

No. 751,957.

PATENTED FEB. 9, 1904.

J. SNEIDER.
CATTLE GUARD.

APPLICATION FILED OCT. 31, 1903.

NO MODEL.

Fig. 1.

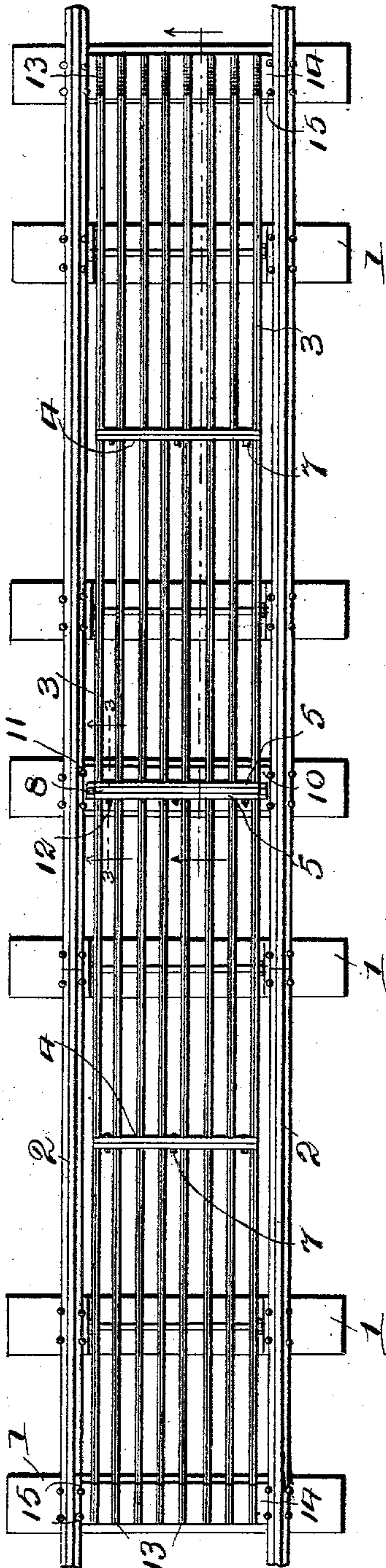


Fig. 2.

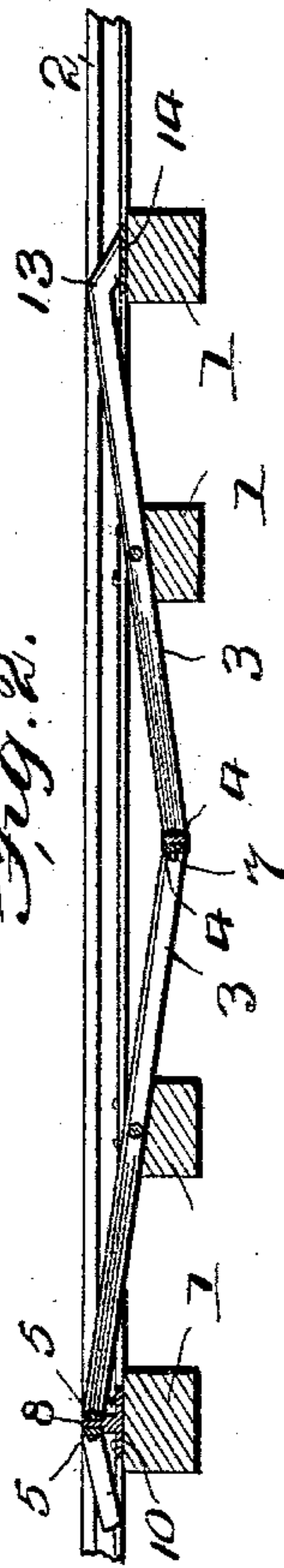


Fig. 3.

