

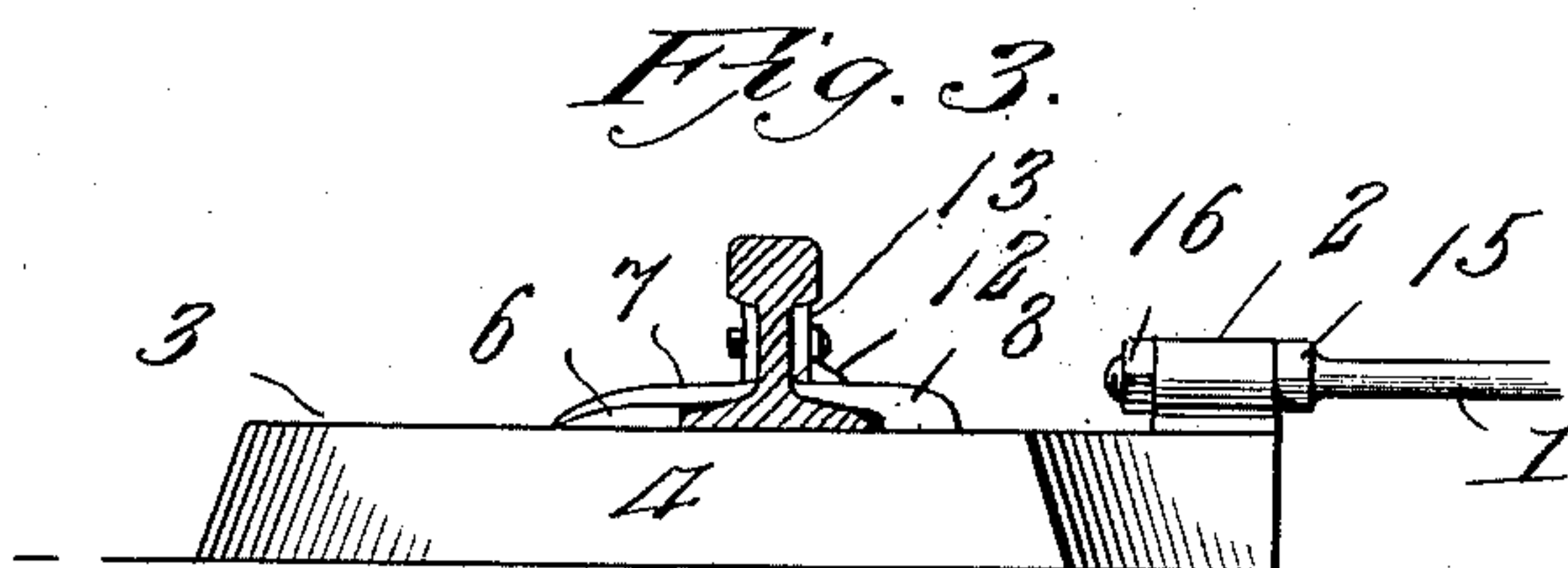
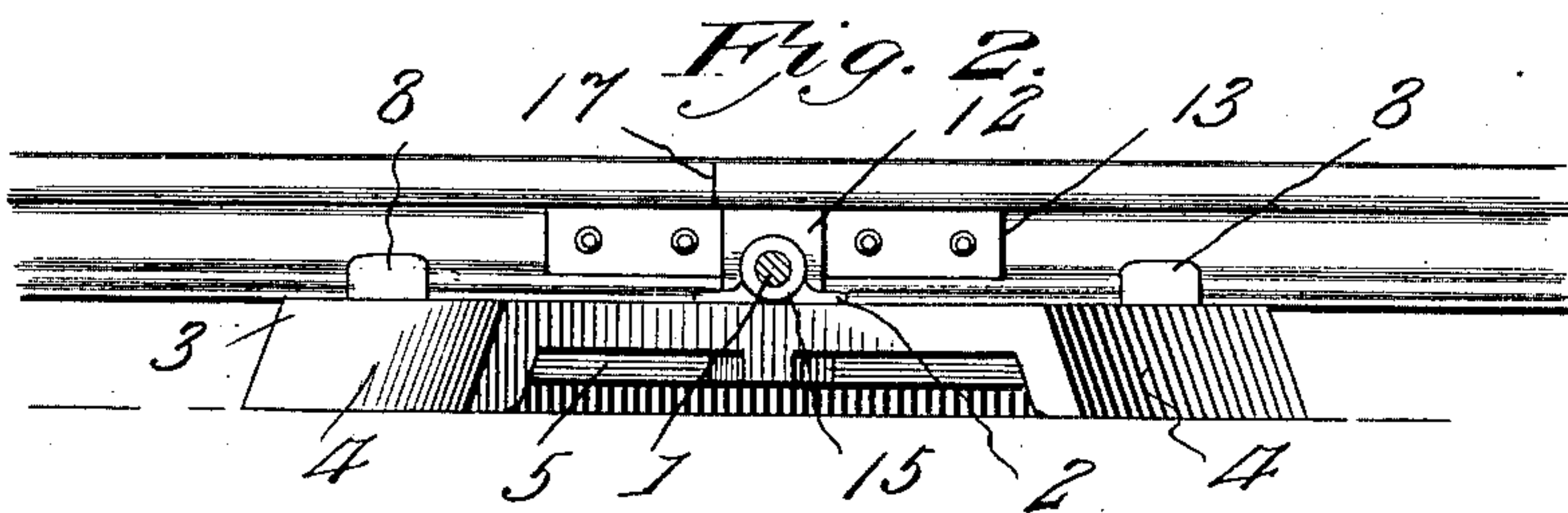
