

No. 816,501.

PATENTED MAR. 27, 1906.

W. C. PRITCHARD.
ATTACHMENT FOR SWINGLETREES.

APPLICATION FILED JUNE 30, 1905.

2 SHEETS—SHEET 1.

Fig. 1.

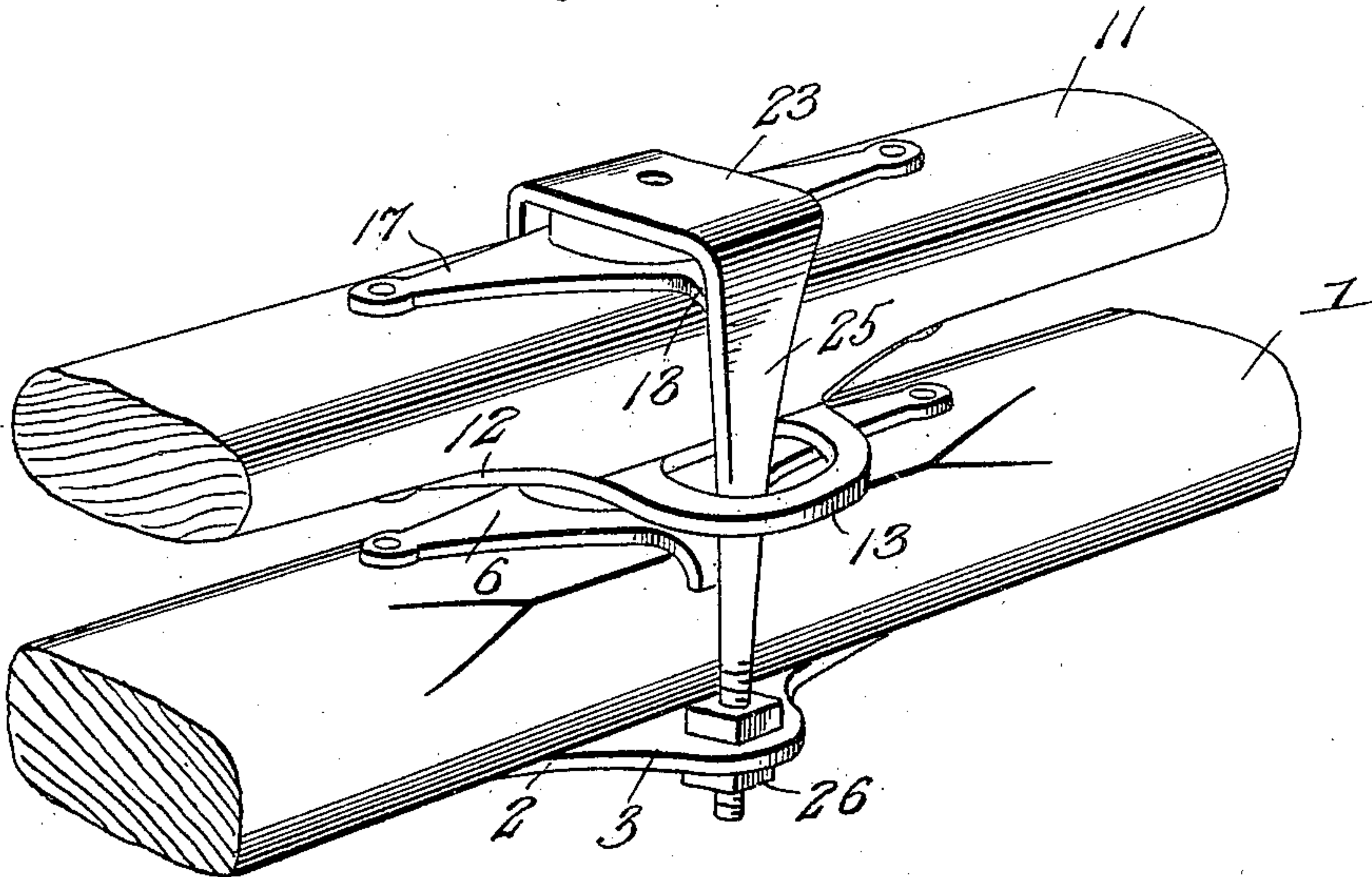
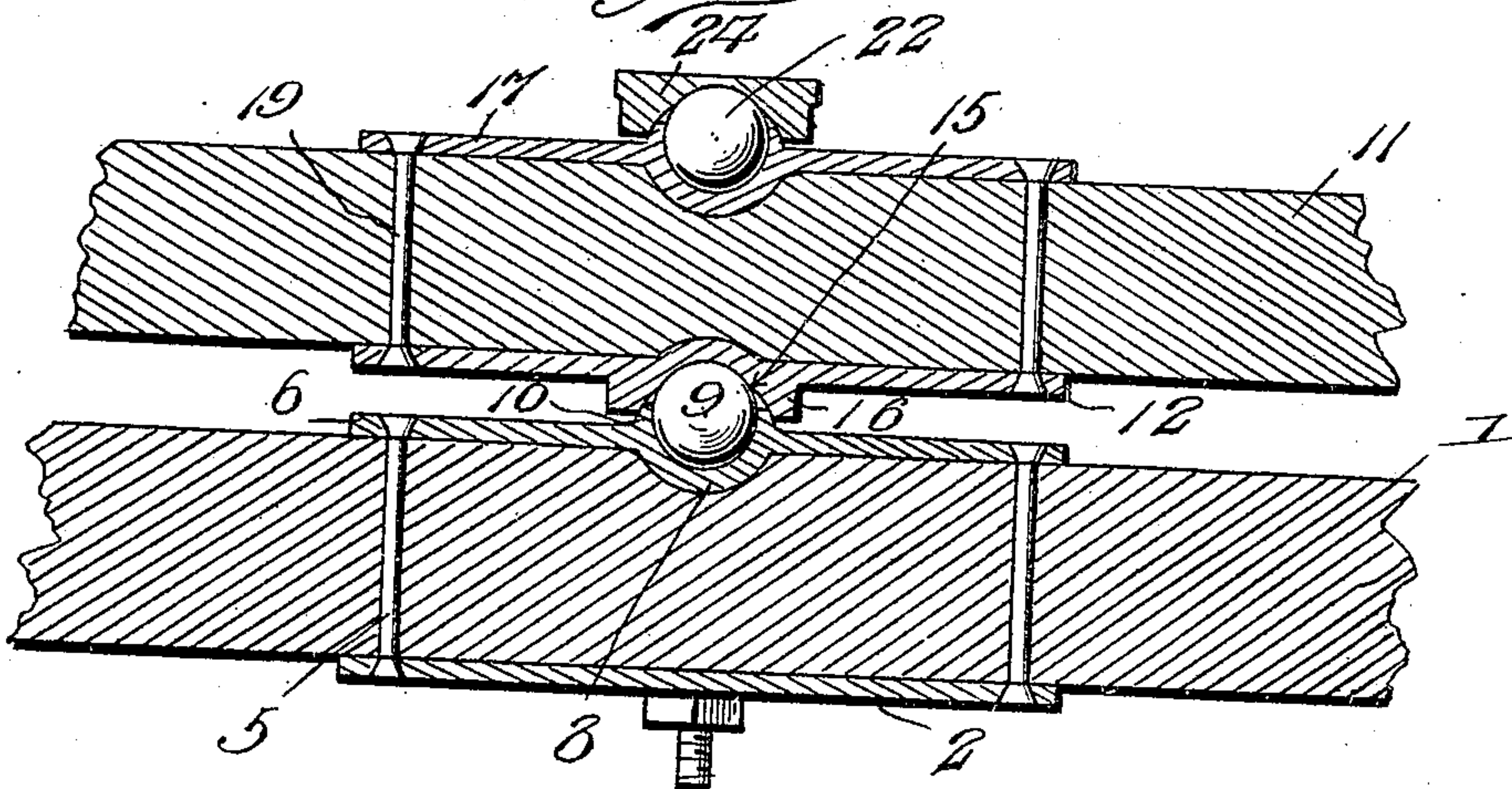


Fig. 2.