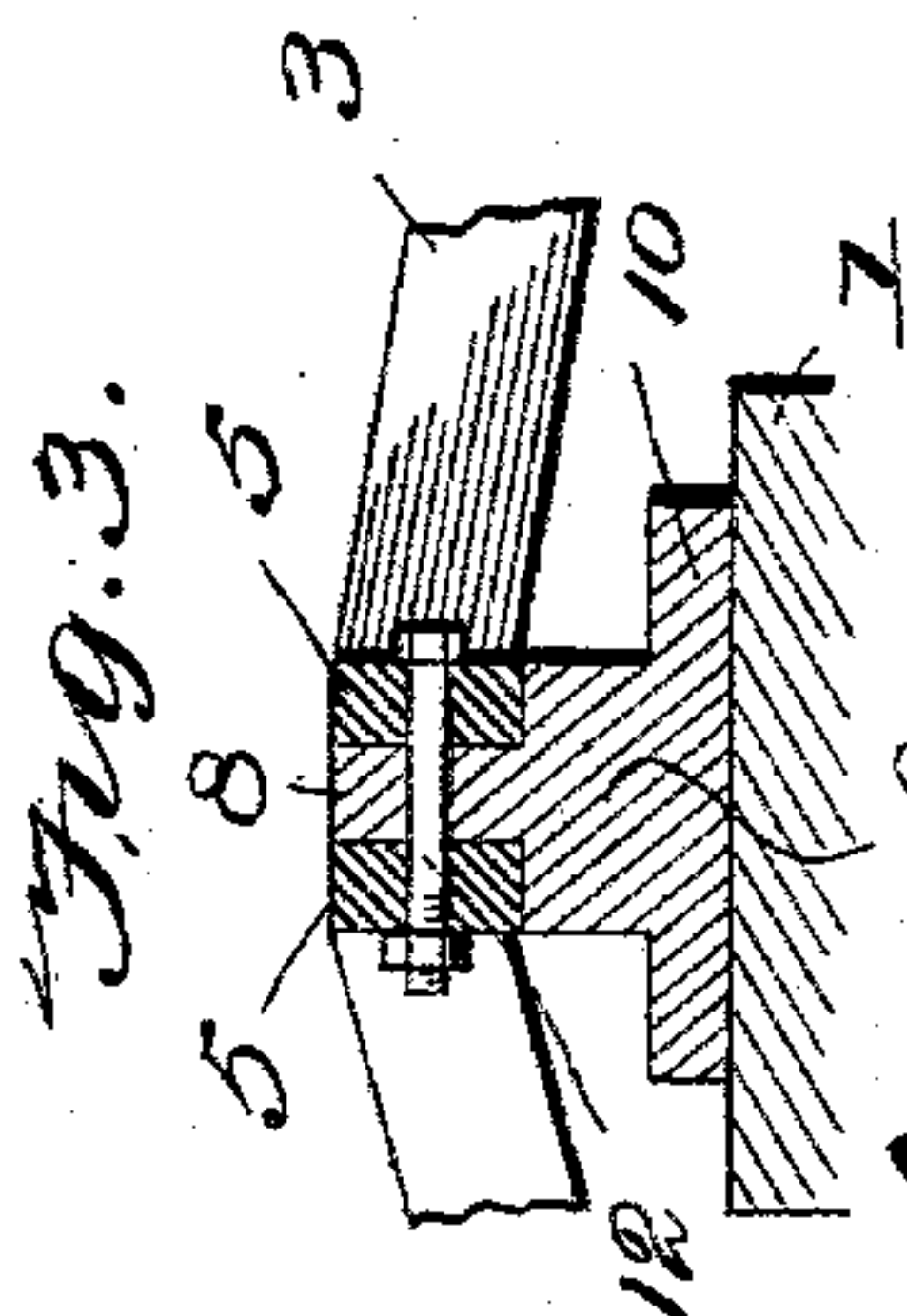
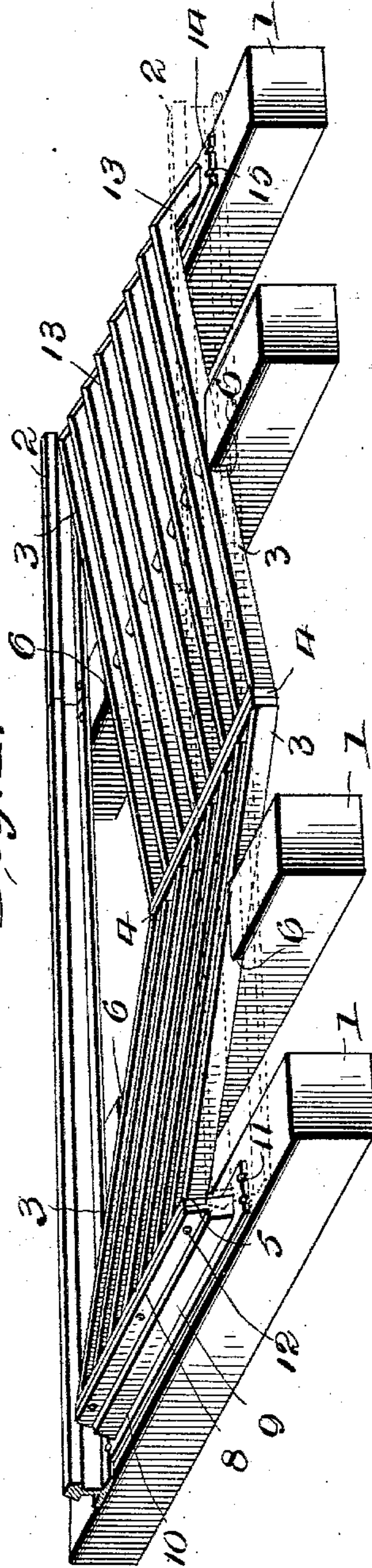


Fig. 4.



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UNITED STATES PATENT OFFICE.

JOSEPH SNEIDER, OF BUCKLEY, WASHINGTON.

CATTLE-GUARD.

SPECIFICATION forming part of Letters Patent No. 751,957, dated February 9, 1904.

