

No. 837,842.

PATENTED DEC. 4, 1906.

L. A. JUNGMAN.

CATTLE GUARD.

APPLICATION FILED MAY 14, 1906.

2 SHEETS—SHEET 1.

Fig. 1.

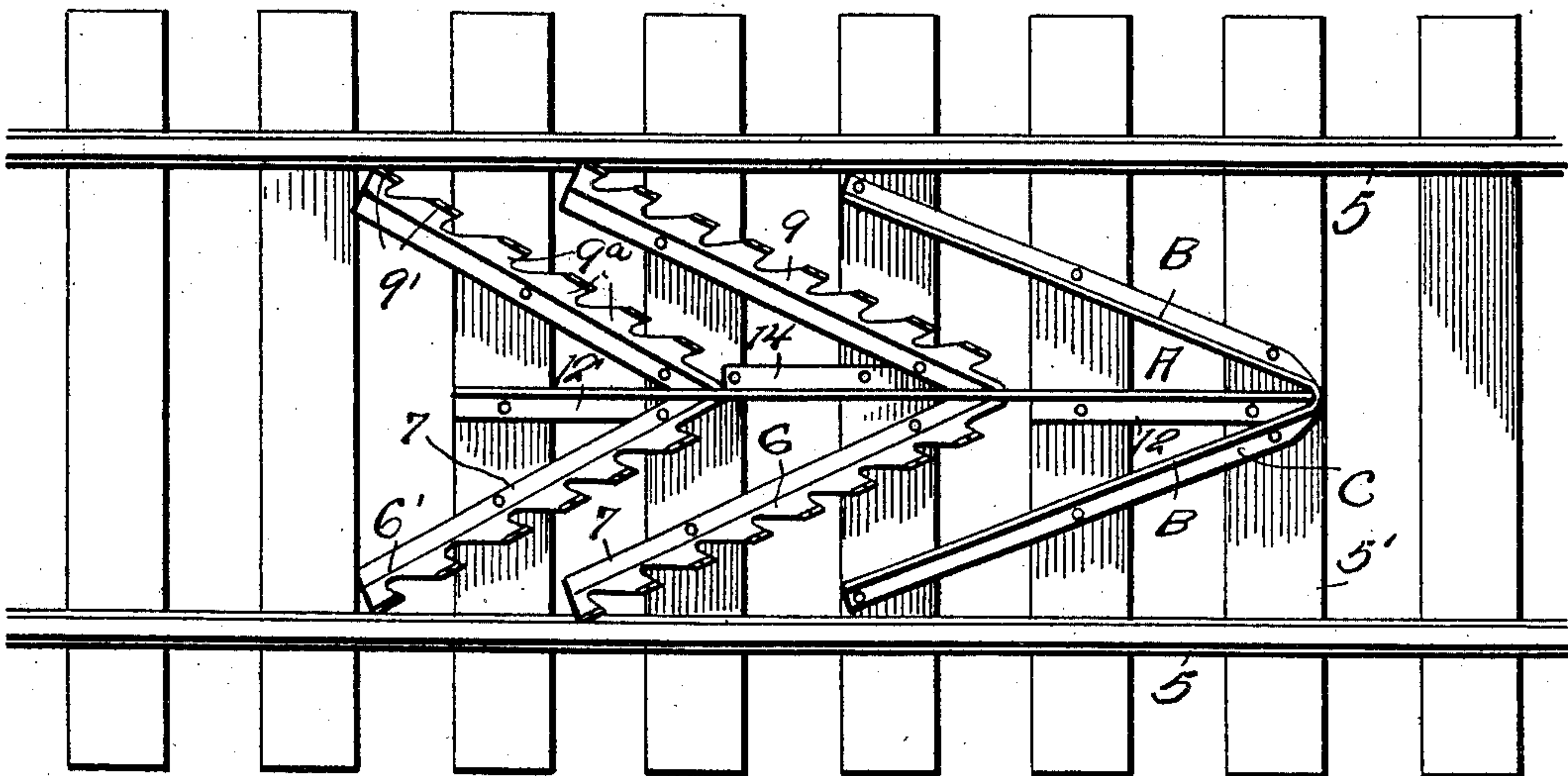
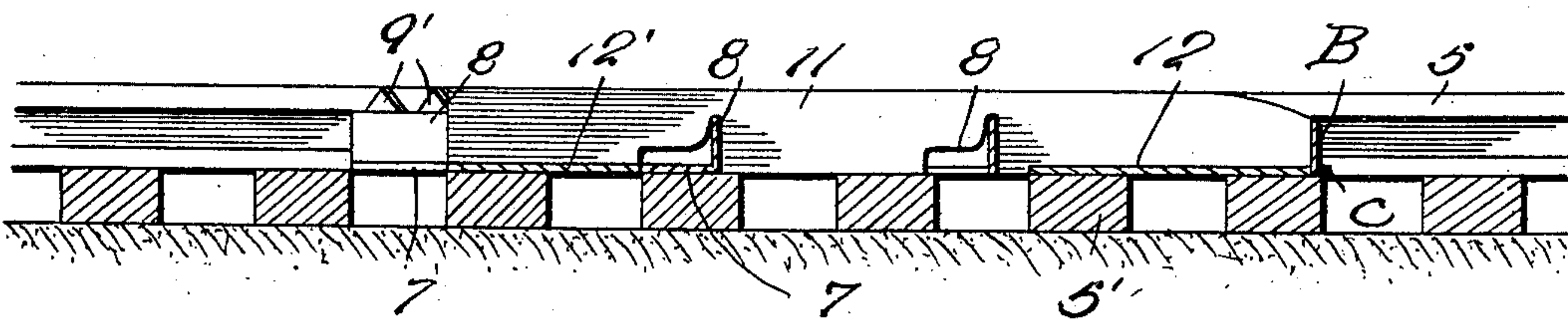


