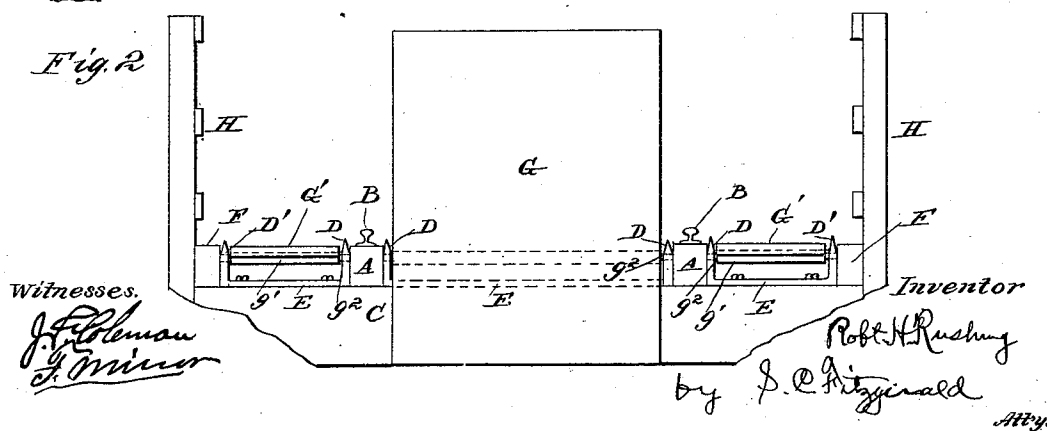
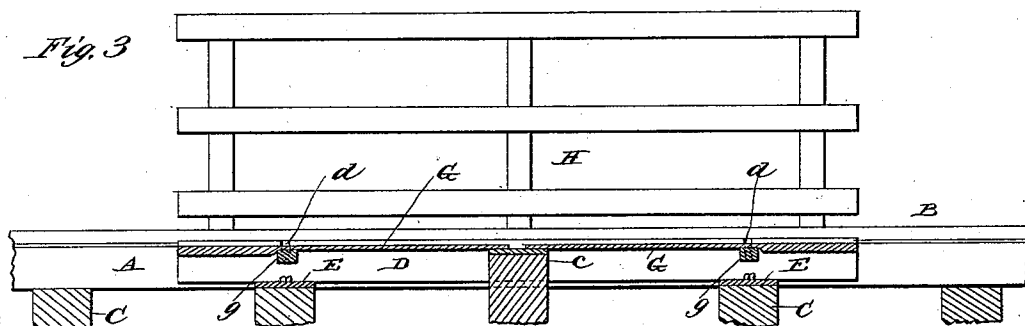
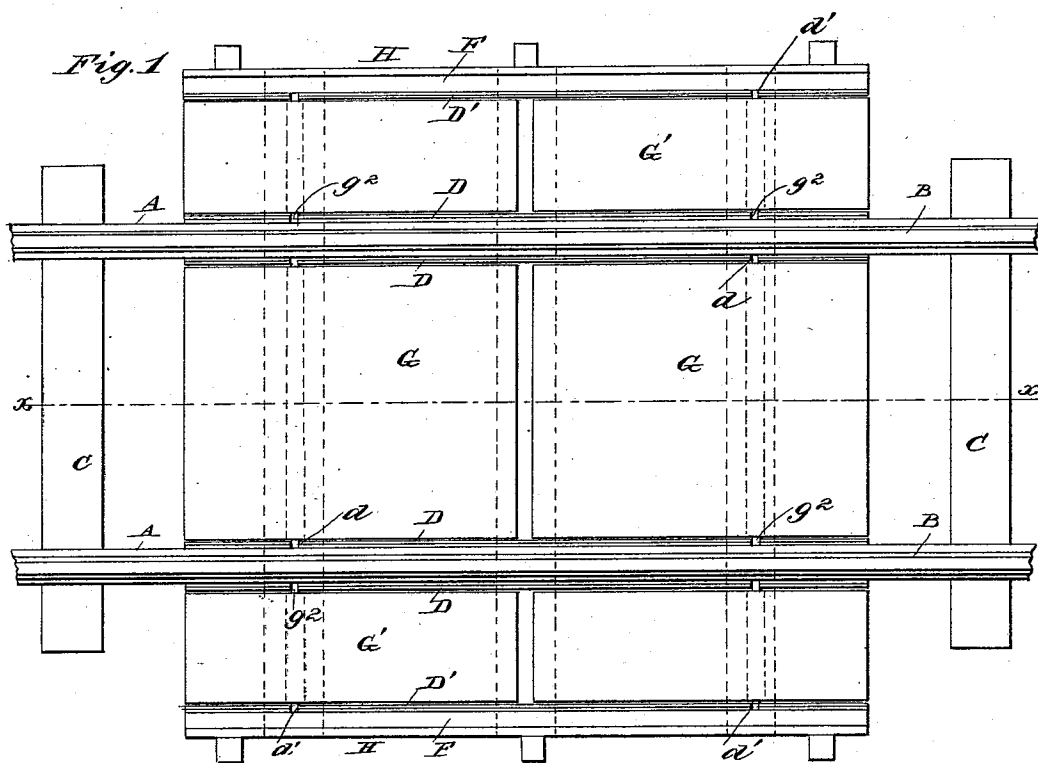


(No Model.)

