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PATENTED SEPT. 12, 1905.

W. A. TINSLEY.
DOUBLETREE.

APPLICATION FILED JUNE 1, 1905.

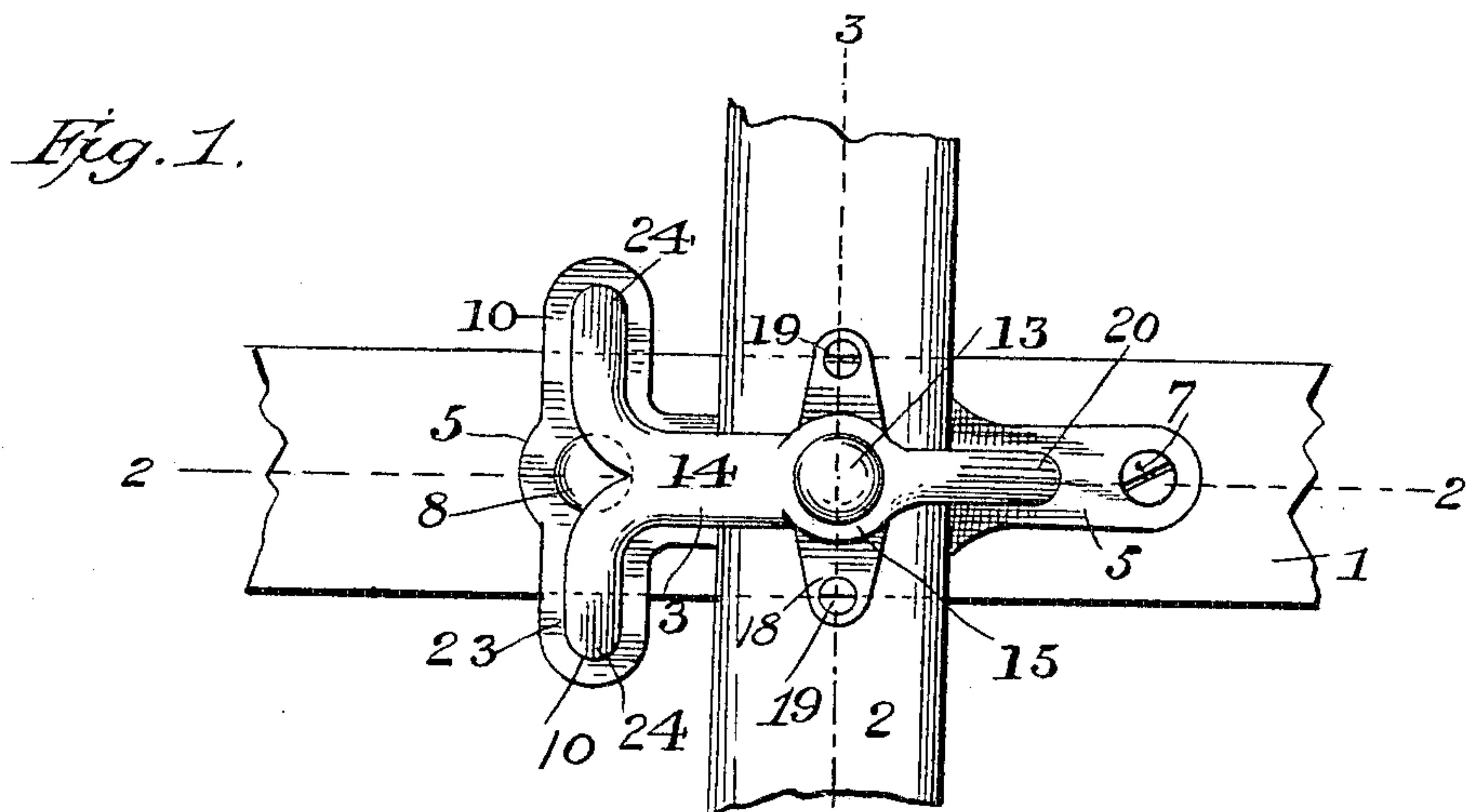


Fig. 2.