Application filed October 31, 1903. Serial No. 179,342. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH SNEIDER, a citizen of the United States, residing at Buckley, in the county of Pierce and State of Washington, have invented certain new and useful Improvements in Cattle-Guards; and I do hereby 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 cattle-guards for railways; and it consists of certain novel features of combination and construction of parts, the preferred form whereof will be hereinafter clearly set forth, reference being had to the accompanying drawings, which are made a part of this application.

The object of my invention, among others, is to provide a simple form of cattle-guard made or built up in sections any one of which may be quickly separated from the other parts, whereby free access is rendered to the pit beneath the guard.

Other objects and advantages will be hereinafter made clearly apparent.

Referring to the drawings, Figure 1 shows a top plan view of my invention complete as applied to use upon a railway-track. Fig. 2 is a sectional view indicated by the section-line between the arrows in Fig. 1. Fig. 3 is a sectional view, on a slightly-enlarged scale, of a portion of my invention, taken on line 3 3 of Fig. 1. Fig. 4 is a perspective detail view of a portion of my cattle-guard as applied to use, one of the track-rails being removed.

For convenience of reference the various details of my invention and cooperating accessories will be referred to by numerals, the same numeral applying to a similar part throughout the several views, and, referring to the numerals on the drawings, 1 indicates a series of cross-ties of the usual or any desired construction, to which the track-rails 2 are secured in any preferred way. It will be understood that the cross-ties 1 may be supported in any suitable manner, as by beams (not shown) running longitudinally with the track, whereby a pit may be provided to accommodate my cattle-guard.

Cattle-guards, as will be understood, are usually employed to connect the line of fence on each side of a roadway or grade-crossing and are designed to prevent animals from leaving the roadway and following the track. My railway-guard comprises a plurality of bars 3, disposed longitudinally with the trackway and connected together at each end by the integrally-formed cross-heads or plates 4 and 5, there being a sufficient number of said bars to extend from rail to rail, with spaces of proper extent between them.

The plates or cross-heads 4 are so fastened or secured to the ends of the bars 3 that they will lie in a vertical plane, while the bars 3 are disposed in a slightly-inclined position, and in order to provide a suitable seat for the support of a plurality of bars 3 I form in the upper surface of the contiguous ties a suitable recess or bend 6, designed to receive and support the assembled bars. This inclined position of the plurality of bars or guard-rails 3 will dispose the plates or cross-heads 4 parallel with or snugly against each other, whereby they may be bolted together, the locking-bolt being indicated by the numeral 7 in Fig. 2 and other views. In like manner the opposite ends of the bars are connected together with the cross-head or plate 5, also disposed in a vertical plane, whereby it may be bolted directly to the side of the flange 8, carried by the beam 9, having the base-plate 10, which is adapted to be secured directly to the upper surface of one of the cross-ties, as more clearly shown in Fig. 3.

Each end of the base-plate or flange 10 is provided with one or more recesses 11, whereby a spike may be driven into the tie in engagement therewith. The plate or flange 10 is of sufficient extent to lie between the flanges of the track-rails, thereby leaving sufficient space between the flanges and the rails to permit a spike to be driven into the recesses 11 or freely withdrawn therefrom when it is desired to remove any part or section of my cattle-guard.

The cross-heads or plates 5 are bolted directly to the flange 8 as by means of a plurality of locking-bolts 12, and it is therefore obvious that when any of the bars 3 or other

part of my guard has become broken proper repair may readily be made by taking out one of the sections or bars by removing the bolts 12, as will be readily understood.

5 If it should be desirable to remove the anchoring member 9, all that will be necessary will be to withdraw the spike or spikes which may have been driven in the recesses 11, thus permitting said anchoring member to be
10 quickly removed and replaced.

I prefer to form the outer ends of my cattle-guard as shown in Fig. 4, wherein it will be observed that the outer or free ends of the bars 3 are so formed as to have an obliquely-
15 disposed terminal section 13, which is integrally formed with the anchoring-plate 14, having end recesses 15 whereby said plate may be secured directly to the contiguous cross-tie.

20 If preferred, one of the ties may be cut away upon its upper side to provide a support for the plurality of bars 3, or an individual recess for each bar may be formed in a contiguous part of the tie, thereby insuring that
25 said bars will be reliably supported and sustained against lateral movement or the strain placed thereon incident to use.

While I have described the preferred con-

struction and combination of parts deemed necessary in carrying out my invention, I de- 30
sire to comprehend in this application all substantial equivalents and substitutes that may be considered as falling fairly within the scope of my invention.

Having thus fully described my invention, 35
what I claim as new, and desire to secure by Letters Patent, is—

The herein-described cattle-guard comprising a plurality of bars 3 arranged in sections and normally resting in an oblique plane rela- 40
tive to the plane of the trackway, the ends of said bars being attached to suitable plates, one end of each outer section of bars having downwardly-directed and obliquely-disposed extensions 13 attached to one of said plates, 45
in combination with an anchoring member 9 having suitable end and side flanges and a rib-section 8 upon its upper surface, to which two of said plates may be removably attached, as set forth. 50

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

JOSEPH SNEIDER.

Witnesses:

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