

No. 723,156.

PATENTED MAR. 17, 1903.

C. HOLTSMANN, W. H. LINDEWIRTH & J. SCHUNK.
FOOT GUARD FOR RAILWAY FROGS.

APPLICATION FILED JAN. 5, 1903.

NO MODEL.

2 SHEETS—SHEET 1.

Fig. 1

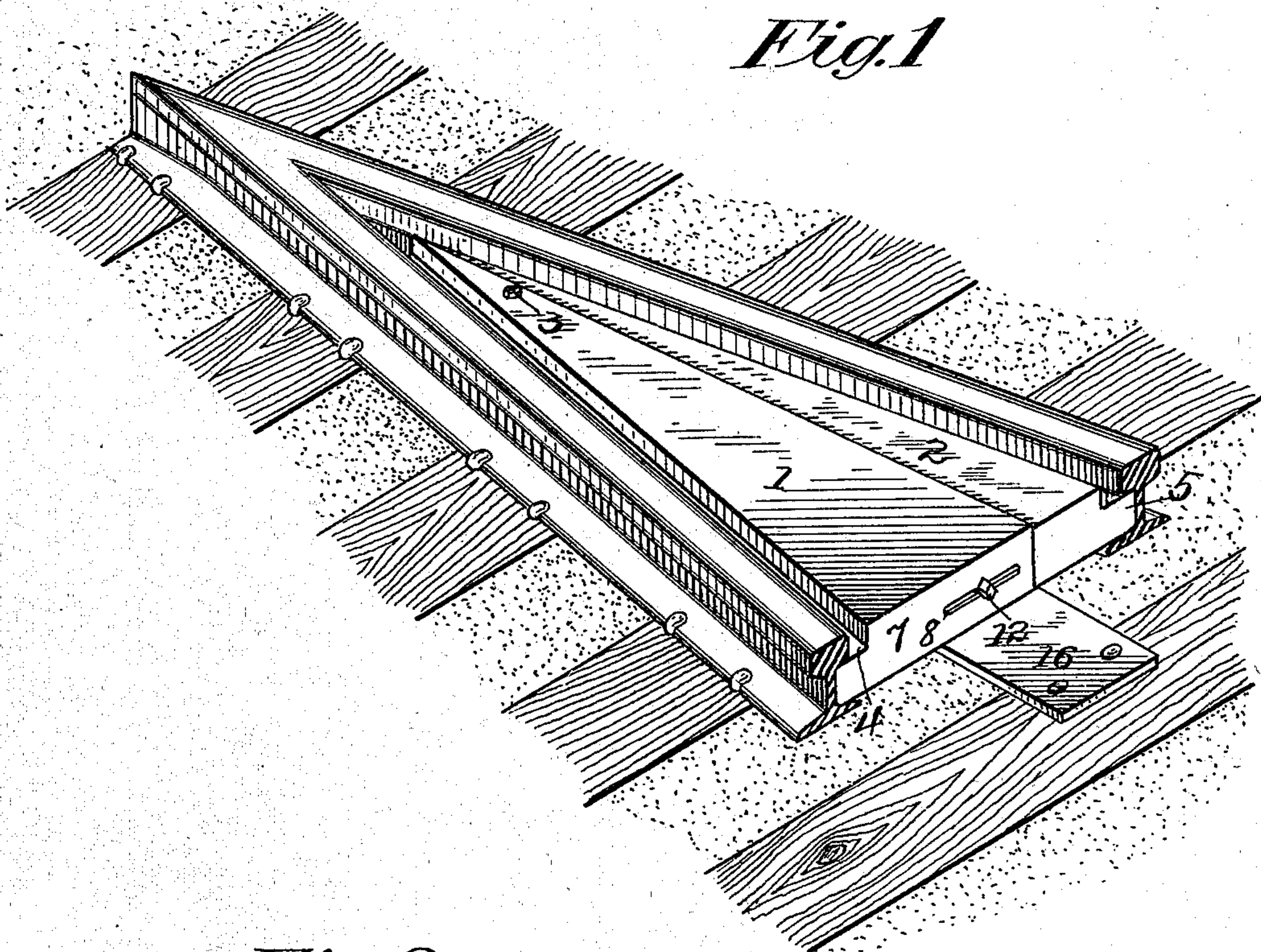
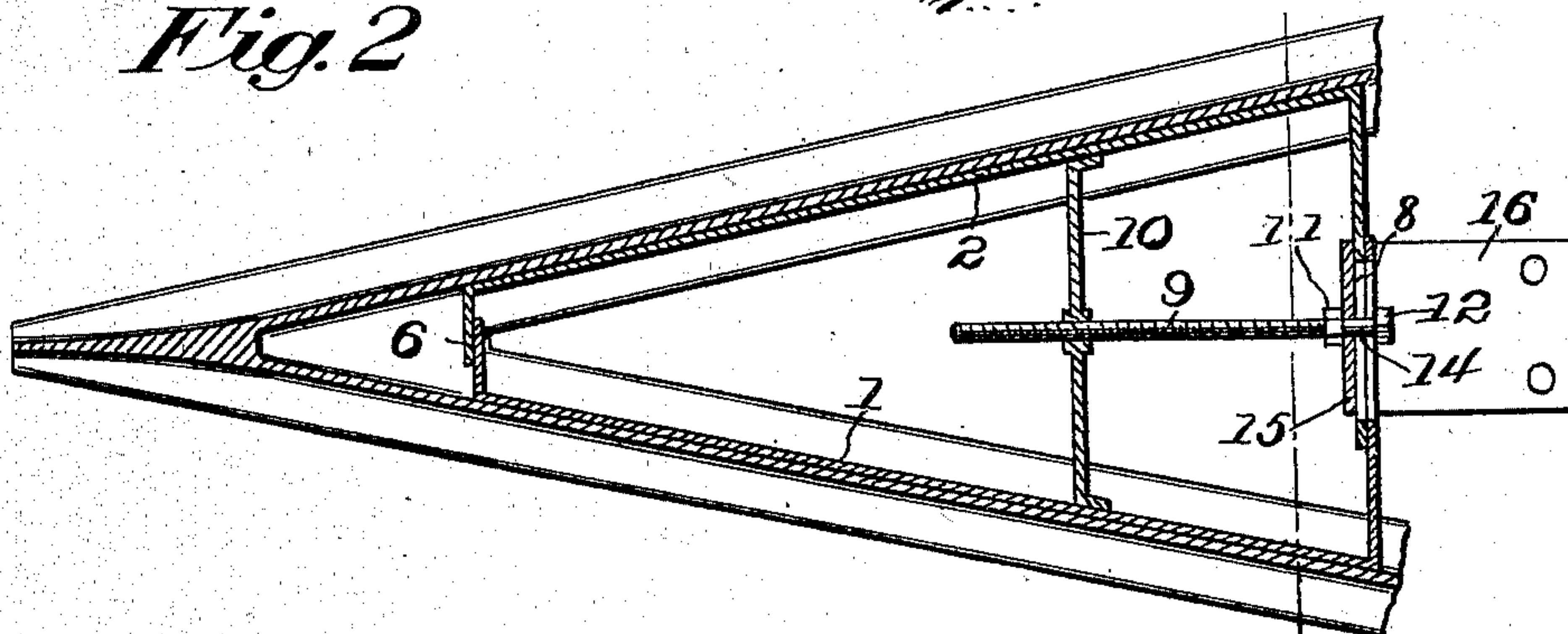