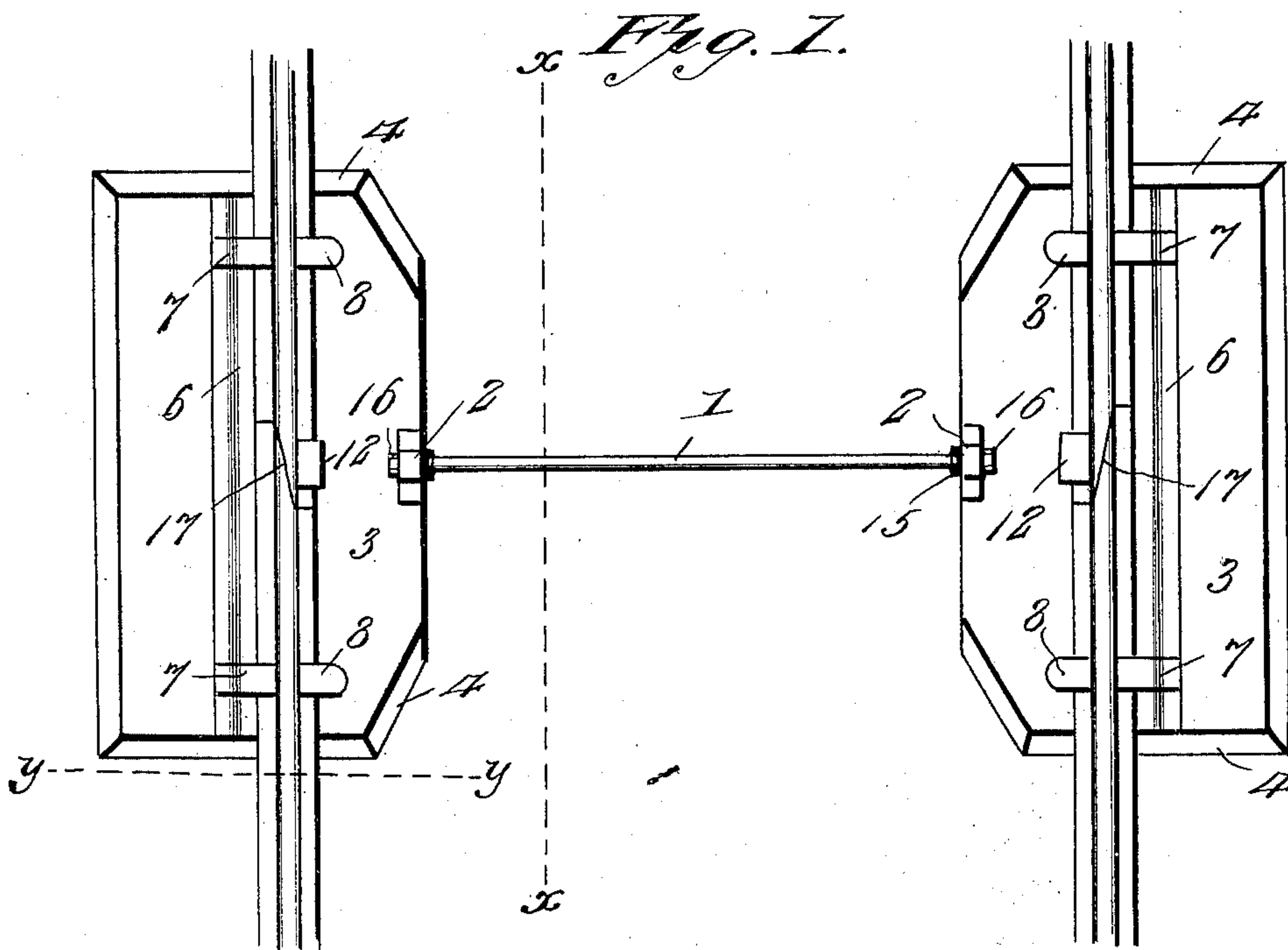
No. 737,508.

