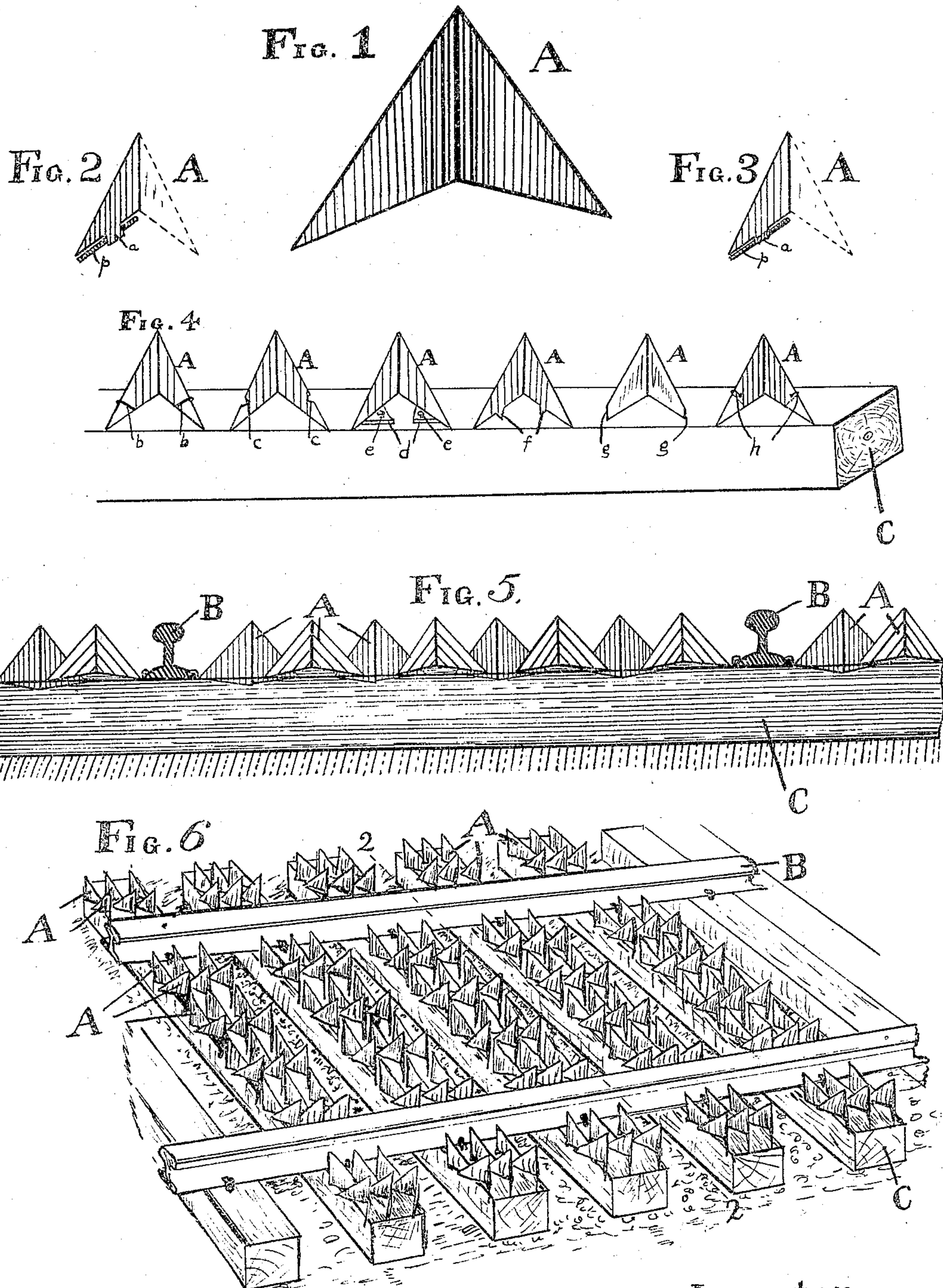


No. 793,750.

PATENTED JULY 4, 1905.

F. E. STROUSE.
RAILWAY CATTLE GUARD.
APPLICATION FILED JAN. 7, 1905.



Witnesses
Olwood Hunt
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UNITED STATES PATENT OFFICE.

FRANK EWING STROUSE, OF ROCKVILLE, INDIANA.

RAILWAY CATTLE-GUARD.

SPECIFICATION forming part of Letters Patent No. 793,750, dated July 4, 1905.

Application filed January 7, 1905. Serial No. 240,044.

To all whom it may concern:

Be it known that I, FRANK EWING STROUSE, a citizen of the United States, residing at Rockville, in the county of Parke and State of Indiana, have invented certain useful Improvements in Railway Cattle-Guards, of which the following is a specification.

The novel construction employed by me in carrying out my invention is described and claimed in this specification and illustrated in the accompanying drawings, forming a part thereof, in which the same parts are represented by the same letters throughout the several views.

Figure 1 is a perspective view of one of my bent triangles. Figs. 2, 3, and 4 show methods of fastening the bent triangles to plates and to the ties. Fig. 5 represents a transverse section made by the plane 2 2 in Fig. 6. Fig. 6 is a perspective view of a railroad-track equipped with one of my improved cattle-guards.

A represents my improved triangles, B the track-rails, and C the cross-ties.

I form of plate-iron, steel, or other suitable material right isosceles triangles, in height equal to the height of the rails and bent at the center from apex to base. I do not wish to be limited to the size and number of the triangles used, as both may be modified without departing from the spirit of my invention. The bent isosceles triangles may be constructed with small rectangular projections *a*, Fig. 2, on their bases, which extend through holes in plate *p* and are cleated to the under side of the plate. Fig. 3 shows the projection after it is cleated to the plate. They may be constructed with projections, in triangular shape, bent at right angles to the base, as *d*, Fig. 4, with holes for rivets *e e* for riveting to a plate. The triangles may be fastened to the ties by staples *b b* at right angles to the edges over the points which rest on the tie.

They may be fastened with a bent spike *h*, or a spike with a hook on it, at right angles to the edges over the points which rest on the tie. The triangles may be constructed with notches *c c* for the staples or the bent spikes to rest in. They may be constructed with points *f* for fastening into the tie, extended from the bases resting on the tie. They may be constructed with projections *d*, in triangular shape, bent at right angles to the bases, similar to above description for riveting to a plate, but with larger holes for spikes *e e* to fasten to the tie. If objectionable to allow the points on the bases of the triangle to extend beyond the tie or plate, the projections may be cut off. These triangles are arranged thickly upon the ties, as shown in Figs. 5 and 6.

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

1. A cattle-guard constructed of isosceles triangles, made of plate-iron, steel, or other suitable material, and bent at the center from apex to base and thickly placed and fastened upon the top surfaces of a series of cross-ties, substantially as described.

2. A cattle-guard constructed of isosceles triangles, made of plate-iron, steel, or other suitable material, and bent at the center from apex to base and thickly placed and fastened to plates of iron, steel or other suitable material, and which plates in turn are fastened upon the top surfaces of a series of cross-ties, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FRANK EWING STROUSE.

Witnesses:

FRED. W. HIXSON,
ELWOOD HUNT.