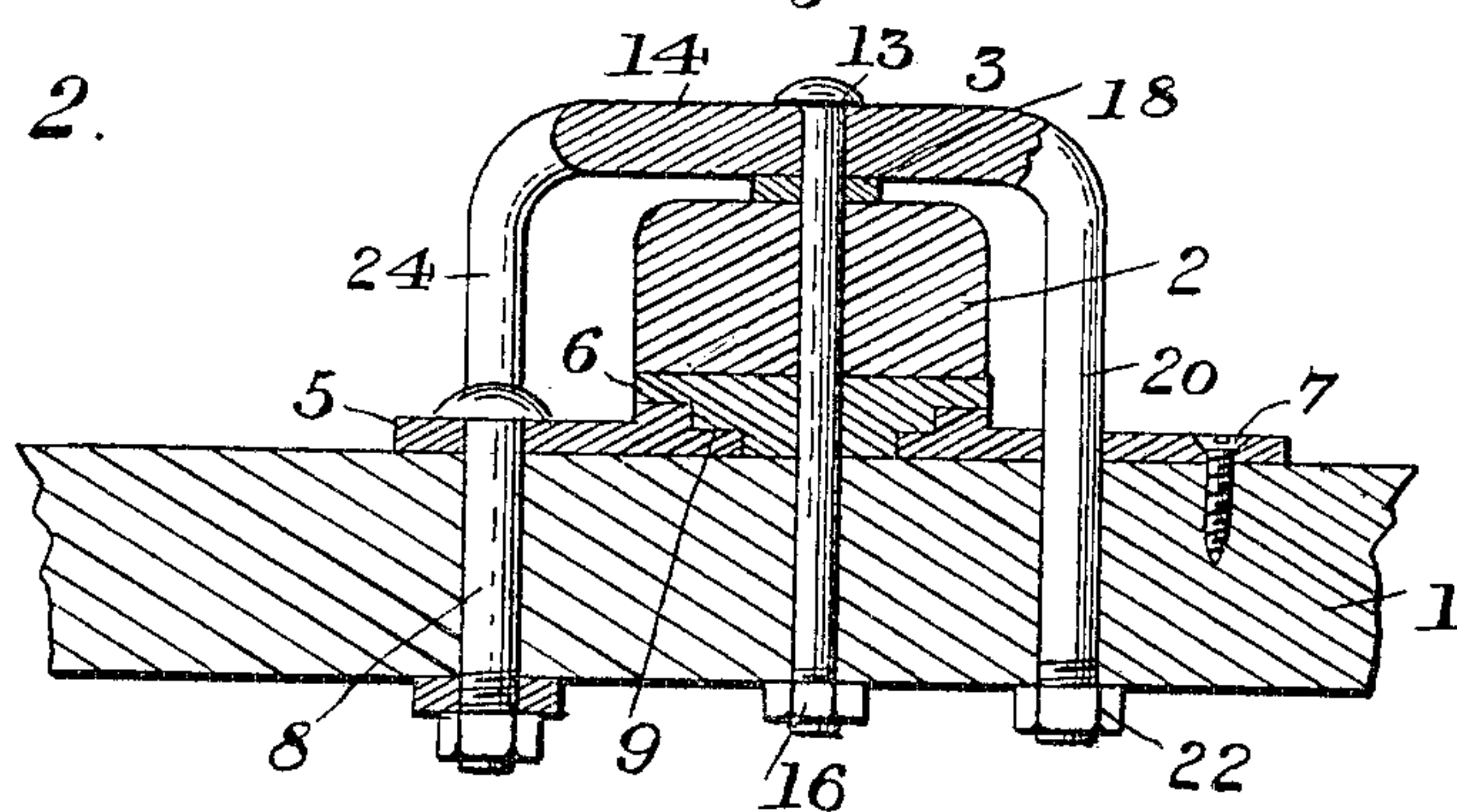