PATENTED AUG. 25, 1903.

C. A. SKIBBE.
METALLIC RAILWAY TIE.
APPLICATION FILED APR. 9, 1903.

NO MODEL.

2 SHEETS—SHEET 1.



Charles A. Skibbe, Inventor

Witnesses
Wm. J. Gerth
Herbert D. Lawson

By Victor J. Evans
Attorney

No. 737,508.

PATENTED AUG. 25, 1903.

C. A. SKIBBE.
METALLIC RAILWAY TIE.

APPLICATION FILED APR. 9, 1903.

NO MODEL.

2 SHEETS—SHEET 2.

Fig. 4.

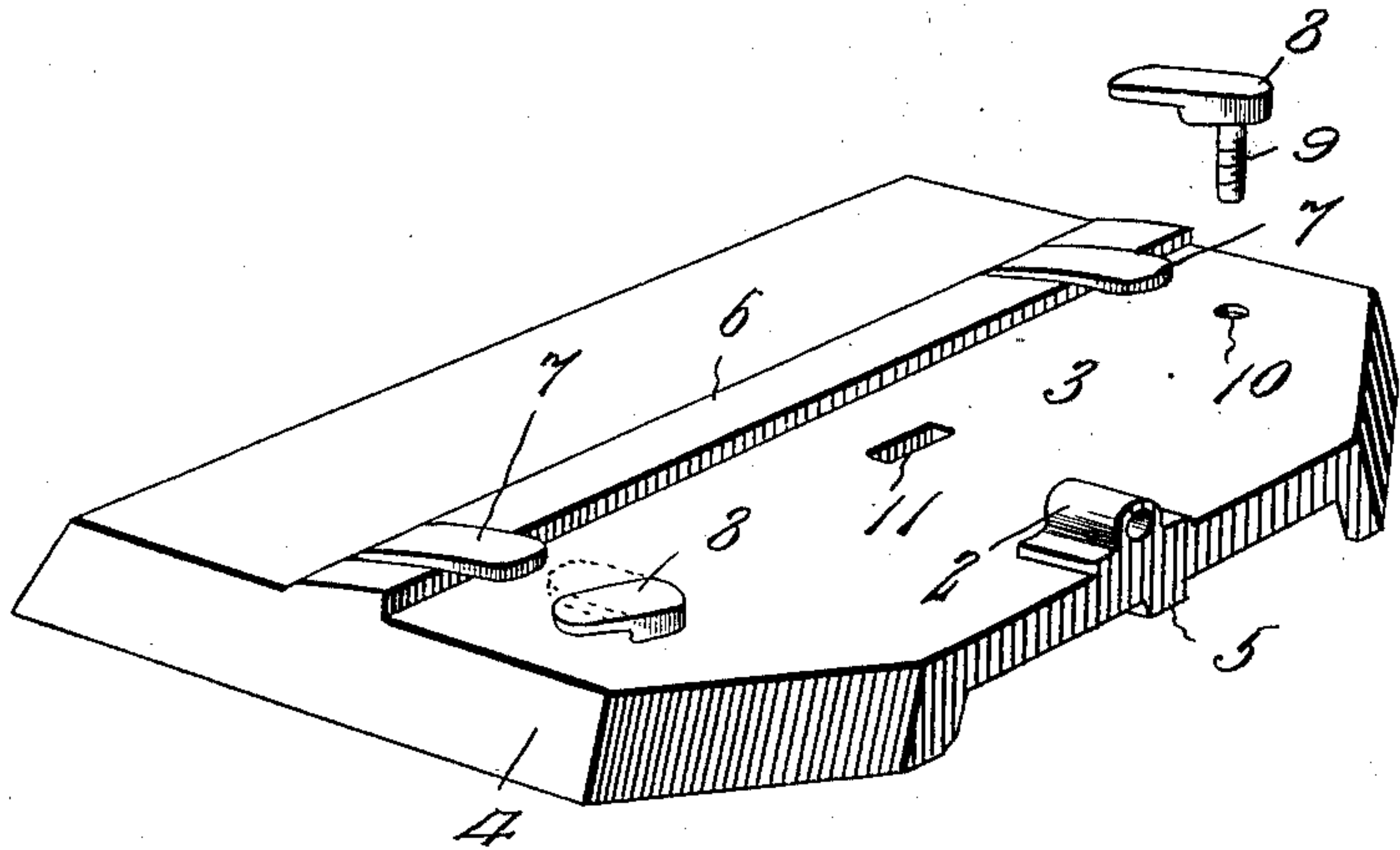


Fig. 5.