Fig. 2.



Witnesses

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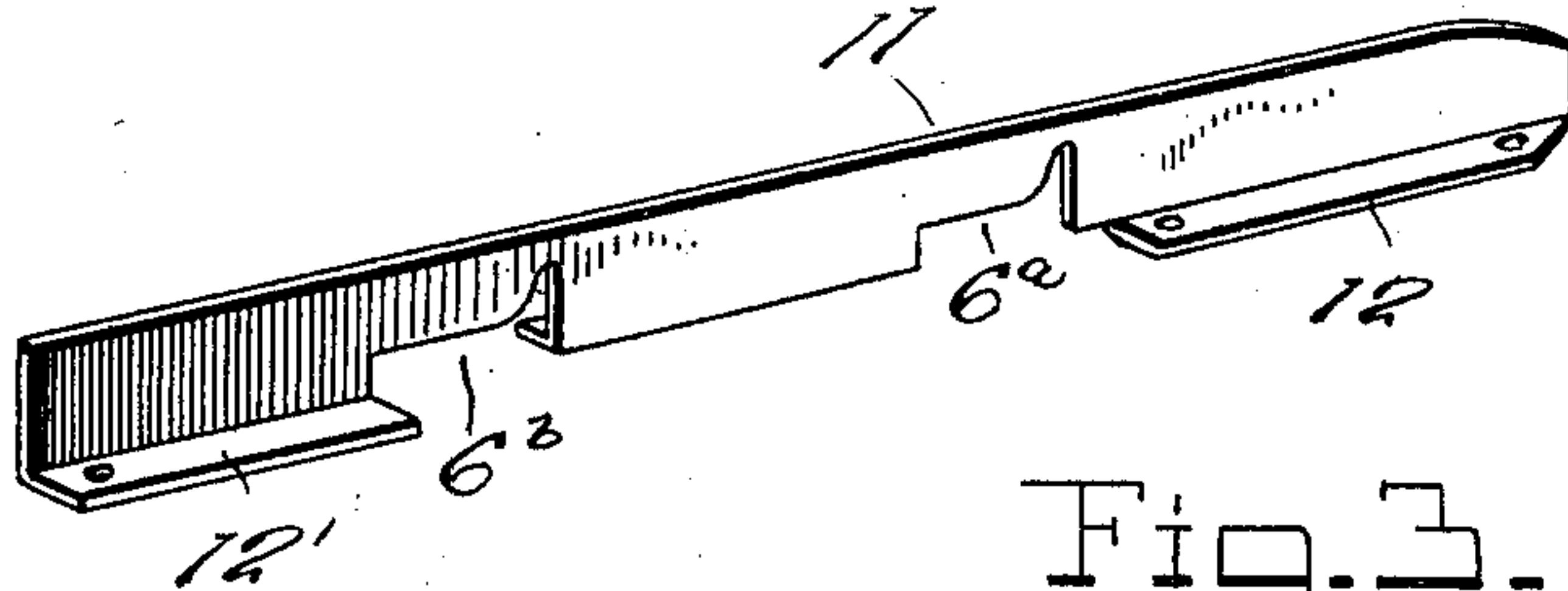
