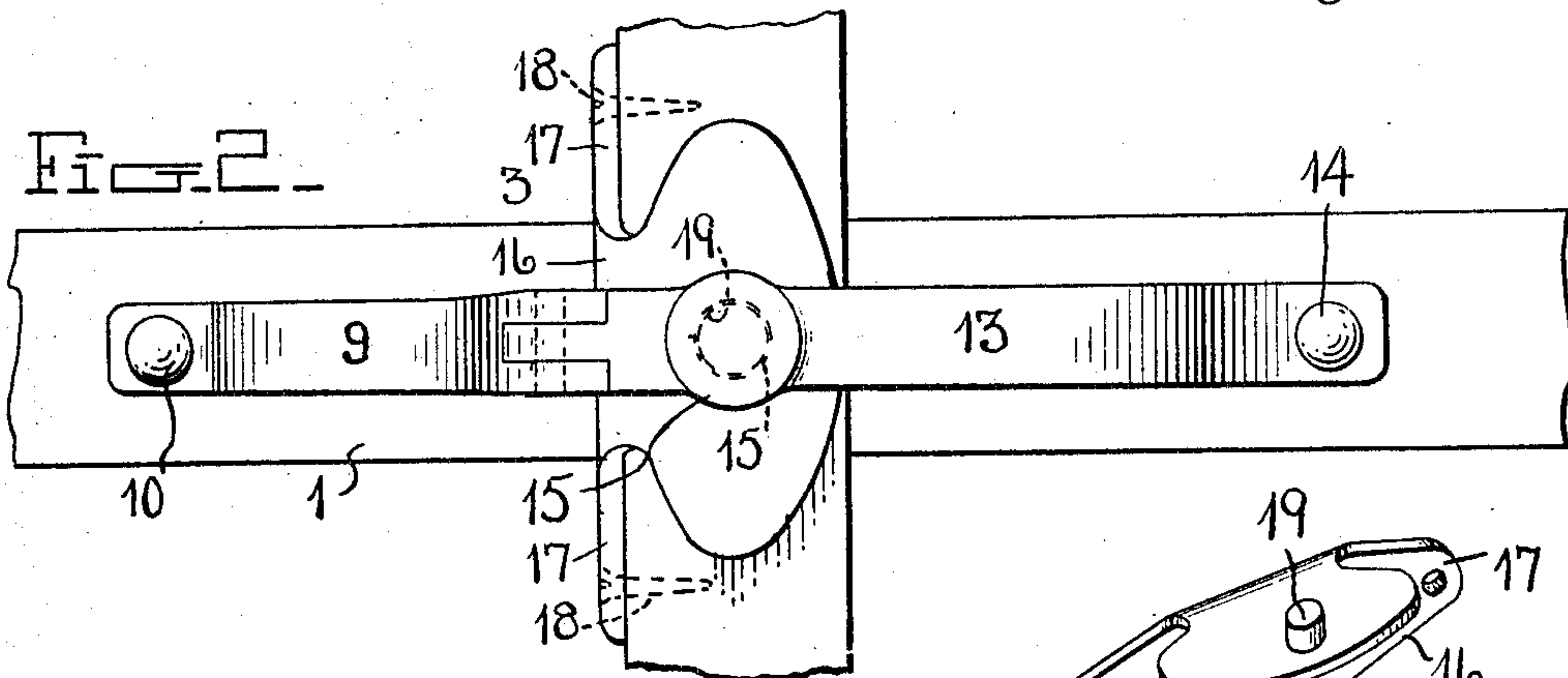