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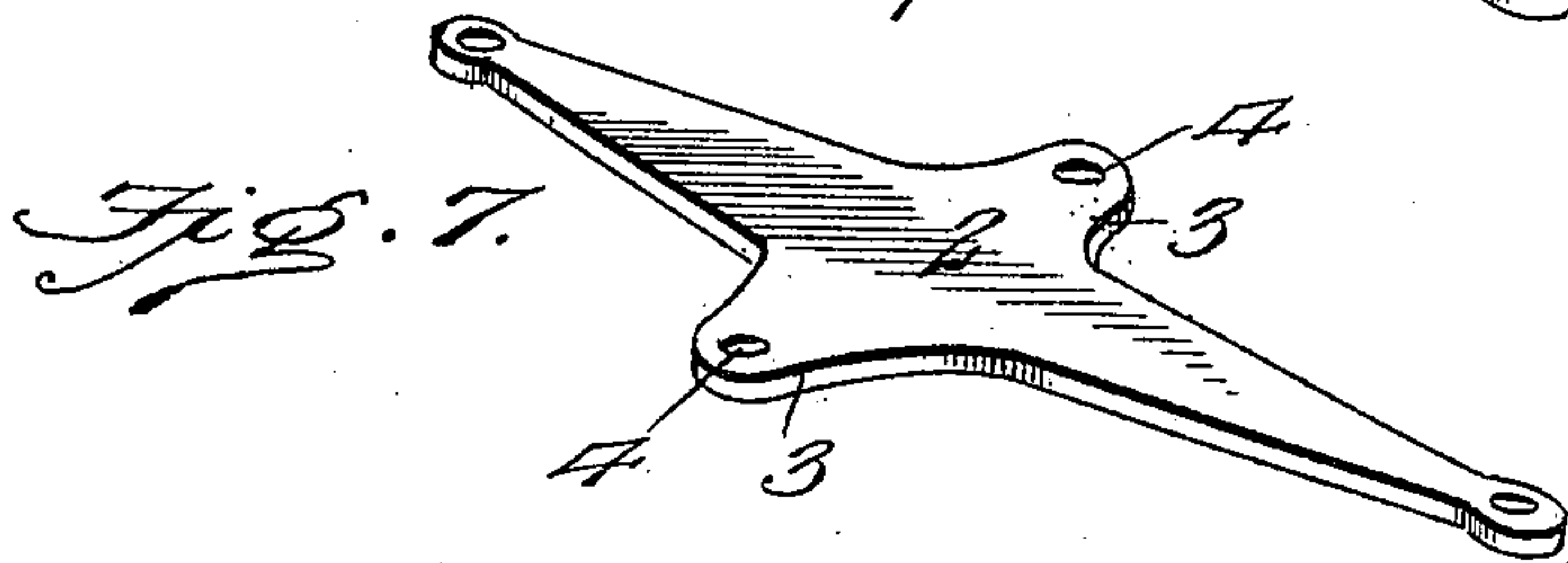
