

No. 754,881.

PATENTED MAR. 15, 1904.

E. MASIK.
DEVICE FOR PREVENTING THE CREEPING OR WANDERING OF THE
RAILS OF RAILROADS.

APPLICATION FILED JAN. 4, 1904.

NO MODEL.

Fig. 1.

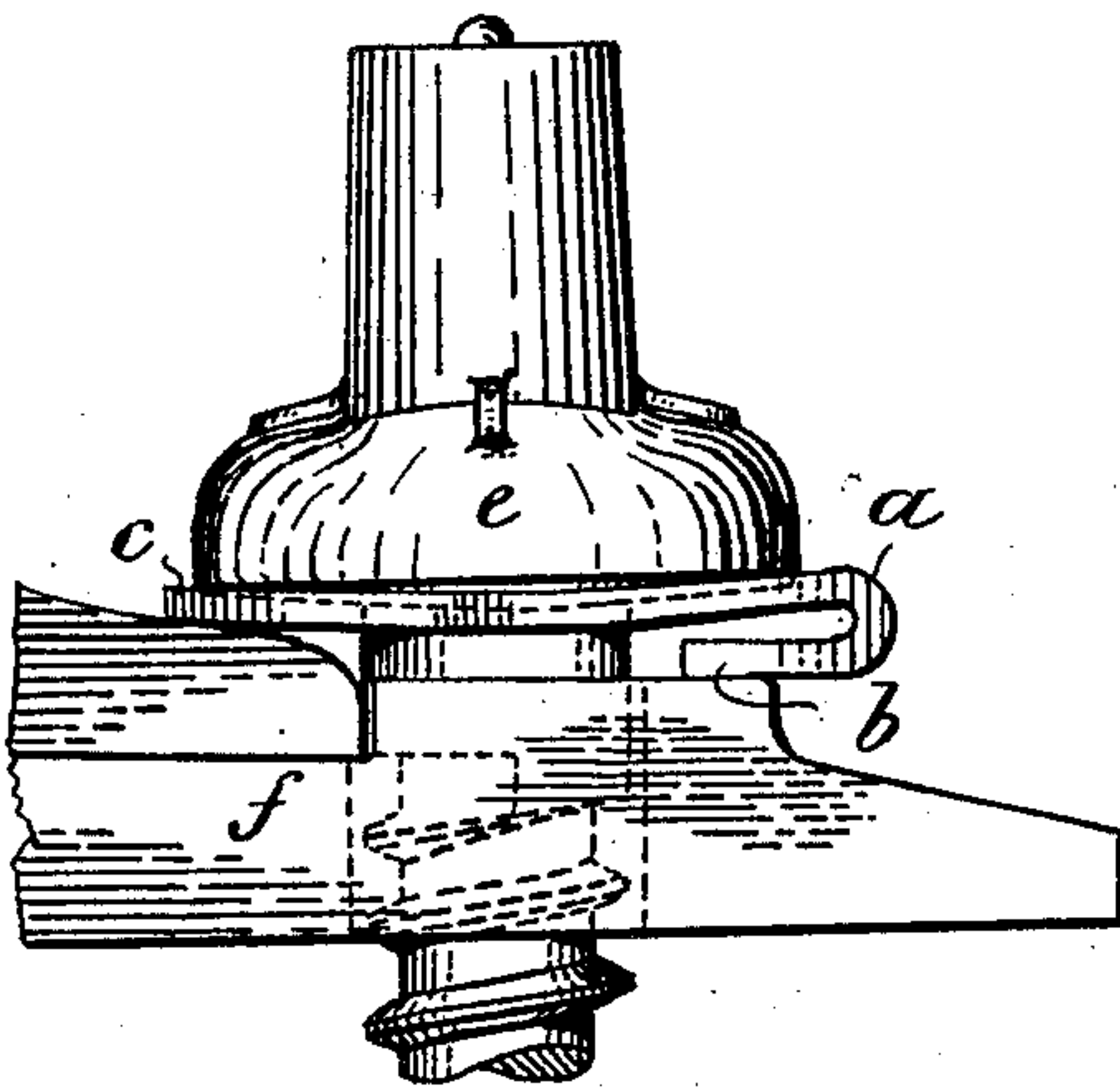


Fig. 2. Fig. 3.

