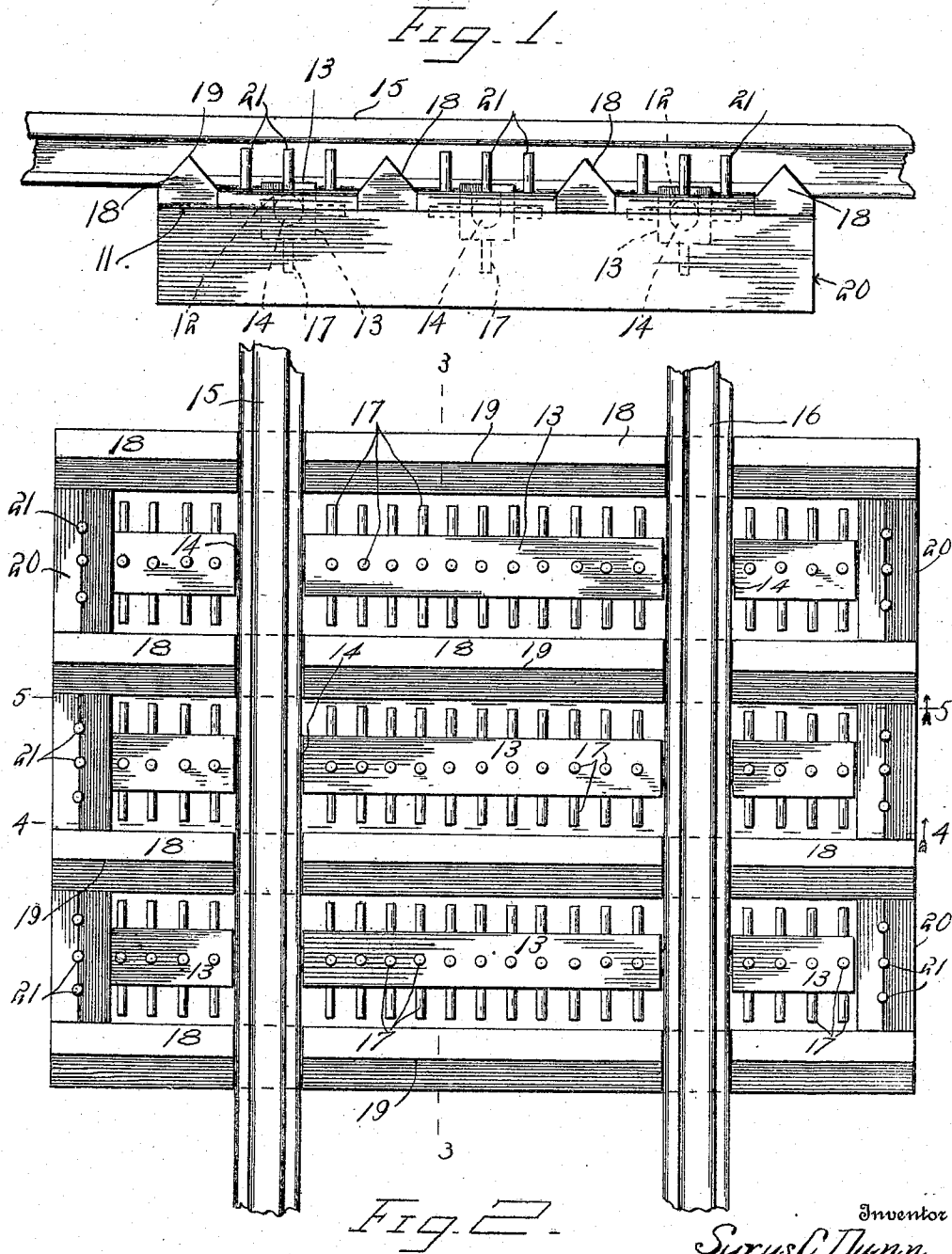


S. C. DUNN.
CATTLE GUARD.
APPLICATION FILED JUNE 12, 1909.

942,059.

Patented Dec. 7, 1909.
2 SHEETS—SHEET 1.



Witnesses
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2 SHEETS—SHEET 2.