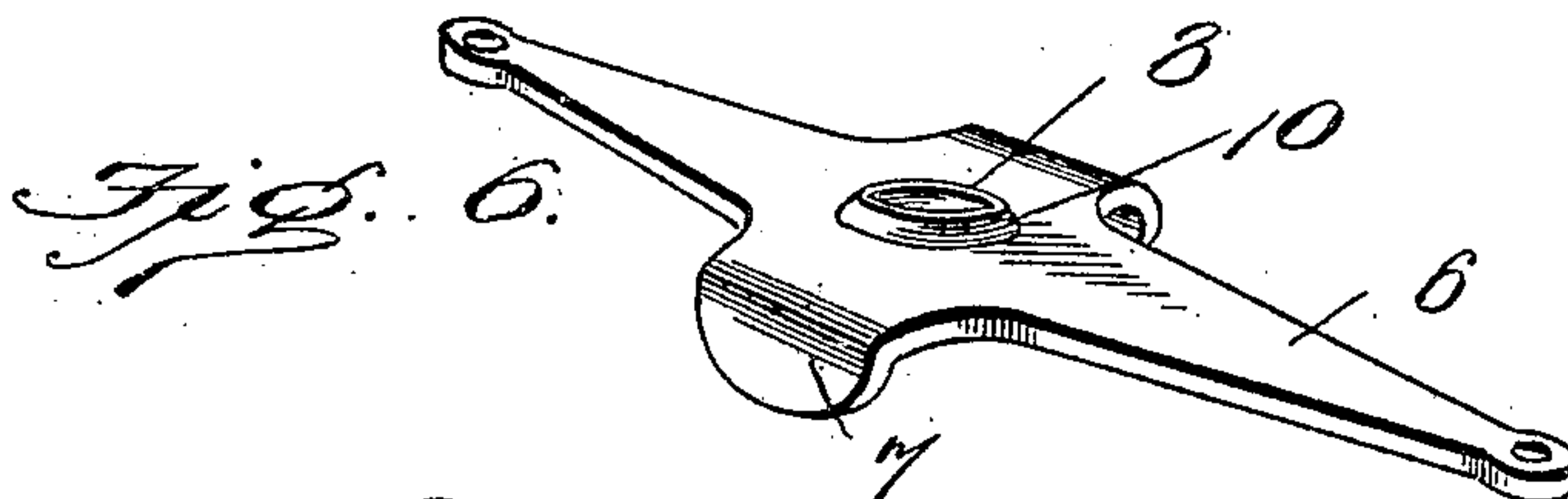
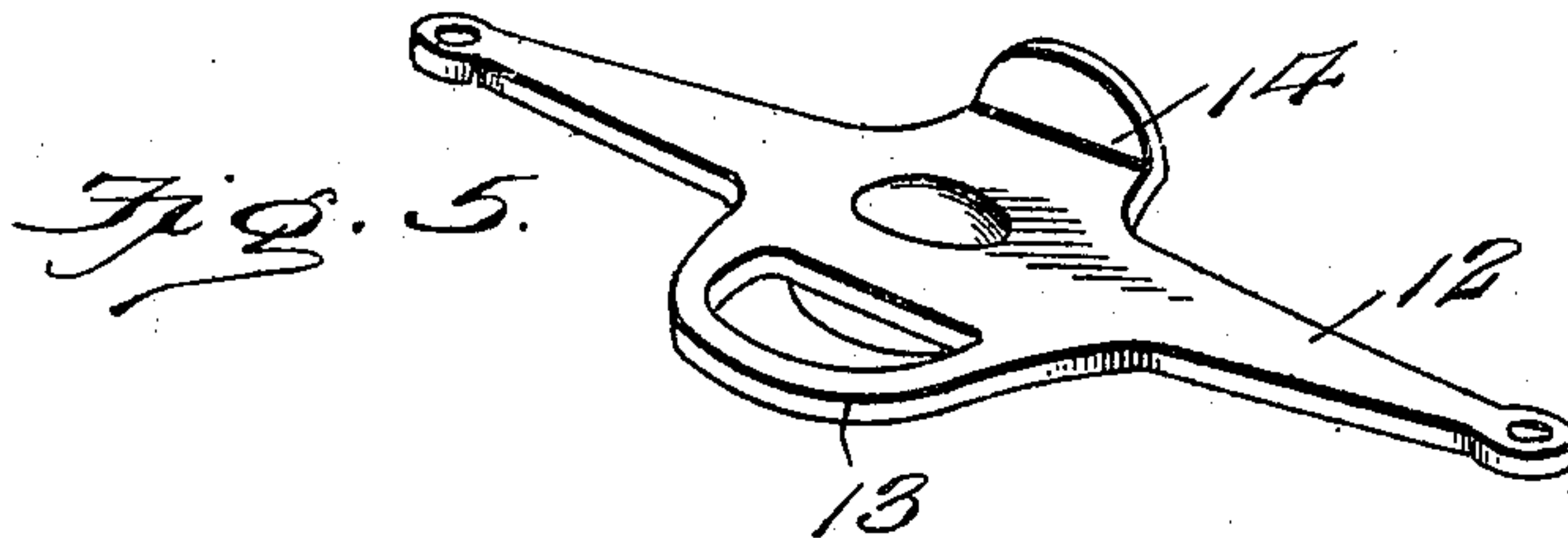
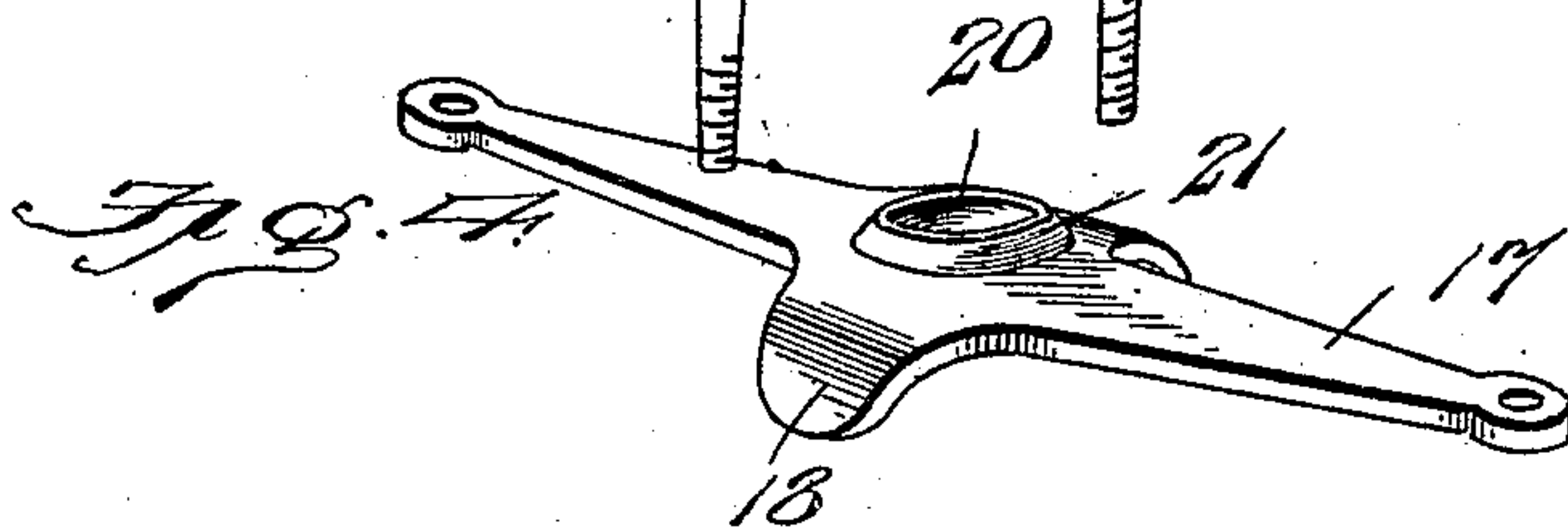