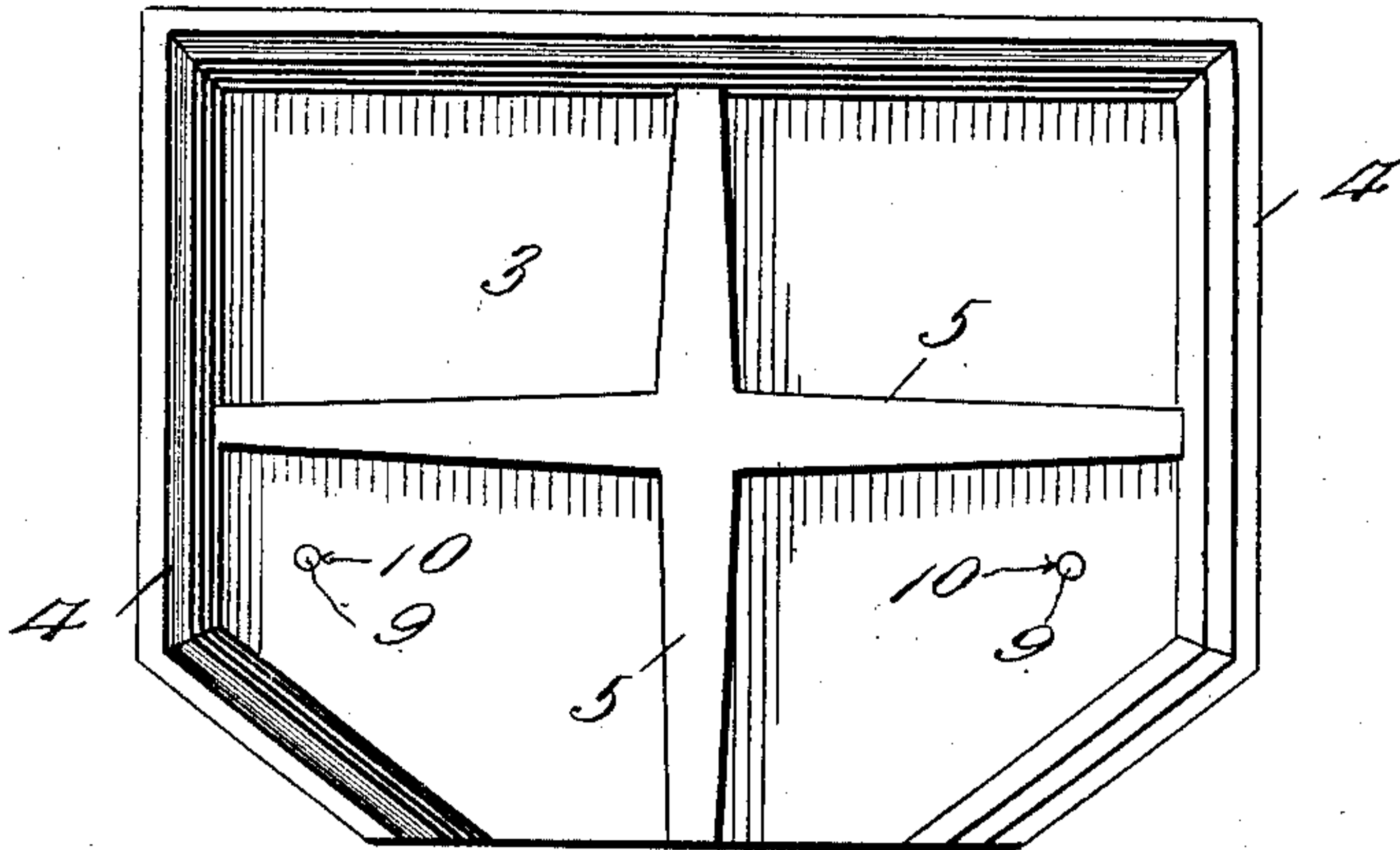
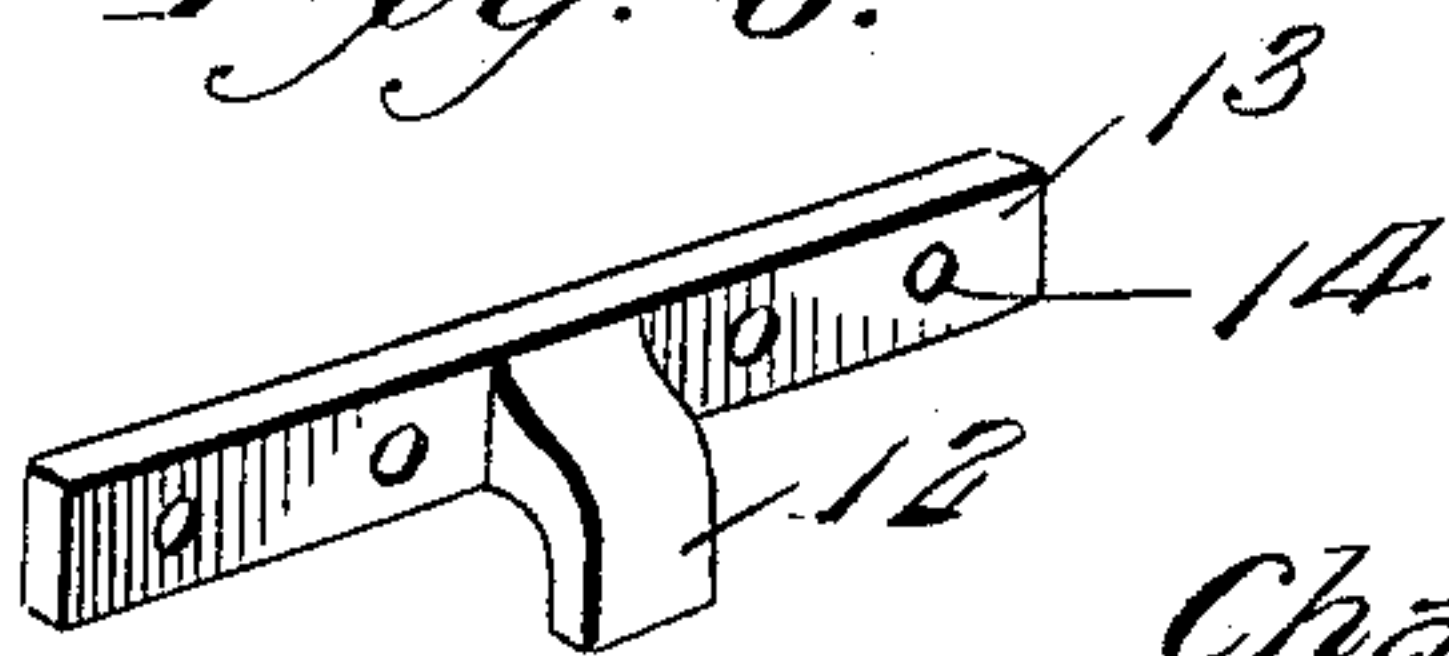


Fig. 6.



Witnesses

Witnesses
Wm. Koeth.
Herbert D. Lawson.

Inventor
Charles A. Skibbe,

३६५

Victor J. Evans

Attorney.

UNITED STATES PATENT OFFICE.

CHARLES A. SKIBBE, OF FRUITHURST, ALABAMA, ASSIGNOR OF ONE-THIRD
TO CHARLES A. METZGER, OF FRUITHURST, ALABAMA.

METALLIC RAILWAY-TIE.

SPECIFICATION forming part of Letters Patent No. 737,508, dated August 25, 1903.

Application filed April 9, 1903. Serial No. 151,880. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. SKIBBE, a citizen of the United States, residing at Fruithurst, in the county of Cleburne and State of Alabama, have invented new and useful Improvements in Metallic Railway-Ties, of which the following is a specification.

