No. 860,520. PATENTED JULY 16, 1907.

W. C. BOSWELL.

GUARD RAIL AND CLAMP.

APPLICATION FILED AUG. 30, 1906.

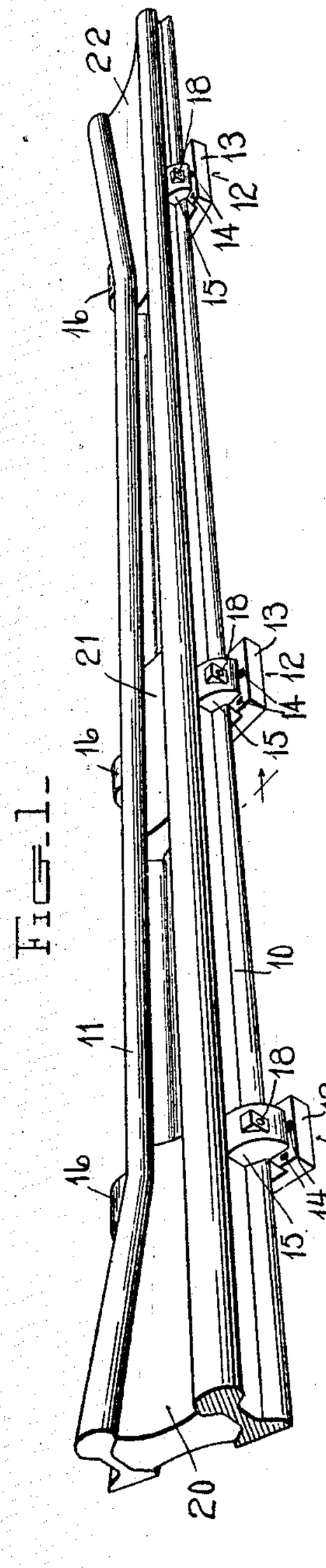

FIG. 1.

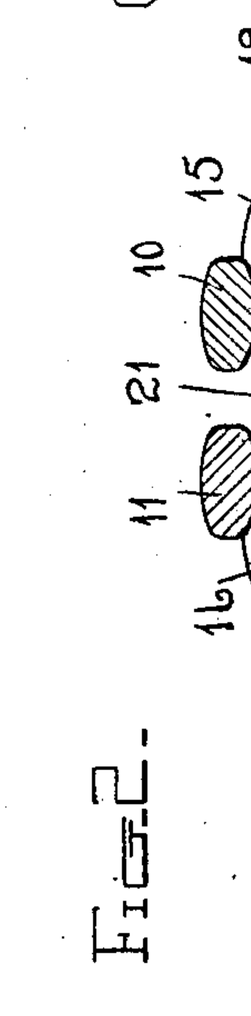

FIG. 2.

FIG. 3.

Witnesses
L. B. James
S. W. McCall.

Inventor
W. C. Boswell
by A. Bowilson & Co
Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM C. BOSWELL, OF CHATTANOOGA, TENNESSEE, ASSIGNOR TO ROSS-MEEHAN FOUNDRY COMPANY, OF CHATTANOOGA, TENNESSEE, A CORPORATION OF TENNESSEE.

GUARD-RAIL AND CLAMP.

No. 860,520. Specification of Letters Patent. Patented July 16, 1907.

Application filed August 30, 1906. Serial No. 332,593.

To all whom it may concern:

Be it known that I, WILLIAM C. BOSWELL, a citizen of the United States, residing at Chattanooga, in the county of Hamilton and State of Tennessee, have invented new and useful Improvements in Guard-Rails and Clamps, of which the following is a specification.

This invention relates to guard rail fasteners for railways.

The object of the invention is in a positive, simple and thoroughly effective manner to prevent the guard rail from spreading relatively to the main rail, and the wheels of the locomotive from climbing the frog point thereby preventing accidents.

In the accompanying drawings, Figure 1 represents a side elevation partly in perspective of the main rail with the guard rail and clamps in position and the spacing blocks placed between the rails; Fig. 2 represents a cross-sectional view thereof; Fig. 3 represents a perspective view of one of the clamps which hold the rails to the cross-tie; Fig. 4 represents a perspective view of the blocks to be placed between the rails.

In the embodiment shown, 10 represents the main rail, 11 the guard rail, and 12 the clamps, any desired number of which may be used. Each of the clamps 12 comprises a base plate 13 having spike holes 14 at the end and sides for securing it to the ties. On the opposite ends of the plate 13 are formed preferably integrally, upwardly curved inwardly extending arms 15 and 16 for engaging the outer sides of the faces of the guard and main rails to be clamped. These arms 15 and 16 have transverse apertures as 17 extending therethrough to receive the bolts which pass through the rails and blocks as hereinafter described.

Spacing blocks 20, 21 and 22 are disposed between the main rail 10 and the guard rail 11. The end blocks 20 and 22 are made approximately triangular or tapering towards one end to adapt them to fit the spaces between the main and guard rails, while central blocks as 21 are made rectangular. Bolts as 18 extend through the rail-webs, blocks and clamps to secure them rigidly together.

I claim as my invention:—

A guard rail fastener comprising a base plate having upwardly-curved, inwardly-extending spaced arms or blocks provided with apertures extending transversely therethrough, the curved arms being shaped to embrace and snugly fit the sides of the braces of the main and guard rails, a boss surrounding said apertures in one of said blocks on its outer curved base and having a flat vertical face to serve as a bearing for the securing nut.

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

WILLIAM C. BOSWELL.

Witnesses:
J. L. BRAGG,
F. L. FITZGERALD.