Fig. 3—

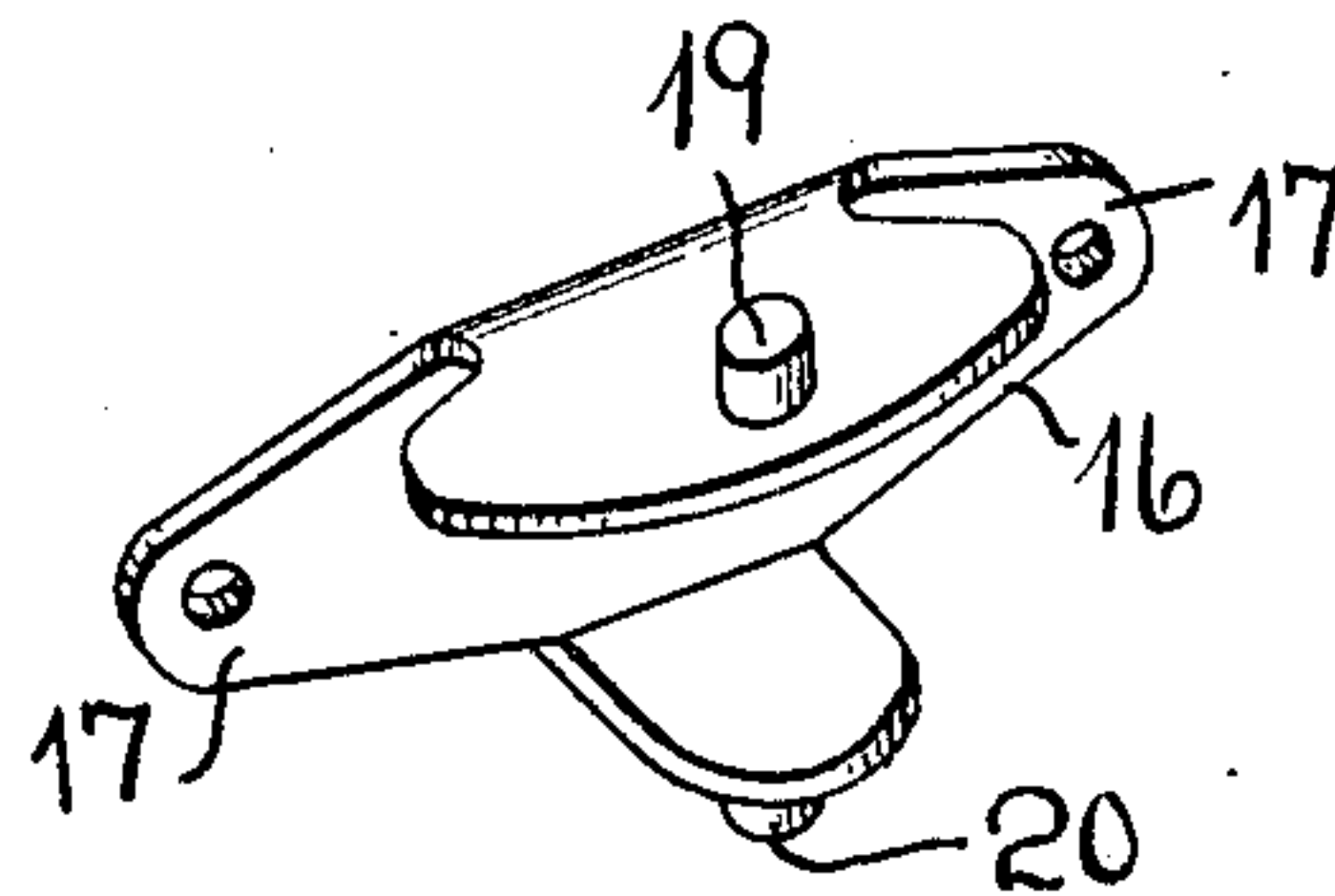