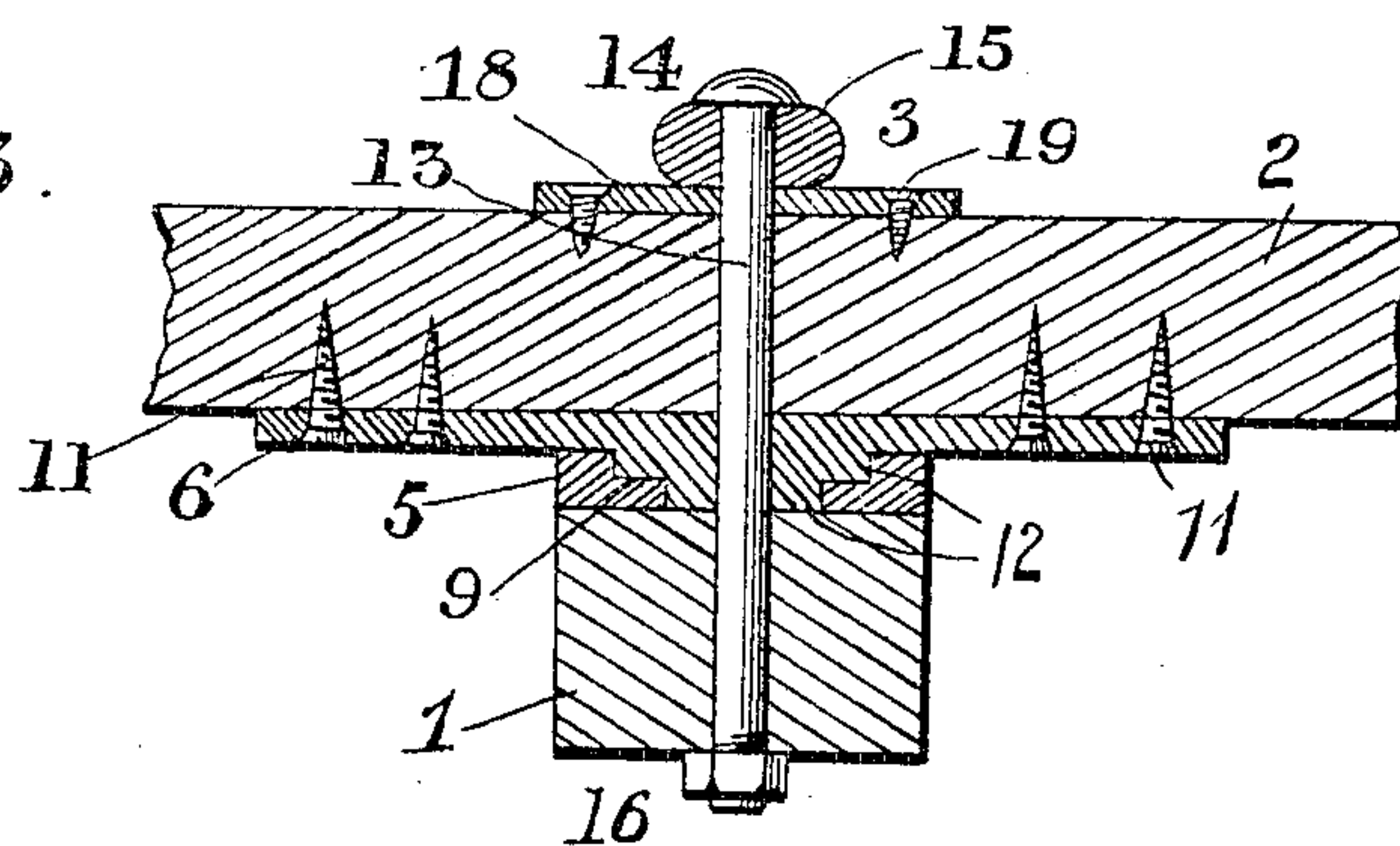


