The object of my invention is to provide a reversible guard rail end spacer block, one that is either right hand or left hand construction, and which may be installed at either end of the guard rail. Other objects of the invention are mentioned and described herein.

The preferred embodiment of the invention is illustrated in the accompanying drawing, wherein Figure 1 is a top plan view of the guard-rail block secured in position between the guard-rail end and a main rail of a railway track, and in the right hand position; Fig. 2 illustrates a top plan view of the block alone; Fig. 3 is a side elevation thereof; Fig. 4 is an end elevation thereof; Fig. 5 is a section taken on line 5—5 of Fig. 1; Fig. 6 is a section taken on line 6—6 of Fig. 1; and Fig. 7 is a top plan view illustrating the application of a pair of the blocks to a guard-rail and the main rail.

Similar numerals of reference indicate like parts throughout the several views on the drawing.

Referring to the details of the drawing the numeral 1 indicates generally the body of my improved guard-rail block, preferably made of suitable cast metal, and adapted to be secured between the main rail 2 of the railway track and the guard-rail 3, the latter being placed between the two main rails of the track and secured to the ties, as is well known. The opposite ends 4 and 5 of the guard-rail 3 are preferably somewhat angularly bent away from the adjacent main rail, as is well known, and it is within this angular area that the block 1 is installed and secured to both rails.

Preferably, the block 1 is formed with the outer end 6 somewhat broader than the inner end 7 to correspond with the angle of the bent portion 4 or 5 of the guard-rail. The numerals 8 and 9 respectively represent a pair of opposed bosses formed on the opposite sides of the block adjacent the broader end thereof, the opposite or narrower end of the block being provided with the opposed bosses 10 and 11, respectively, adjacent said end. Preferably, the block portion 12 intermediate said bosses is somewhat reduced in width. The boss 8 is provided with the two converging angular rail engaging faces 13 and 14 which define an obtuse angle, and the boss 9 is provided with two converging angular rail engaging faces 15 and 16, also defining an obtuse angle. Similarly the bosses 10 and 11 are each provided with two angular converging rail engaging faces defining an obtuse angle and numbered 17 and 18 for boss 10, and 19 and 20 for boss 11.

For securing the block 1 between and to the rails 2 and 3 the block may be provided with the two bolt holes 21 and 22 which are adapted to be engaged by the usual fastener bolts 23 and 24 which engage in suitable apertures in said spacers.

The general plane of the obtuse angles formed on the bosses 8 and 9, as described, is disposed somewhat angularly in relation to a longitudinal center line through the block 1, said planes tending to converge toward the smaller end of the block. Likewise, the general plane of the obtuse angles formed on bosses 10 and 11 are convergingly disposed at an angle to said longitudinal center line of said block but at an angle of lesser degree than that of the planes of the other bosses.

When my improved block is used as a right-hand block (Figures 1 and 7) the face 14 of boss 8 engages the main rail 2 with face 13 disengaged, and face 15 of boss 9 engages the bent portion of the guard-rail 3, with face 16 disengaged. And rail engaging face 17 of the boss 10 engages the main rail 2, with face 18 disengaged, and face 20 of boss 11 engages the bent portion of the guard-rail, with face 19 disengaged.

When the block is to be used as a left-hand element at the opposite end of the guard-rail (Fig. 7) it is reversed—not overturned—thereby causing the opposite set of rail engaging faces of the bosses 8, 9, 10 and 11 to contact with the main and guard-rails, and also reversing the position of the bosses in relation to the rails and placing bosses 8 and 10 in relation to the guard-rail and bosses 9 and 11 relatively to the main rail. Therefore, in this left-hand relation of the block bosses to the rails the engaging block face 13 of boss 8 engages the guard-rail, and face 16 of boss 9 contacts with the main
rail. Likewise, face 18 of boss 10 engages the guard-rail, and face 19 of boss 11 engages the main rail.

I claim:

1. A reversible guard-rail block of the character described and comprising a body member wider at one end than the other, said block being provided with a pair of rail engaging faces on each side thereof adjacent each end thereof, of which one half only of said rail engaging faces contact with opposed rails for right-hand use of the block, the other half only of said rail engaging faces being adapted to engage said opposed rails when the block is reversed for left-hand use.

2. A reversible guard-rail block comprising a body member provided with opposed boss sections adjacent each end thereof, each of said bosses having a face defining an obtuse angle, and means for securing said block to a rail.

3. A reversible guard-rail block comprising a body member wider at one end than the other and provided with opposed boss sections adjacent each end thereof, each of said bosses having a lateral face defining an obtuse angle, and fastener member apertures in said block body.

4. A reversible block of the character described and adapted for right and left-hand application to the main and guard-rails of a railway track, said block comprising a body portion wider at one end than the opposite end thereof, said block being provided with a pair of opposed boss sections adjacent each end thereof, each of said bosses having a pair of rail engaging faces defined as right and left hand engaging faces of which one face engages a rail when the block is in the right-hand position and the left-hand face is out of contact with a rail.

5. A reversible block of the character described and adapted for right or left-hand application to the main and guard-rails of a railway track, and comprising a body provided with two pairs of bosses, one on each end thereof and in opposed relation, each boss being provided with a pair of rail contacting surfaces only one of which engages either the main or the guard-rail when in position, the other surface or face being out of contact with either rail, said second contacting face being adapted to engage either the main or guard-rail when the block is reversed, and means for securing said block to the main and guard-rails.

In witness whereof I have affixed my signature this 16th day of August, 1927.

PHILIP J. JONES.