No. 882,200. PATENTED MAR. 17, 1908.

C. HERNDON.

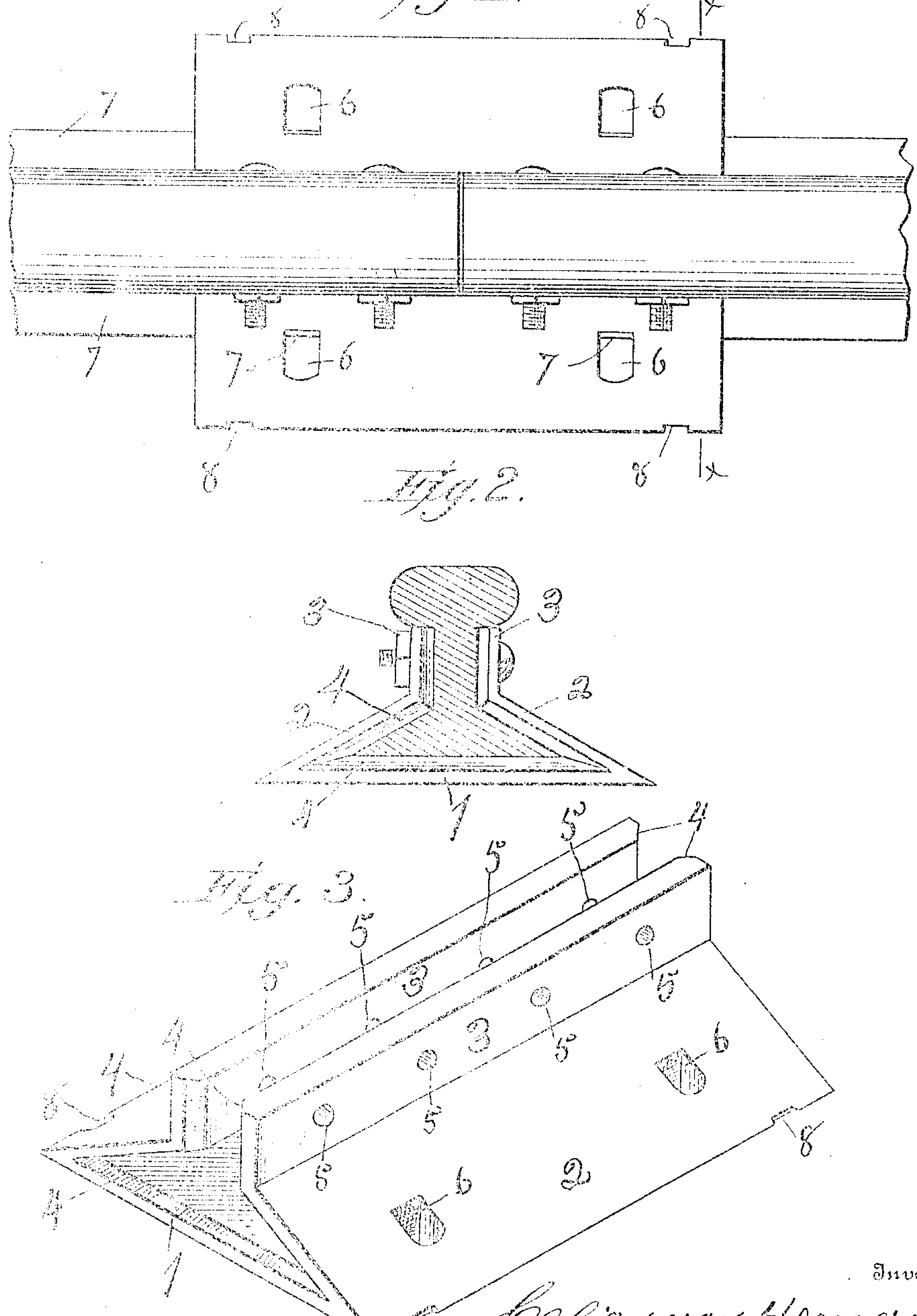
RAILWAY JOINT CHAIR.

