

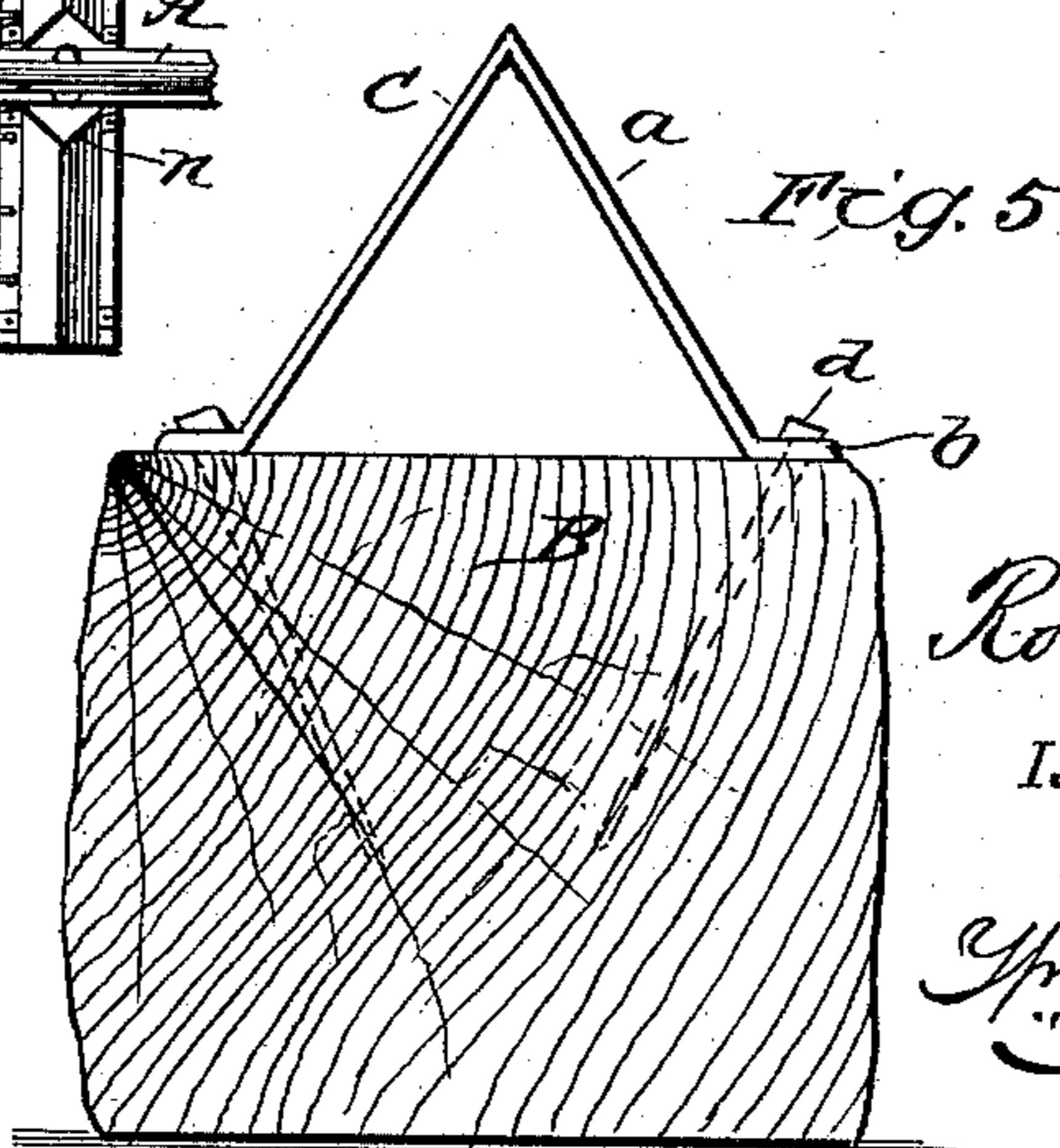