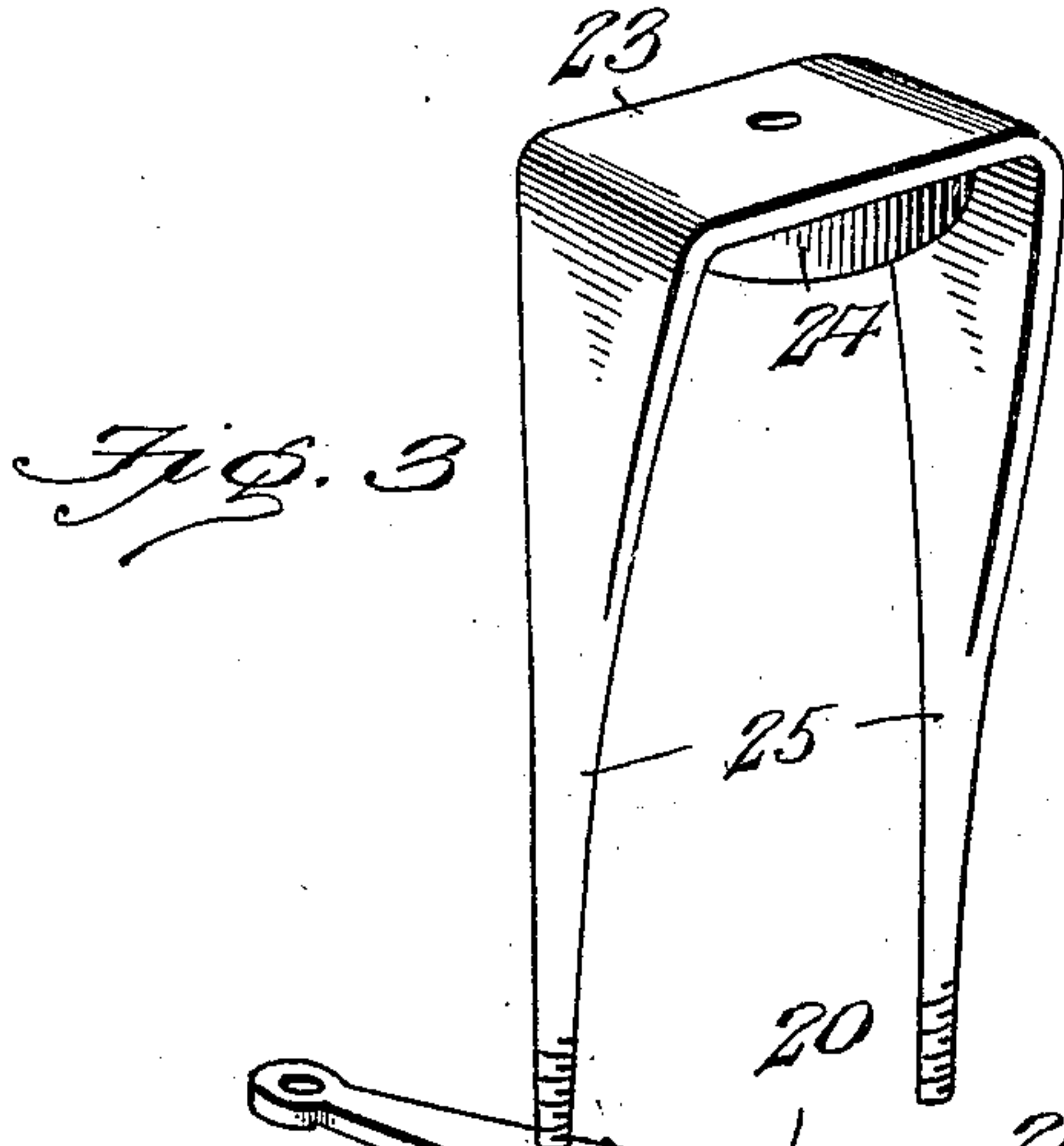
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2 SHEETS—SHEET 2.