APPLICATION FILED SEPT. 16, 1907.

Fig. 1.

Fig. 2.

Fig. 3.



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CALAWAY HERNDON, OF WAGONER, OKLAHOMA.

RAILWAY JOINT-CHAIR.

No. 882,200. Specification of Letters Patent. Patented March 17, 1908.

Application filed September 16, 1907. Serial No. 393,054.

To all whom it may concern:

Be it known that I, CALAWAY HERNDON, a citizen of the United States, residing at Wagoner, Oklahoma, have invented certain new and useful Improvements in Railway Joint-Chairs, of which the following is a specification.

My invention has relation to railway joint-chairs, and provides means for connecting the meeting ends of railway rails and holds the meeting ends securely abutted against each other so firmly and accurately that their linear lines, side and top, exactly correspond, thus doing away with any jarring or jolting of the wheels at the meeting ends of the rails.

My invention consists of certain features of construction, combination and arrangement of parts as are fully set out and described in this specification and the claims hereunto appended, reference being had to the accompanying drawings forming a part of this specification.

My invention may be a malleable casting, or it may be of spring metal, such as steel or the like. It may be made of a solid sheet forced into proper shape, as shown in Figure 3.

Fig. 1, is a top plan view of my railway joint-chair, the rails in place. Fig. 2, is a cross sectional view on the line $x\,x$, of Fig. 1. Fig. 3, is a perspective view of my invention.

In describing my invention I read the drawings from left to right.

My invention is described as follows:—

The base 1, is perfectly level, top and bottom surfaces. Running from each edge of said base inwardly, and inclining upwardly, are flanges 2. The inner edges of these flanges are turned perpendicularly upwardly, forming fish-plates 3, leaving a space between the two, just wide enough to accommodate the webs of the rails. The space left in the joint-chair just exactly fits the shape of the web, base, and flanges of the rails, so that there may be no giving or strain from want of proper fit when the train passes, and in order that the rails may be easily and conveniently thrust into the ends of my joint-chair, the ends of said chair are flared, forming in each end an open mouth 4. The fish-plates 3, of said chair are provided with bolt-holes 5, to accommodate bolts that pass through the elongated holes in the web of the rails. Passing vertically through the base 1, and up through the flanges 2, of the chair, are spike-holes 6, for the accommodation of the spikes that are driven through them into the cross-tie to which said chair is secured.

The flanges 7, of the rails, as will be seen by reference to Fig. 1, extend a little outwardly, beyond the inner walls of said spike-holes, so that when the spikes are driven home, they impinge against the edges of said flanges, thus acting as a wedge, which materially assists the fish-plates in holding said rails in proper position, but as the edges of said rails are perfectly straight this does not prevent the rails from the motion caused by contraction and expansion, and in each edge and near each end of the base are cut notches, or recesses 8, in which spikes fit that are driven into the cross-ties, and therefore assist in holding the said plate firmly to the cross-ties.

Although I have specifically described the combination, construction and arrangement of the several parts of my invention I do not confine myself particularly to such specific combination, construction and arrangement, as I claim the right to make such changes and modification therein as may clearly fall within the scope of my invention, and which may be resorted to without departing from the spirit, or sacrificing any of my patentable rights therein.

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

A railway joint-chair, consisting of a base 1, perfectly flat on its top and bottom surfaces, said base provided at each edge, and near each end, with a recess 8; flanges 2, extending from each edge of said base inwardly, and slightly upwardly, and fish-plates 3, provided with bolt-holes 5, extending vertically from the inner edges of said flanges, leaving between them space for the web of a railway rail, said flanges 2, and base 1, provided with spike-holes 6, their inner sides extending so far inwardly as to allow the edges of the rail flanges to extend outwardly, a little beyond the inner walls of said holes, said chair provided at each end with a flaring mouth, substantially as shown and described, and for the purposes set forth.

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

CALAWAY HERNDON.

Witnesses:
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