Fig. 2



Witnesses
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C. R. Human.

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2 SHEETS—SHEET 2.

Fig. 3

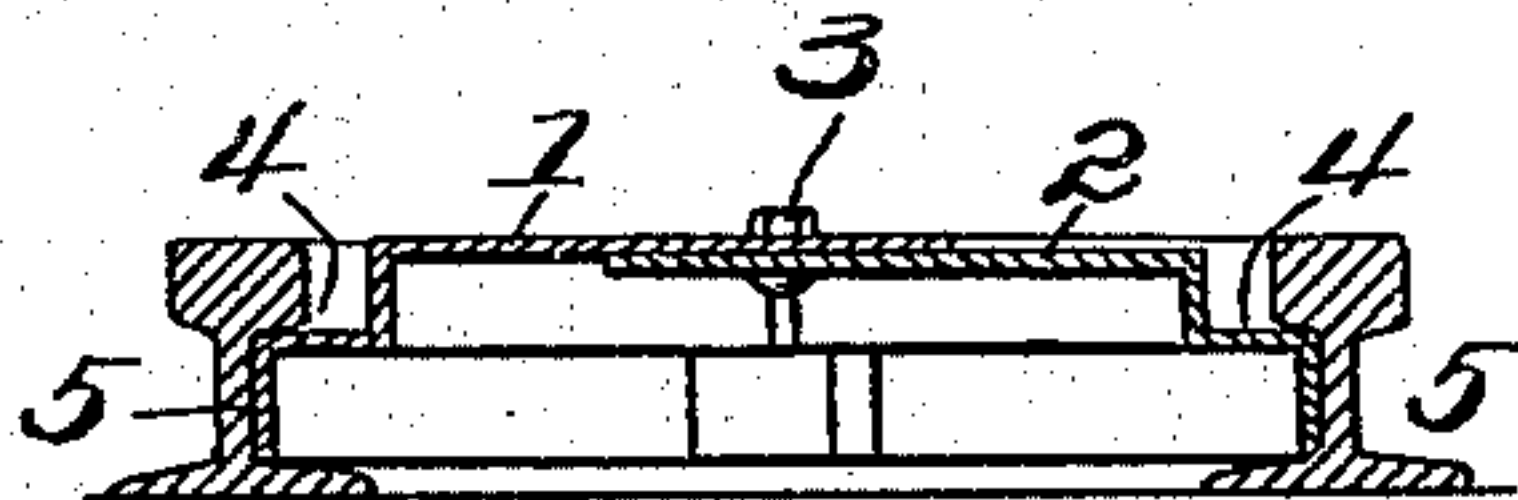


Fig. 4

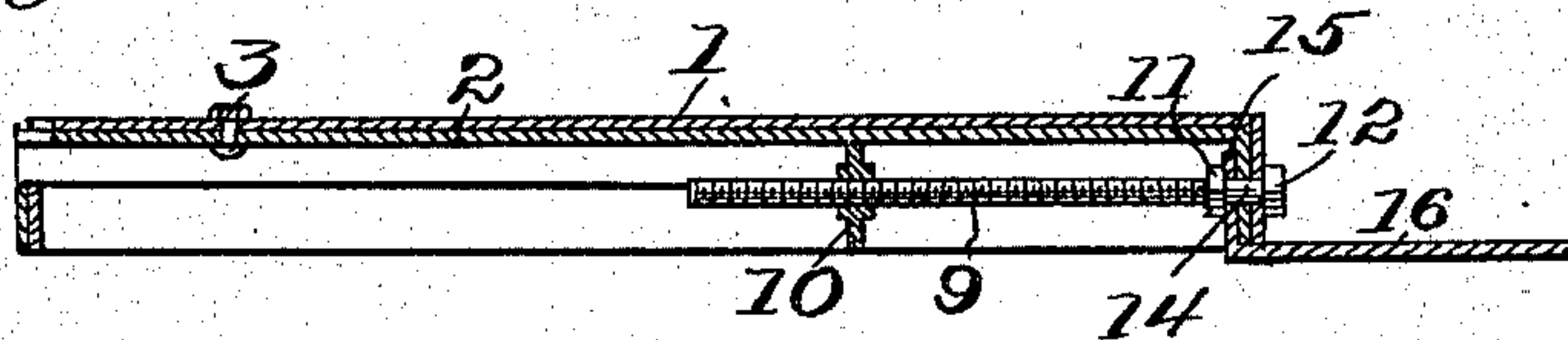


Fig. 5

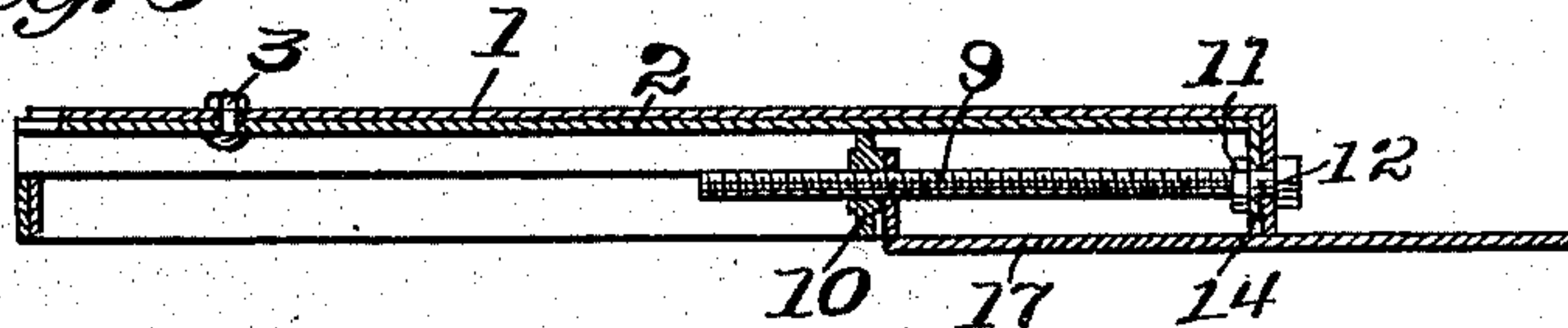


Fig. 6

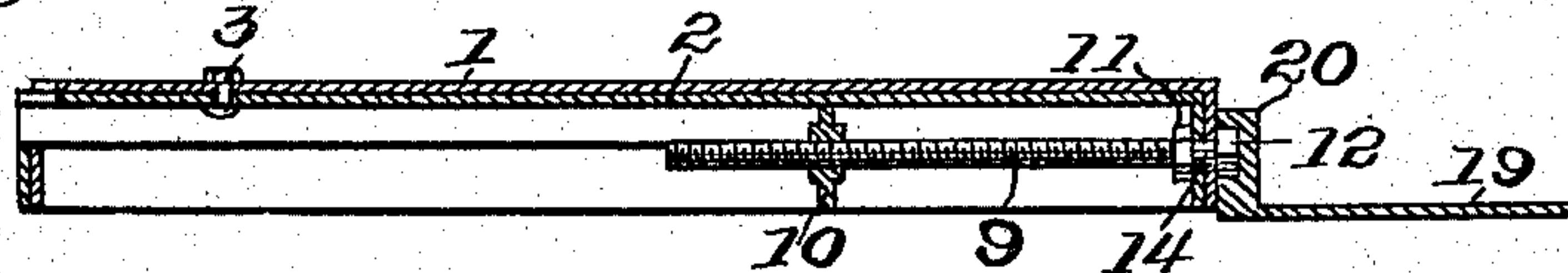
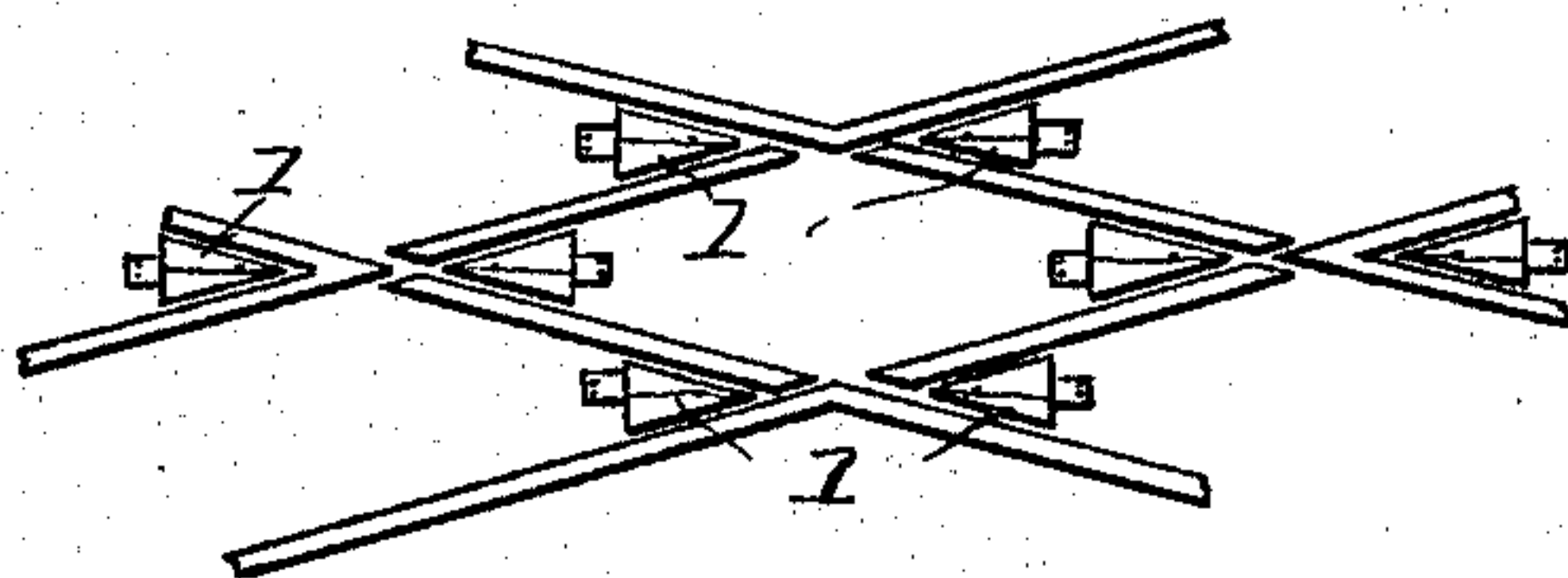


Fig. 7



Witnesses:

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UNITED STATES PATENT OFFICE.

CHARLES HOLTMANN, WILLIAM H. LINDEWIRTH, AND JOHN SCHUNK, OF
PITTSBURG, PENNSYLVANIA; SAID HOLTMANN ASSIGNOR OF ONE-THIRD
HIS RIGHT TO NICHOLAS SCHMIDT, OF PITTSBURG, PENNSYLVANIA.

FOOT-GUARD FOR RAILWAY-FROGS.

SPECIFICATION forming part of Letters Patent No. 723,156, dated March 17, 1903

Application filed January 5, 1903. Serial No. 137,895. (No model.)

To all whom it may concern:

Be it known that we, CHARLES HOLTMANN, WILLIAM H. LINDEWIRTH, and JOHN SCHUNK, citizens of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Foot-Guards for Railway-Frogs; of which the following is a specification, reference being
10 had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in foot-guards for railway-frogs; and the invention has for its object to construct a guard adjustable so as to
15 fit any different-sized frog.

The invention has for its further object to construct a device of this kind with means for readily adjusting the same, so as to fit the frog in which the guard is to be placed.