Fig. 3.



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DOUBLETREE.

No. 799,207.

Specification of Letters Patent.

Patented Sept. 12, 1905.

Application filed June 1, 1905. Serial No. 263,243.

To all whom it may concern:

Be it known that I, WILLIAM A. TINSLEY, a citizen of the United States, residing at Willis, in the county of Brown and State of Kansas, have invented certain new and useful Improvements in Doubletrees; 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 improvements in doubletrees, and more particularly to clamping-yokes or fastenings therefor.

The object of the invention is to improve and simplify the construction and operation of devices of this character, and thereby render the same more efficient and durable in use and less expensive to manufacture.

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 more fully described, and particularly pointed out in the appended claim.

In the accompanying drawings, Figure 1 is a top plan view of portions of the tongue and the doubletree, showing the application of my invention thereto. Fig. 2 is a vertical longitudinal sectional view taken on the line 2 2 in Fig. 1. Fig. 3 is a vertical transverse sectional view taken on the line 3 3 in Fig. 1.

Referring to the drawings by numeral, 1 denotes a portion of a draft pole or tongue, 2 denotes a portion of a doubletree, and 3 denotes my improved fastening or connecting device between these parts.

The device 3 comprises a pivot-coupling 4, which consists of two members 5 and 6. The member 5 is formed with a plate of substantially T form secured by a screw 7 and a bolt 8 upon the upper side of the tongue 1. The main portion of the plate 5 is formed with an enlargement having a circular recess or opening 9, and on the ends of the cross portion of said plate are formed projecting lugs, which extend beyond the sides of the tongue 1 and are formed with apertures or openings 10. The member or plate 6 of the coupling is secured by screws or the like 11 upon the under side of the doubletree 2 and is formed upon its enlarged central portion with a circular boss 12, adapted to be journaled in the opening or recess 9, formed in the coupling member 5, so that the doubletree may swing with respect to the tongue. The coupling members 5 6 are held in engagement with each

other, and hence the doubletree is held upon the tongue by means of a pivot-bolt 13 and a clamping-yoke 14 in the form of a three-pronged bolt. The pivot-bolt 13 passes through an opening formed in an enlarged portion 15 at the top of the yoke or device 14 and through alining openings formed in the doubletree, the coupling members, and the tongue, as clearly shown in Fig. 2 of the drawings, the openings in the coupling members 5 6 being disposed concentric with the boss 12 and the bearing recess or opening 9. The pivot-bolt 13 has a head at its upper end and a nut 16 upon its lower screw-threaded end beneath the tongue. Between the upper side of the doubletree and the under side of the bearing or portion 15 of the yoke 14 is disposed a wear-plate 18, through an opening in which the pivot-bolt projects and which is secured by screws or the like 19 upon the doubletree. The yoke or clamping device 14 straddles the doubletree and has one of its ends (denoted by the numeral 20) passed through alining openings 21, formed in one end of the coupling member 5 and in the tongue. This end of the yoke is screw-threaded to receive a clamping-nut 22, as clearly shown in Fig. 2 of the drawings. The opposite end 23 of the yoke or clamp 14 is forked or bifurcated to form two ends or arms 24, which are adapted to straddle the tongue. These ends or arms 24 pass through the openings 10, formed in the lugs or projecting portions of the coupling member 5 and through openings formed in a cross-plate 26, which is disposed upon the under side of the tongue and is secured thereon by the bolt 8, as seen in Figs. 2 and 3. The lower ends of the arms 24 are screw-threaded to receive clamping-nuts 25. It will be seen that by tightening the nuts 22 and 25 the yoke or clamping device 14 will be drawn upon to hold the doubletree firmly upon the tongue.

The construction, operation, and advantages of the invention will be readily understood from the foregoing description, taken in connection with the accompanying drawings. It will be seen that this connection between the doubletree and tongue is exceedingly strong and durable, since these parts are each materially thickened and the pivot-bolt 13 is rigidly supported, the pivot-bolt, together with the three arms or prongs of the clamping device 14, forming practically four bolts for connecting the doubletree to the tongue. The yoke will also effectively prevent any

tilting or twisting of the pivot-bolt or of the doubletree, and should the pivot-bolt break the yoke will hold the doubletree in place upon the tongue. Owing to the forked or
5 bifurcated end of the clamping-yoke 14, it will be seen that the pivot-bolt will be prevented from being bent or tilted laterally.

While I have shown and described my invention as applied for connecting a double-
10 tree to the tongue or pole of a vehicle, it will be understood that it may be used for various other purposes.

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

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

The combination with a tongue or bar and a doubletree or the like, of a coupling-plate secured upon said tongue and formed with an

annular recess and projecting apertured lugs, a coacting coupling-plate secured upon said
25 doubletree and formed with a circular boss to enter said recess, a yoke-clamp straddling said doubletree and having one of its ends passed through said tongue and the coupling-plate thereon, and its other end forked or bifur-
30 cated to straddle said tongue and passed through the apertures in said projecting lugs, a cross-plate upon said tongue to receive the forked ends of said clamping-yoke, nuts upon the threaded ends of said clamping-yoke, and
35 a pivot-pin passed through alining openings formed in said yoke, said doubletree, said coupling-plates and said tongue, substantially as described.

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

WILLIAM A. TINSLEY.

Witnesses:

WM. PECKHAM,

A. F. JOHANNES.