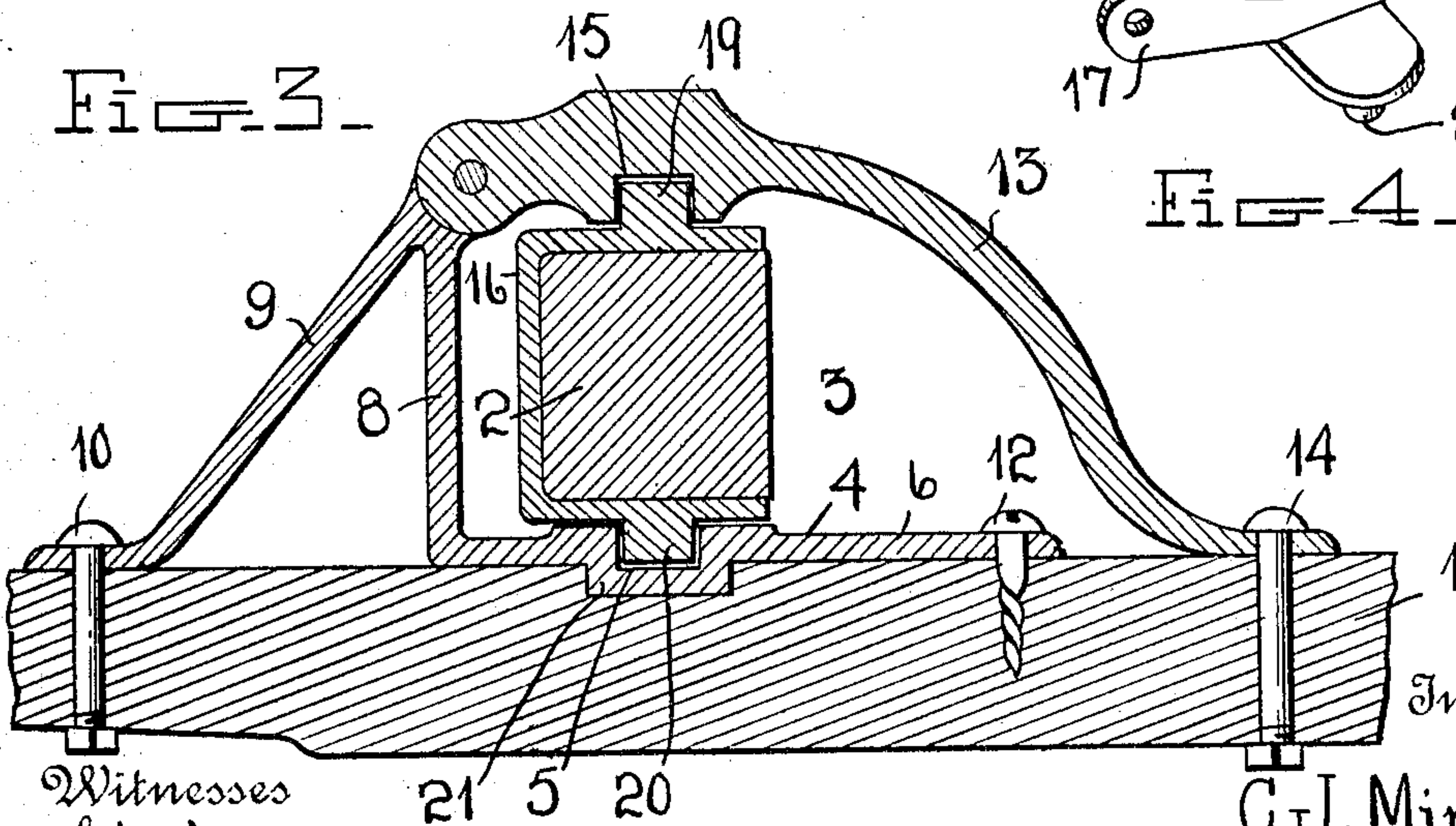