Witnesses

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UNITED STATES PATENT OFFICE.

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ATTACHMENT FOR SWINGLETREES.

No. 816,501.

Specification of Letters Patent.

Patented March 27, 1906.

Application filed June 30, 1905. Serial No. 267,773.

To all whom it may concern:

Be it known that I, WILLIAM C. PRITCHARD, a citizen of the United States, residing at Augusta, in the county of Richmond and State of Georgia, have invented new and useful Improvements in Attachments for Swingletrees, of which the following is a specification.

My invention relates to new and useful improvements in swingletrees; and its object is to provide simple, durable, and effective means for pivotally connecting a swingletree to a cross-bar and for limiting the movement of said swingletree upon its pivot.

A further object it to provide securing means which can be placed in position without the necessity of perforating the swingletree or the cross-bar for the reception of a pivot-pin.

A further object is to provide ball-bearings for the swingletree, so as to prevent undue friction upon the working parts of the attachment.

With the above and other objects in view the invention consists in the novel construction, combination, and arrangement of parts, which will hereinafter be more fully described and claimed and illustrated in the accompanying drawings, forming a part of this specification, and wherein—

Figure 1 is a perspective view showing a portion of a swingletree and a cross-bar, the two being pivotally connected. Fig. 2 is a vertical longitudinal section therethrough. Fig. 3 is a detail view of the yoke of the attachment. Figs. 4 and 5 are the top and bottom plates, respectively, of the swingletree; and Figs. 6 and 7 are top and bottom plates, respectively, of the cross-bar.