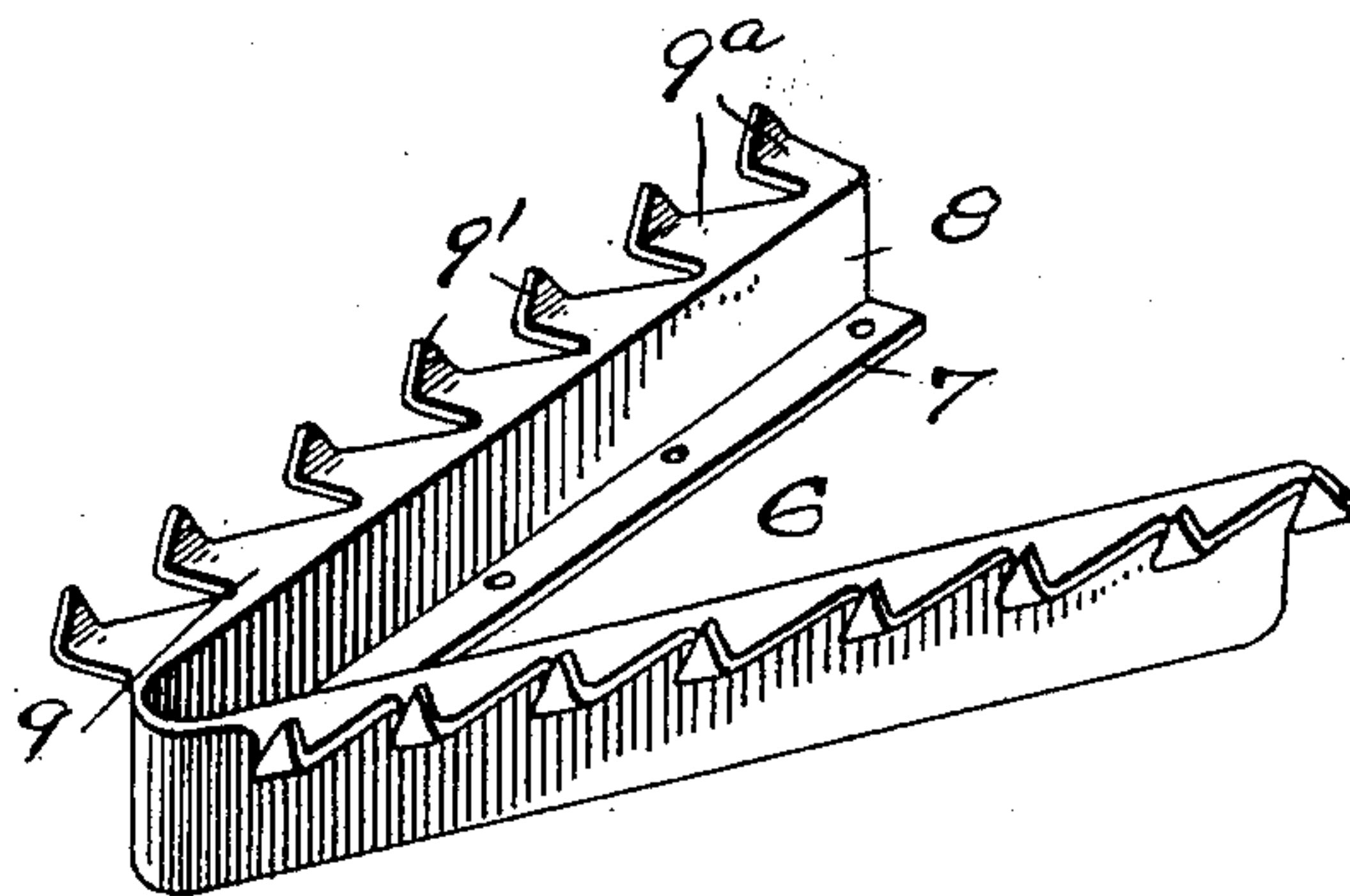
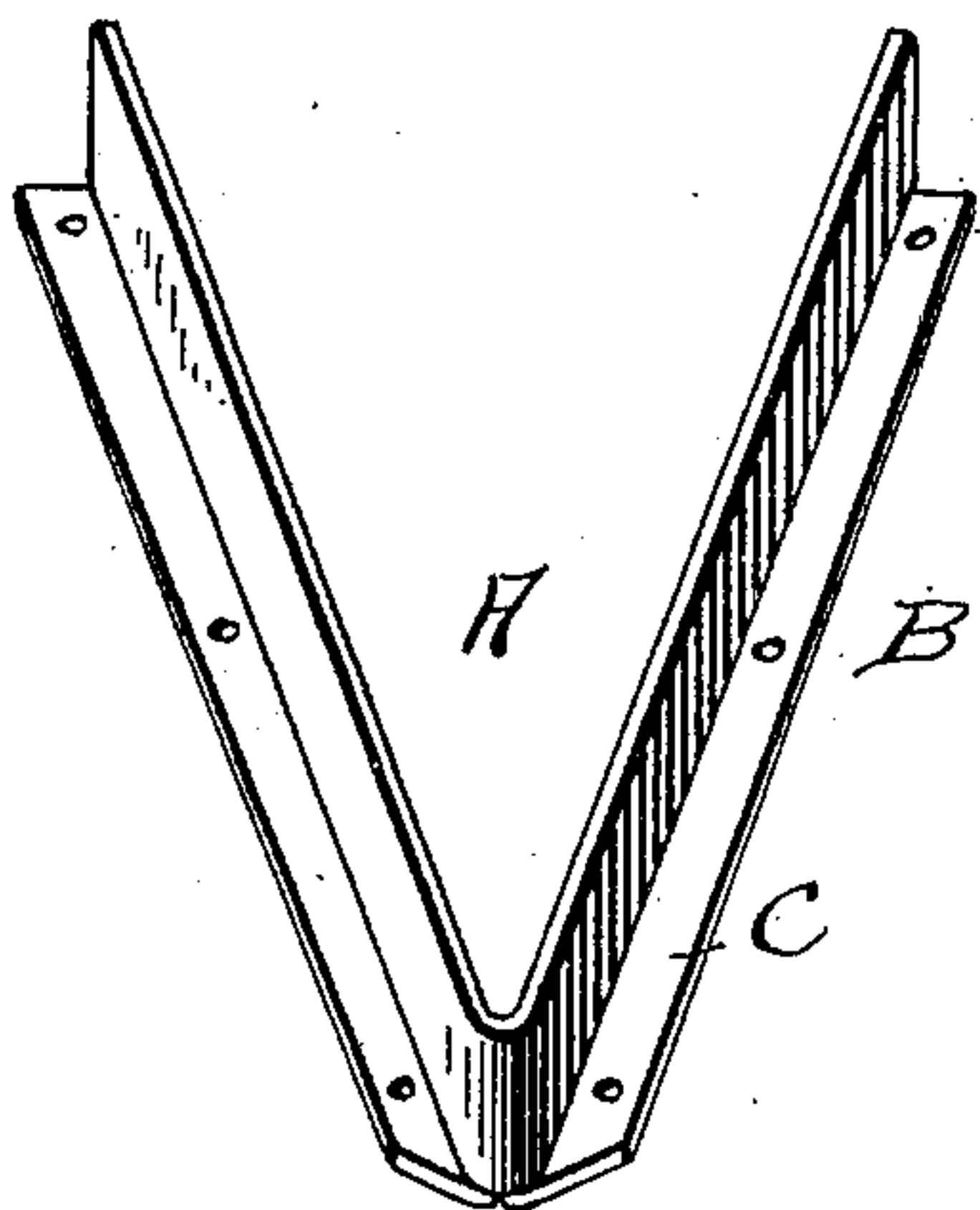