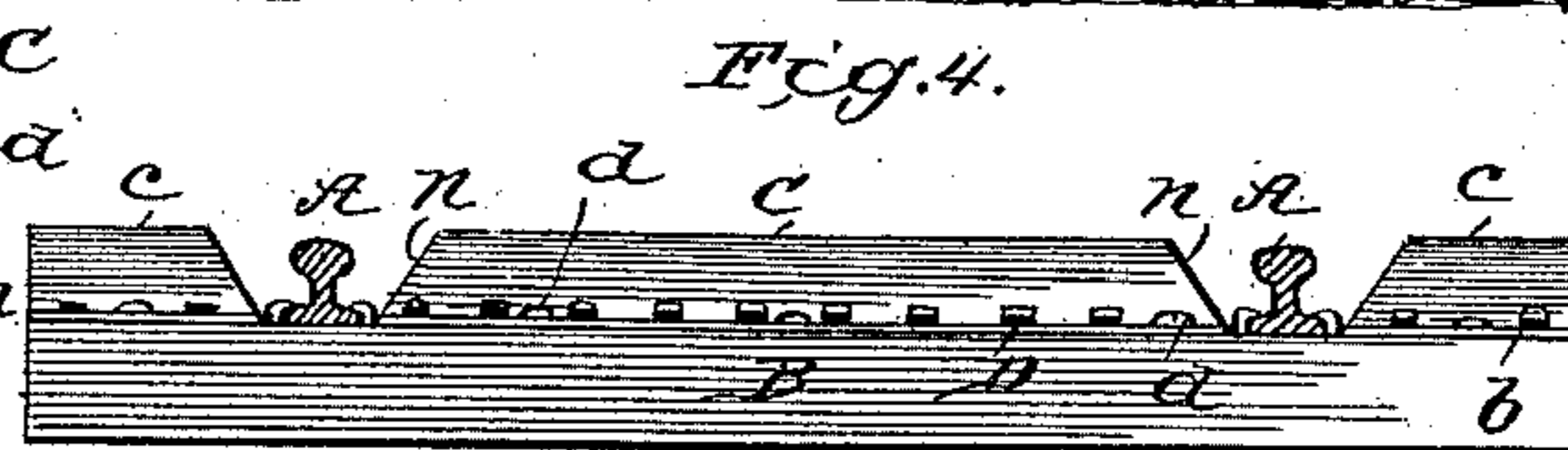
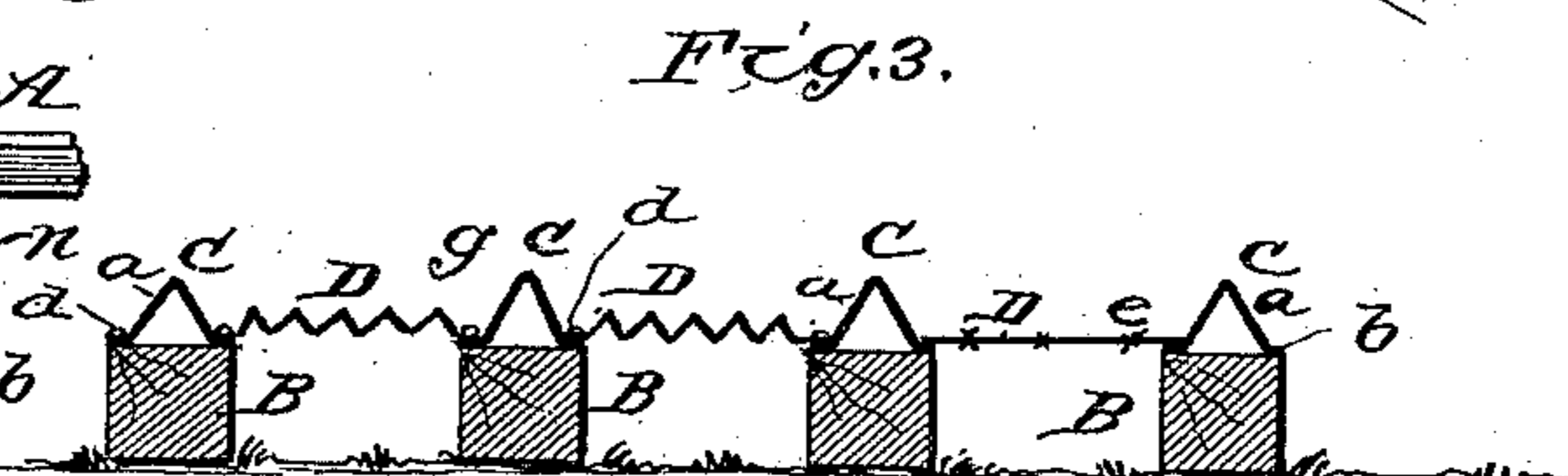