Referring to the drawings by numerals of reference, 1 is a cross-bar, having a plate 2 secured to the bottom thereof, said plate being provided with forwardly and rearwardly extending ears 3, which project along the edges of the cross-bar and have apertures 4 therein. The plate is fastened to the cross-bar by means of screws 5, and these screws can also be used for securing the top plate 6 upon the cross-bar. This top plate has oppositely-arranged downwardly-curved ears 7, which overlap the edges of the cross-bar, and a socket 8 is formed at the center of the plate for the reception of a ball 9. This socket is inclosed by a flange 10, which extends partly over the ball, as shown in Fig. 2, and serves

to retain it in position. The swingletree 11 has a bottom plate 12, having a loop 13 extending from one edge thereof beyond the edge of the swingletree, and an angular ear 14 is located at the other side of said plate and serves to overlap the edge of the swingletree and hold the tree in proper relation thereto. A socket 15 is formed at the center of this plate and is inclosed by a flange 16, and this socket is adapted to receive the ball 9, hereinbefore referred to, and its flange 16 overlaps the flange 10, hereinbefore referred to.

A top plate 17 is arranged on the swingletree and has oppositely-arranged downwardly-curved ears 18, which overlap the edges of the swingletree, and this plate, as well as the plate 12, is fastened to the swingletree by means of screws 19 or in any other suitable manner. A socket 20 is formed upon the plate 17 at the center thereof and is inclosed by a flange 21, and within this socket is an antifriction-ball 22.

A yoke 23, having a central recess 24 in its inner face, is arranged upon the swingletree and extends transversely thereof, and the ball 22 is seated in recess 24. The arms 25 of the yoke project downward to opposite sides of the cross-bar and are fastened in the ears 3 of plate 2 by means of nuts 26, which engage the screw-threaded ends of the arms. One of these arms 25 projects through the loop 13.

It will be seen that the attachment herein described can be placed in position upon any ordinary cross-bar and swingletree, whether or not the same have been previously perforated for the reception of a pivot-pin. The balls 9 and 22 form frictionless bearings for the swingletree and the yoke 23, and its arms 25 securely bind the swingletree and cross-bar together. As one of the arms 25 extends through the loop 13, the rotation of the swingletree is limited, thereby obviating the necessity of employing a governor-strap for limiting the movement of the swingletree. The device is extremely simple, durable, and inexpensive in construction.

In the foregoing description I have shown the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing the advantages thereof, and I therefore reserve the right to make such changes and altera-

tions as may fairly fall within the scope of my invention.

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

1. The combination with a cross-bar having a socket thereupon and ears secured to and projecting from the cross-bar; of a swingletree having a socket therein, a ball seated within the socket and forming a pivot, and a yoke overlapping the swingletree and engaging the ears.

2. The combination with a cross-bar having a socket in the upper face thereof, and ears secured to and extending from the cross-bar; of a swingletree having a socket in one face thereof, a pivoted ball seated within the socket, a loop secured to and extending from the swingletree, and a yoke overlapping the swingletree and secured to the ears, said yoke engaging the loop.

3. The combination with a cross-bar having a socketed plate secured thereto, and ears secured to and extending from the cross-bar; of a swingletree, a socketed plate secured thereto, a pivoted ball seated within the socket, a loop integral with the socketed plate of the swingletree, and a yoke over-

lapping the swingletree and secured to the ears, said yoke engaging the loop.

4. The combination with a cross-bar having a socketed plate secured thereon, and ears secured to and extending from the cross-bar; of a swingletree, a socketed plate secured thereto, a ball seated within the socket, a second socketed plate upon the swingletree, a ball seated therein, and a yoke mounted upon the last-mentioned ball and secured to the ears.

5. The combination with a cross-bar having a socketed plate thereon and ears secured to and extending from the plate; of a swingletree, socketed plates secured to opposite faces thereof, balls seated within the socketed plates, one of said balls forming a pivot for the swingletree, a loop extending from the swingletree, and a yoke mounted upon one of the balls and secured to the ears, said yoke engaging the loop.

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

WILLIAM C. PRITCHARD.

Witnesses:

WILLIE GART,
GEO. MCKITTRICK.