Fig. 4—

Witnesses

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CALVIN J. MINTON, OF GAGE, OKLAHOMA TERRITORY.

DOUBLETREE-FASTENER.

No. 871,723.

Specification of Letters Patent.

Patented Nov. 19, 1907.

Application filed December 31, 1906. Serial No. 350,171.

To all whom it may concern:

Be it known that I, CALVIN J. MINTON, a citizen of the United States, residing at Gage, in the county of Woodward and Territory of Oklahoma, 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.

This invention relates to improvements in doubletree fasteners.

The object of the invention is to provide a device of this character by means of which a doubletree may be pivotally-connected and securely held in place on a vehicle tongue without the necessity of inserting a pivot bolt through the doubletree, thereby weakening the same.

A further object is to provide a device of this character having means by which the doubletree may be quickly engaged with or disengaged from the tongue.

With the above and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts, as will be hereinafter described and claimed.

In the accompanying drawings:—Figure 1 is a side view of a pole, showing a doubletree attached thereto by means of my improved fastener, the doubletree being shown in section; Fig. 2 is a top plan view of the same; Fig. 3 is a vertical sectional view of the tongue, the doubletree and the fastener; and Fig. 4 is a detail perspective view of the clip by which the doubletree is pivotally connected to the fastener.

Referring more particularly to the drawings, 1 denotes the pole of a vehicle, 2 denotes the doubletree and 3 the fastener. The fastener 3 comprises a base plate 4, which is adapted to be engaged with the upper side of the tongue. The base plate 4 is provided with a centrally-disposed socket 5, a rearwardly-projecting lug 6, laterally-projecting lugs 7, and at its rear end with a right angularly-projecting arm 8 on which is formed a forwardly-projecting brace bar 9. The lower end of the bar 9 engages the tongue, and is secured thereto by a fastening bolt or screw 10. The lug 6 is also adapted to be secured to the vehicle tongue, by means of a bolt or screw 12. The upper end of the arm 8 is provided with apertured ears or lugs, be-

tween which is pivotally-connected the front end of a downwardly and rearwardly-curved swinging arm or bar 13. The lower rear end of the bar 13 is in engagement with the tongue and is adapted to be secured in place by means of a fastening bolt or screw 14, as shown. In the arm or bar 13, adjacent to its pivotal connection with the arm 8, is formed a socket 15, which when the arm 13 is in engagement with the tongue is directly in line with the socket 5 in the base plate 4.

Secured to the doubletree midway between its ends is a clip 16, the forward side or wall of which is provided with laterally-projecting lugs 17, which bear against the forward side of the doubletree and are secured thereto by means of screws 18. On the outer side of the upper and lower portions or plates of the clips 16 which engage the upper and lower side of the doubletree are formed upwardly and downwardly-projecting studs 19 and 20. The downwardly-projecting stud 20 on the lower plate of the clip is adapted to be pivotally-engaged with the socket 5 in the base plate of the fastener and with the upwardly-projecting stud 19 on the upper plate of the clip is adapted to be engaged the socket 15 of the swinging arm or bar 13, thereby pivotally securing the doubletree upon the tongue of the vehicle.

On the under side of the base plate 4 is preferably formed a circular boss 21, into which the socket 5 in the base plate extends, said boss being seated in a recess in the upper side of the tongue when the fastener is applied thereto, thereby aiding in holding the fastener in place. By providing a pivotal connection for one end of the securing bar or arm 13, the latter may be swung upwardly upon the removal of the bolt or screw 14, thus enabling the doubletree to be quickly applied to or removed from the tongue. In forming the arm or bar 13 as herein shown and described and securing the forward end of the same to the tongue, said bar serves as a brace to rigidly hold or support the fastener on the tongue.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of

this invention, as defined by the appended claims.

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

1. A fastening device for double-trees comprising a base plate having a socket formed therein, means for securing said plate to the tongue, an upwardly-projecting arm formed on said base plate, a securing bar pivotally connected to the upper end of said upwardly-projecting arm, said securing bar having a socket to aline with the socket in said base plate, means for detachably connecting the securing arm to the tongue, a clip secured to the double-tree and having oppositely-projecting studs to engage the sockets in the base plate and securing bar of the fastener.

2. A fastener for double-trees comprising a base plate having a socket therein, a boss formed on the under side of said plate to engage a recess in the tongue, an upwardly-projecting right-angular arm formed on one edge of said base plate, a brace formed on said arm and secured to the tongue, a secur-

ing bar pivotally connected at one end to the upper end of said angular arm, a bolt to secure the downwardly-projecting end of said securing bar to the tongue, a clip arranged on and secured to the double-tree and oppositely-projecting studs formed on the outer sides of the upper and lower plates of said clip to engage the sockets in the base plate and in the securing bar of the fastener.

3. A double-tree fastener comprising a base plate having an upwardly-projecting arm, a bar pivotally connected at one end to the free end of said arm, means for connecting the free end of said bar to the tongue, a U-shaped clip for embracing the double-tree and having oppositely-disposed studs on the outer faces of its legs to engage the sockets in said base plate and pivoted bar.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

CALVIN J. MINTON.

Witnesses:

J. W. LA RUE,
C. H. HOLMES.