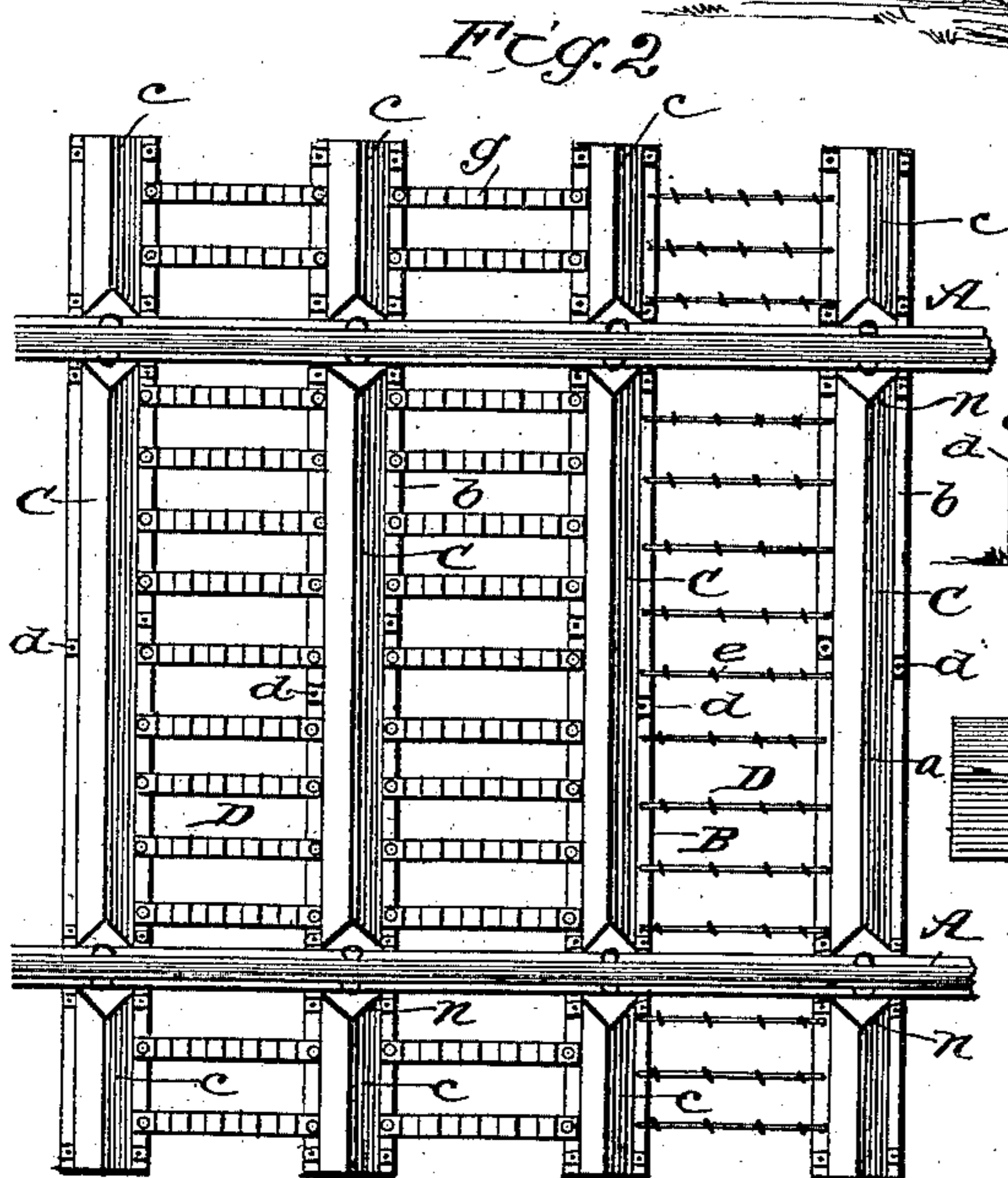