Fig. 3

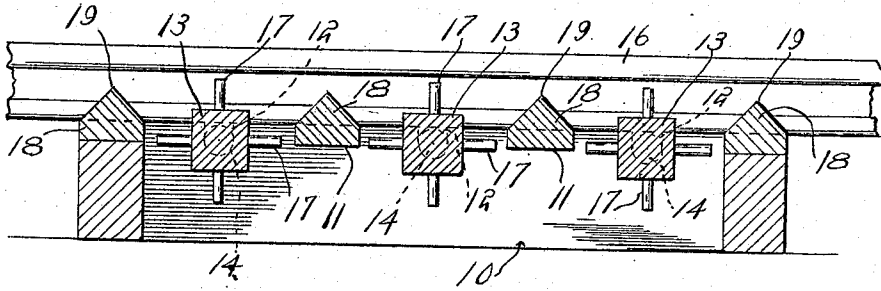


Fig. 4

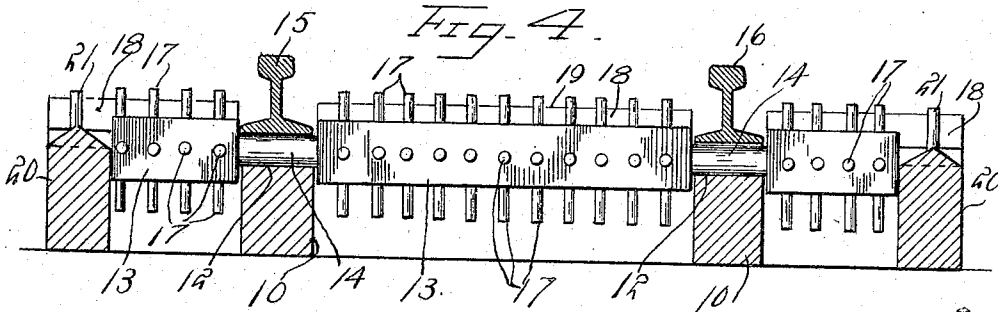
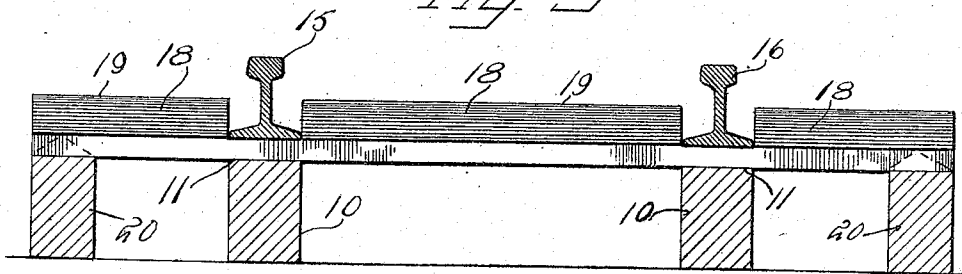


Fig. 5



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UNITED STATES PATENT OFFICE.

SYRUS C. DUNN, OF JOINER, ARKANSAS.

CATTLE-GUARD.

942,059.

Specification of Letters Patent.

Patented Dec. 7, 1909.

Application filed June 12, 1909. Serial No. 501,855.

To all whom it may concern:

Be it known that I, SYRUS C. DUNN, a citizen of the United States, residing at Joiner, in the county of Mississippi, State of Arkansas, 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 improvements in cattle guards employed in connection with railway crossings and similar localities, and has for one of its objects to improve the construction and increase the efficiency and utility of devices of this character.

With this and other objects in view, the invention consists in certain novel features of construction as hereafter shown and described and then specifically pointed out in the claims, and in the drawings illustrative of the preferred embodiment of the invention, Figure 1 is a side elevation of the improved device. Fig. 2 is a plan view of the same. Fig. 3 is a section on the line 3—3 of Fig. 2. Fig. 4 is a section on the line 4—4 of Fig. 2. Fig. 5 is a section on the line 5—5 of Fig. 2.

The improved device comprises two sill or stringer members 10 located beneath the rails and forming the supports for the rails over the pit when one is employed or embedded in the road bed when the device is located at points where no pits or ditches occur. The members 10 are each secured to the rails by the usual spikes or other suitable fastening devices, and are each formed with a plurality of spaced recesses 11 and spaced half bearings 12, the bearings and recesses being arranged alternately as shown. Extending transversely of the rails are a plurality of rollers 13, each roller being preferably square transversely and with reduced bearings 14 to engage the bearings 12 of the sill members, the reduced portions being thus located at the points where the rails occur, the rails being represented respectively at 15—16. By this means the rollers extend between the rails and likewise beyond the same at each end, and will preferably be about as long as the ordinary railway tie. The rollers, as before stated, are preferably square, and extending from each side of the rollers are spaced pins 17, the pins

being thus turned in all directions from the rollers.

As many of the rollers may be employed as required, but for an ordinary size of guard three of the rollers will be sufficient.

Bearing within each of the recesses 11 is a transverse tie member 18, the upper face of the tie member being pointed or angular as shown at 19, the tie members 18 extending between the ties and beyond the same, and provided with notches where the rails occur, to receive the rails, so that the upper faces of the tie members extend above the lower lines of the rails.

The rollers 13 and the ties 18 are arranged alternately and any required number may be employed, but for the purpose of illustration five of the tie members and three of the rollers are employed, as shown.

The outer ends of the tie members 18 are formed to receive longitudinal string pieces 20, the latter having angular upper edges and provided with upwardly directed spaced pins 21. The tie members and rails and the string members 20 are arranged sufficiently far beyond the outer faces of the rails so that they will not interfere with the rolling stock, so that guard fences may be arranged to entirely shut off all access to the space occupied by the guard, so that the stock will be effectually prevented from passing along the railway track at the points where the guard is located. The animals will be effectually repulsed by the rotating rollers and the angular and pointed tie members, and the pointed and spiked stringers 20.

The improved device is simple in construction, can be inexpensively manufactured and applied wherever a device of this character is required and will effectually prevent stock from passing along the railway track.

What is claimed is:—

1. A device of the class described comprising longitudinal stringer members adapted to bear beneath the railway rails and provided with alternate bearings and recesses, a plurality of transverse members spaced apart and bearing in the recesses of the stringer members and extending between the rails and beyond the same at each end, a plurality of outer stringer members bearing beneath the terminals of the transverse members at their outer ends, pins extending from said outer stringer members, a plu-

ality of rollers having radially extending pins and with journals engaging said bearings with their terminals adjacent to the outer stringer members.

- 5 2. A device of the class described comprising main stringer members adapted to bear beneath the railway rails and provided with alternately arranged bearings and recesses, a plurality of rollers having radially
10 extending pins with journals engaging said bearings, a plurality of tie members sup-

ported in said recesses and with pointed upper faces, and stringer members connected to said tie members and having pointed upper faces and upwardly directed pins. 15

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

SYRUS C. DUNN.

Witnesses:

J. A. MUSICK,
A. W. LOYALL.