20 Briefly described, the invention comprises a guard embodying two sections which partly overlap and also providing means whereby the sections are spread apart in order to conform the same to the frog in which they are
25 to be employed.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate like
30 parts throughout the several views, in which—

Figure 1 is a detail perspective view of our improved foot-guard in position in the frog. Fig. 2 is a horizontal sectional view of the frog and guard with the latter in position. Fig. 3 is a transverse vertical sectional view of the frog and guard. Fig. 4 is a longitudinal sectional view thereof. Fig. 5 is a like
35 view of a modified form of construction. Fig. 6 is a like view of another modified form of construction. Fig. 7 is a top plan view showing the guards in position in the frogs of the crossover.
40

Our improved guard embodies two members or sections one of which overlaps the
45 other and which sections or members when joined together are practically wedge-shaped in form, so as to conform to the shape of the frog. Each of the sections is preferably formed of comparatively thin plate or bar
50 metal, the section or member 1 overlapping

the upper plate of the section or member 2, and each section or member tapers to a point, the sections or members being joined together near the small end by the bolt and nut 3 passing through the top plates of the members. 55 Each section or member is shouldered off, as at 4, whereby to form a side ridge 5, which is adapted to fit against the web of the rails of the frog between the tread and the base of said rails. Each section or member may be
60 provided with front end walls 6, as seen in Fig. 2, and they are also provided with rear end walls 7, which latter end walls are provided with registering slots 8 to receive the shank of the adjusting-screw 9. The screw portion
65 of this screw engages in the spreader-bar 10, which is shaped at its ends to conform to the inclined or tapered portion of the inner walls of the guard. This adjusting-screw carries
70 a nut 11 and the head 12, the shank portion 14 between the nut 11 and head 12 operating in the slots 8 and also engaging through the upwardly-extending member 14 of the angle-plate 16, which latter is provided with apertures whereby the screw may be spiked to the
75 cross-ties, as seen in Fig. 1 of the drawings. The adjusting-screw being held in the upwardly-extending member of the angle-plate it will be observed that the turning of the screw will force the spreader-bar inwardly or
80 draw the same outwardly, according to the direction in which the screw is turning, and consequently spread the sections or member or permit the same to be drawn closer together, whereby to accommodate the width of the
85 frog upon which the guard is being used.

In Fig. 5 we show the same form of guard member, the only difference being in this construction that the angle-plate 17 extends inwardly for some distance and carries an
90 upwardly-extending member 18, which is in close juxtaposition to the spreader-bar 10.

In Fig. 6 we show the same construction of guard with the angle-plate 19; the upwardly-extending member 20 of which is
95 adapted to be placed over the head of the adjusting-screw, whereby to prevent actuating the latter without removal of the securing-plate. The securing-plate in both the constructions shown in Figs. 5 and 6 is
100

adapted to be spiked down to the cross-ties, as shown in Fig. 1 of the drawings.

It is to be noted that the spreader-bar acts also as a brace for the two members comprising the guard, as the ends of the spreader-bar are always in engagement with the inner face of the side walls after the members have been adjusted.

It will be noted that various changes may be made in the details of construction without departing from the general spirit of our invention.

Having fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. A guard for railway-frogs comprising two substantially wedge-shaped members overlapping each other and each of which is shouldered off along the side edge to form a ledge to engage with the web of the rails, an adjusting-screw, and a spreader-bar on said screw, as and for the purpose described.

2. In a guard for railway-frogs, two overlapping substantially wedge-shaped members having slotted rear end walls, an adjusting-screw mounted in said slotted end walls, and

a spreader-bar engaged by said adjusting-screw, substantially as described.

3. A guard for railway-tracks comprising two overlapping members substantially wedge-shaped and having shouldered-off side edges, slotted end walls on said members, a securing-plate, an adjusting-screw mounted in the slotted end walls and securing-plate, and a spreader-bar engaged by said adjusting-screw, substantially as described.

4. In a guard for railway-frogs, two overlapping members substantially wedge-shaped in form, an adjusting-screw mounted in the rear end walls of said members, and a spreader-bar engaged by said adjusting-screw and acting as a brace for the members, substantially as described.

In testimony whereof we affix our signatures in the presence of two witnesses.

CHARLES HOLTSMANN.
WILLIAM H. LINDEWIRTH.
JOHN SCHUNK.

Witnesses:

H. C. EVERT,
A. M. WILSON.