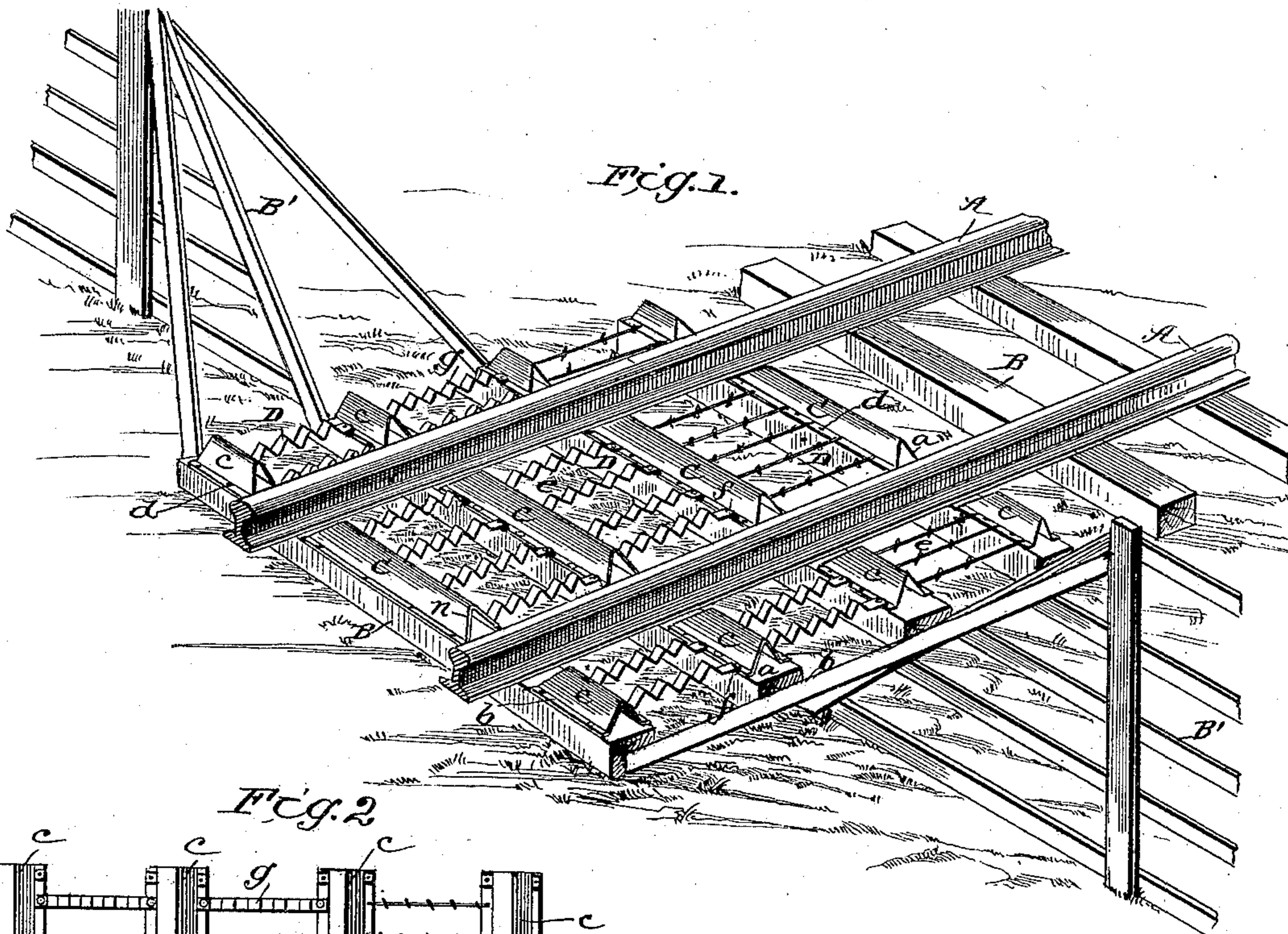
(No Model.)