R. H. RUSHING.
CATTLE GUARD FOR RAILROADS.

No. 541,688.

Patented June 25, 1895.



UNITED STATES PATENT OFFICE.

ROBERT HENDERSON RUSHING, OF TENNESSEE CITY, ASSIGNOR OF TWO-THIRDS TO W. E. CULLUM AND J. W. HUTCHINSON, OF DICKSON COUNTY, TENNESSEE.

CATTLE-GUARD FOR RAILROADS.

SPECIFICATION forming part of Letters Patent No. 541,688, dated June 25, 1895.

Application filed March 29, 1895. Serial No. 543,690. (No model.)

To all whom it may concern:

Be it known that I, ROBERT HENDERSON RUSHING, a citizen of the United States, residing at Tennessee City, in the county of Dickson, State of Tennessee, have invented certain new and useful Improvements in Cattle-Guards for Railroads; 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 improvements in cattle guards for railroads.

The invention will first be described in connection with the accompanying drawings, and then particularly pointed out in the claims.

In the drawings, Figure 1 is a plan view of my device, showing same in operation. Fig. 2 is an end view showing one of the platforms in a raised position. Fig. 3 is a cross-section through line *x x*, Fig. 1.

Referring to the drawings, A are rail stringers on which the rails B are laid. Beneath these rail stringers are cross ties C, the central one of which is somewhat higher than the others as shown at *c*, for a purpose hereinafter described. At each side of the stringers are secured what I term guard strips D having sharp or beveled upper edges, these guard strips being welded at the bottom edges of a series of tie-bars E lying on top of the ties and preferably bolted to the same. At each end of the cross ties is secured an auxiliary or side stringer F, and on the inside of these stringers are secured guard strips D' also secured to the tie-bars E by welding. The guard strips D and D' are preferably bolted or spiked to the stringers A and F to assist in holding them in an upright position, and are provided with bearings *d* and *d'*, in which are journaled a series of central and side platforms G, G', provided with cross bars *g*, *g'*, which have arbors *g²* at each end that rest in bearings *d*, *d'*, and serve as trunnions for tilting platforms. These platforms are made

with their inward extending ends much thinner than the outward extending ends, and the trunnions are located nearer the outer ends, the whole construction being such that the inner ends are only slightly heavier than the outer ones, so as to hold the platforms in their normal positions, yet permitting them to tilt readily when stepped upon by cattle or other animals, whereby the platforms rise up and prevent farther progress of the animal across the guard. The inner ends of the platform meet and rest upon a central cross tie *c* which being higher than the others holds the platforms in their normal positions which is practically horizontal.

At each side of the guard are placed guard panels H, and fences, as in the usual construction.

It is to be specially noted that in my construction the guard strips project above the stringers to prevent the cattle from walking on said stringers, and are welded to the bars, as before described. This holds the guard strips from working sidewise or springing toward or from each other as is common in those cattle guards with which I am acquainted. Moreover, the guard strips also perform the function of carrying the trunnions of the platforms and being welded to the bars, as before mentioned, they cannot shift longitudinally independent of each other, whereby all danger of throwing the two bearings of each platform out of alignment is avoided.

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

1. In a cattle guard, the combination, with a series of cross ties, a series of tie-bars carried on the ties, a pair of rail stringers and a pair of side stringers, of a series of guard strips parallel to the stringers and projecting above them, said guard strips being welded to the tie-bars, and a series of tilting platforms trunnioned on the guard strips, substantially as and for the purpose described.

2. In a cattle guard, the combination, with

a pair of rail stringers and a series of guard strips projecting above the stringers and provided with bearings and with knife edges, of a series of platforms provided with cross bars
5 on their under sides, which cross bars have arbors resting in the bearings in the guard strips, the platforms being thinner at their inner ends than at their outer ends, and the

trunnions located nearer the outer ends, substantially as and for the purpose described. 10

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

ROBERT HENDERSON RUSHING.

Witnesses:

W. H. LEONARD,
F. M. LUCAS.