Fig. 4.



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# UNITED STATES PATENT OFFICE.

LEO A. JUNGMAN, OF HAMILTON, TEXAS.

## CATTLE-GUARD.

No. 837,842.

Specification of Letters Patent.

Patented Dec. 4, 1906.

Application filed May 14, 1906. Serial No. 316,800.

*To all whom it may concern:*

Be it known that I, LEO A. JUNGMAN, a citizen of the United States, residing at Hamilton, in the county of Hamilton, State of Texas, 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.

This invention relates to railways, and more particularly to cattle-guards for use in connection therewith, and has for its object to provide a guard arranged to prevent the passage of stock over the tracks.

Another object is to provide a guard of simple structure and arrangement, which may be made from sheet-metal, and thus produced at a low figure, and which may be easily and securely fastened in position.

Other objects and advantages will be apparent from the following description, and it is to be understood that I do not desire to be limited to the exact details of construction shown and described, for obvious modifications will occur to a person skilled in the art.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a plan of the present invention applied to a track. Fig. 2 is a longitudinal section taken at one side of the central member. Fig. 3 is a perspective view of the central member. Fig. 4 is a perspective view of the forward guard member, and Fig. 5 is a perspective view of one of the barbed guard members.

Referring now to the drawings, there is shown a track including rails 5 and cross-ties 5', and secured between the rails there are the several portions comprising the present guard. These portions include what for convenience will be termed a "forward guard member" A, of V shape and including rearwardly-divergent vertical portions B, having outwardly-extending base-flanges C secured to the ties, this member A having its apex disposed upon one of the ties midway between the rails. This guard member is formed integrally of sheet metal bent into the desired form, as will be readily understood.

Two rearward guard members 6 and 6' are provided, having the same form as the member A, these rearward members including

vertical portions 8 and inwardly-extending base-flanges 7. The vertical portions 8 have outwardly-extending horizontal portions 9 connected with their upper edges, these portions 9 being notched to form forwardly-directed barbs 9<sup>a</sup>, having their extremities turned upwardly, as shown at 9'.

The member 6 lies with its apex between the divergent portions of the member A, and the member 6' is similarly disposed with respect to the member 6, the base-flanges of the several members being secured to the sides. In connection with these V-shaped members there is employed a longitudinally-extending central securing member including a vertical plate 11, disposed with its forward end in the apex of the member A and having cut-away portions 6<sup>a</sup> and 6<sup>b</sup>, respectively, which receive the apices of the members 6 and 6', respectively, the vertical portions 8 of these members extending into the cut-away portions. Forwardly and rearwardly of these cut-away portions the plate 11 has base-flanges 12 and 12', respectively, which are turned horizontally at a common side of the plate and which are secured to the ties, and at its opposite side between the cut-away portions the plate 11 has a horizontally-extending base-flange 14, which is also secured to the ties.

It will thus be seen that a guard is provided which includes a plurality of V-shaped members extending one into another, certain of the members having roughened upwardly-directed portions, while another member has an unbroken upper edge, the guard including also a strengthening-plate arranged to prevent accidental displacement of the parts and forming a portion of the guard, the structure, while being extremely simple, presenting an efficient arrangement.

I claim—

1. A cattle-guard comprising a plurality of V-shaped members extending one within another, certain of said members having upwardly-directed barbs, and certain of said members having smoothed upper portions, and a member engaged with the V-shaped members and extending therebetween.

2. In a cattle-guard, the combination with members having smoothed and barbed upper portions respectively, of a member disposed at one end against one of said first-named members and having a cut-away portion in which the second-named member is received.

3. A cattle-guard comprising a plurality of

V-shaped members including vertical portions and laterally-extending base-flanges, said members extending at their apices one into another, certain of said members having  
5 laterally-extending barbs at the upper edges of their vertical portions, said barbs having their extremities turned upwardly, and a longitudinally-extending vertical plate, disposed with an end in the apex of one of the  
10 members and having cut-away portions in

which the vertical portions of the other members are engaged at their apices, said plate having laterally-extending base-flanges.

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

LEO A. JUNGMAN.

Witnesses:

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W. P. BROWN.