R. H. ELLIOTT.

CATTLE GUARD FOR RAILROAD TRACKS.

No. 387,218.

Patented Aug. 7, 1888.



WITNESSES.

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ROBERT H. ELLIOTT, OF BIRMINGHAM, ALABAMA.

CATTLE-GUARD FOR RAILROAD-TRACKS.

SPECIFICATION forming part of Letters Patent No. 387,218, dated August 7, 1888.

Application filed February 24, 1888. Serial No. 265,095. (No model.)

To all whom it may concern:

Be it known that I, ROBERT H. ELLIOTT, a citizen of the United States, residing at Birmingham, Jefferson county, Alabama, have invented new and useful Improvements in Cattle-Guards for Railroad-Tracks, of which the following is a specification.

This invention relates to certain new and useful improvements in cattle guards for railroads; and it consists, substantially, in such features thereof as will hereinafter be more particularly described or pointed out.

My invention is designed to overcome many of the defects heretofore existing in this class of inventions, and has for its object to provide a guard that will effectually prevent cattle from entering adjoining fields to which ingress is afforded by reason of a railroad traversing them, and also to provide an efficient guard for railway-crossings, or wherever such guard is needed, all as will more fully hereinafter be understood when taken in connection with the accompanying drawings, wherein—

Figure 1 represents in perspective a cattle-guard of my invention as when arranged at the opening in a fence through which the railroad extends. Fig. 2 represents a top plan view of my improved cattle-guard. Fig. 3 is a transverse sectional view; Fig. 4, a side view, and Fig. 5 is a view in detail showing the manner in which the angle-caps are secured to the cross-ties.

In carrying my invention into effect, for a suitable distance each side of the fence-opening I securely fasten or attach to the upper side of each cross-tie a cap or cover of metal of such shape as to present a continuous angular surface, by which to render it impossible for cattle or other stock to walk over the same, and the spaces between the ties are filled or partially filled by strips or bars of metal formed either with projecting spikes or barbs; or corrugated strips of metal may be employed, such arrangement and construction rendering it impossible for the cattle or stock to walk in the spaces between the railroad-ties; hence the simplicity and effectiveness of my invention.

Reference being had to the several parts by the letters marked thereon, A A represent the two rails of a railway-track, and B represents the ties on which said rails rest. Secured to

the top of each of the cross-ties for a suitable distance to each side of the fence B' is a metallic cap or cover, C, extending the entire length of the tie between the rails, while similar shorter caps, c, are secured in like manner to the outer or projecting ends of said ties. These caps or covers are bent into the form of an angle, as shown at a, while small flanges b are bent out from their edges, so as to form a seating therefor upon the ties. The said flanges b are perforated at intervals for the reception of the lag-screws or spikes d, which secure them in place.

Connecting the ties across the spaces between them are series of metallic bars D, formed or provided with numerous spikes or barbs e, and which are secured to the ties, as shown. Instead of these bars, however, I may resort to the use of corrugated strips of sheet metal, as shown at g, Figs. 2 and 3.

The ends of the caps or covers contiguous to the rails A A are cut slanting or beveled, as at n, so as to accommodate the free passage of the car-wheels over the rails and not be crushed.

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

1. A cattle-guard for railroad-track beds, consisting of the combination of metallic caps or covers of angular shape secured to the cross-ties and series of bars or strips of metal crossing the spaces between the ties, the same being corrugated, substantially as described.

2. A cattle-guard for railroad-track beds, consisting of the combination of metallic caps or covers of angular shape secured to the cross-ties between the rails, similar caps secured to the projecting ends of the ties, the ends of said caps contiguous to the rails being beveled or slanting, and series of bars or strips of metal crossing the spaces between the ties, the same being corrugated, substantially as described.

3. A cattle-guard for railroad-track beds, consisting of the combination of metallic caps or covers having the seating-flanges on their edges and of angular shape at the top, screws or bolts securing them to the ties, and series of bars or strips of metal crossing the spaces between the ties, the same being corrugated

and secured to the ties by rivets or screws, substantially as described.

4. In a cattle-guard for railroads, the angular metallic cap attached to the cross-ties by the
5 seating-flanges with which its edges are provided, substantially as described.

In testimony whereof I have hereunto set my

hand in the presence of two subscribing witnesses.

ROBERT H. ELLIOTT.

Witnesses:

J. S. BARNWELL,
WM. GRUNDY.