My invention relates to new and useful improvements in metallic railway-ties; and its object is to provide a tie adapted to be formed of two similar castings connected rigidly together and having means thereon whereby the same may be securely anchored within the road-bed.

A further object is to provide novel fastening means upon the tie whereby a rail may be rigidly connected thereto.

With the above and other objects in view the invention consists in providing two sections, each of which is preferably formed in a single casting. These sections are connected by means of a rod or other suitable device, and each has downwardly-extending flanges and ribs, which serve to anchor it within the road-bed. A longitudinally-extending rib is formed on each section of the casting and serves to prevent lateral movement of a rail after the same has been placed in position thereon. Ears project from the rib for engaging one of the flanges of the rail, and securing-buttons are mounted upon the section for engaging the other flange of said rail. A fish-plate of novel construction is employed, which is adapted not only to be secured to the rails, but also to engage the tie.

The invention also consists in the further novel construction and combination of parts hereinafter more fully described and claimed, and illustrated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is a plan view of the tie with the rails in position thereon. Fig. 2 is a section on line *xx*, Fig. 1. Fig. 3 is a section on line *yy*, Fig. 1. Fig. 4 is a perspective view of one of the sections of the tie detached and also showing a button removed therefrom. Fig. 5 is a bottom plan view of the section, and Fig. 6 is a detail view of a fish-plate adapted to be used in connection with the tie.

Referring to the figures by numerals of ref-

erence, 1 is a rod the ends of which are screw-threaded and engage brackets 2, which project upward from the inner edges of similar sections 3 of the tie. Each of these sections is formed in a single casting, having downwardly-extending inclined flanges 4 at the sides thereof and strengthening-ribs 5 extending transversely from the bottom of the casting. A rib 6 is formed upon the upper surface of each section and has laterally-projecting ears 7. Adjacent to each are arranged buttons 8, the stems 9 of which project through apertures 10, formed within the casting, and are adapted to be secured therein in any suitable manner, as by means of nuts. (Not shown.) At a point between the buttons 8 an aperture 11 is formed in the casting and is adapted to receive a shank 12, which is arranged at one side of a fish-plate 13, having apertures 14 for the reception of securing means.

When it is desired to use ties of the construction herein shown and described, the castings 3 are connected by means of rod 1, and this rod has collars 15 thereon, which are spaced apart a sufficient distance to hold the castings 3 in proper relation to each other. Nuts 16 or other suitable devices are employed for locking the rod to the castings. Flanges 4 and ribs 5 project in the road-bed, and the earth is tamped therearound, and it will therefore be obvious that the casting will be securely anchored in position and prevented from becoming accidentally displaced. To secure rails upon the ties, the ends thereof are brought together upon the castings 3 at points between ears 7 and the outer flanges of the rails are brought against ribs 6 and under ears 7. Buttons 8 are then placed over the inner flanges of the rails and locked in such position, and stem 12 is inserted into aperture 11 and the fish-plate connected thereto fastened to the adjoining ends of the rails.

It will of course be understood that it is not necessary to provide apertures 11 in those castings 3 which are not arranged under the ends of the rails.

While any form of rail may be used in connection with this tie, I preferably provide rails having beveled ends 17, which overlap, as illustrated in Fig. 1.

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
5 departing from the spirit or sacrificing any of the advantages thereof, and I therefore reserve the right to make such changes as fairly fall within the scope of my invention.

Having thus described the invention, what
10 is claimed as new is—

1. In a railway-tie, the combination with a casting having integral anchoring means depending therefrom, and a longitudinally-extending rib upon the casting; of laterally-ex-
15 tending ears on the rib adapted to engage a rail, rail-engaging buttons adjacent to the ears adapted to be secured to the casting, a fish-plate, and a shank integral with the fish-plate adapted to engage an aperture in the
20 casting.

2. In a railway-tie, the combination with a rod having collars thereon, of similar castings, brackets thereon engaged by the opposite ends of the rod, means for securing the
25 brackets upon the rod and against the collars, anchoring-flanges depending from the castings, a longitudinally-extending rib upon each casting, laterally-extending ears on the rib adapted to engage a rail, rail-engaging
30 buttons adjacent the ears and secured to the castings, fish-plates, and a shank integral with said plates and adapted to engage apertures in the castings.

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

CHARLES A. SKIBBE.

Witnesses:

FRED A. CARVER,

CHARLES W. BURCHFIELD.