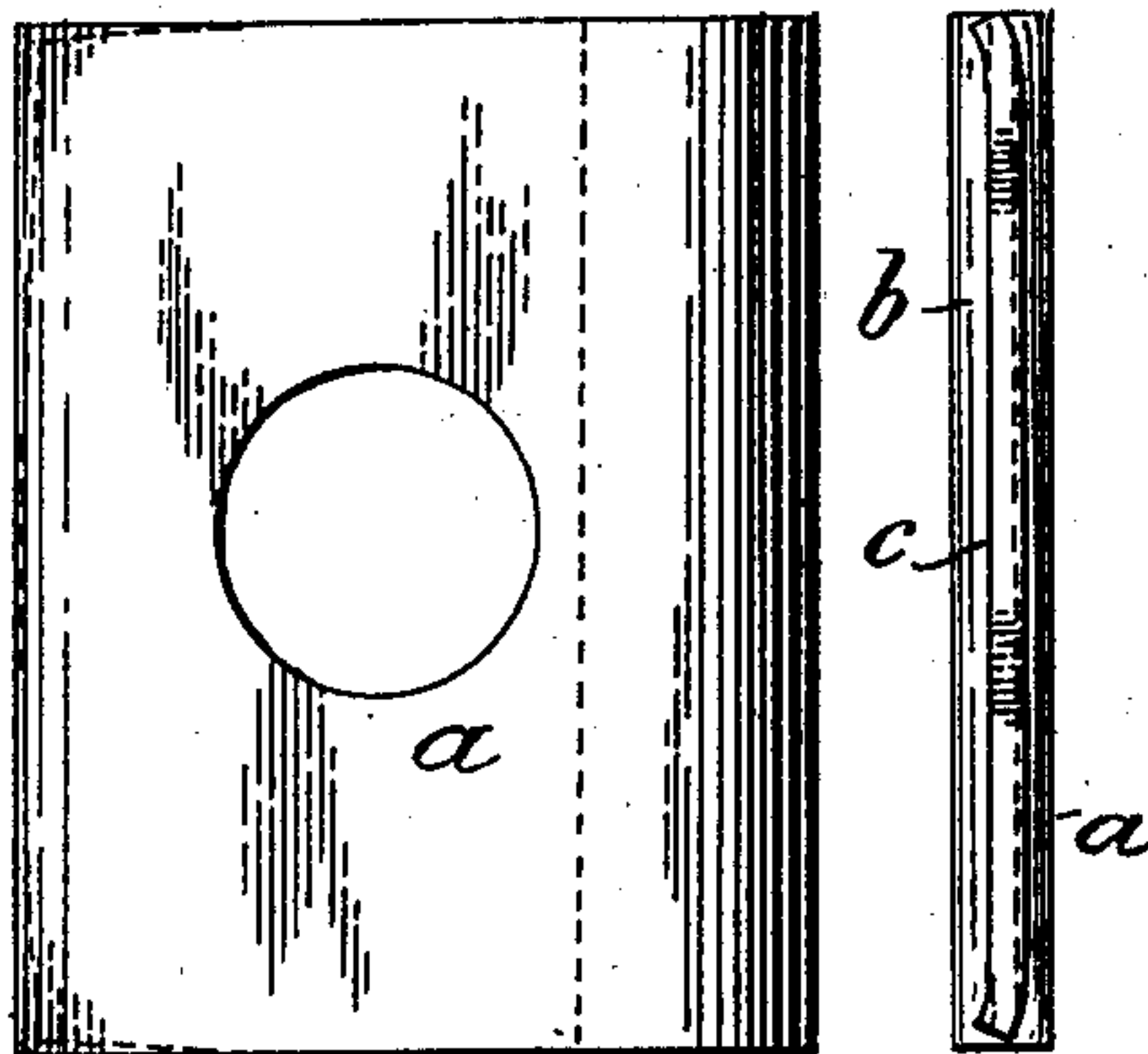


Fig. 5.

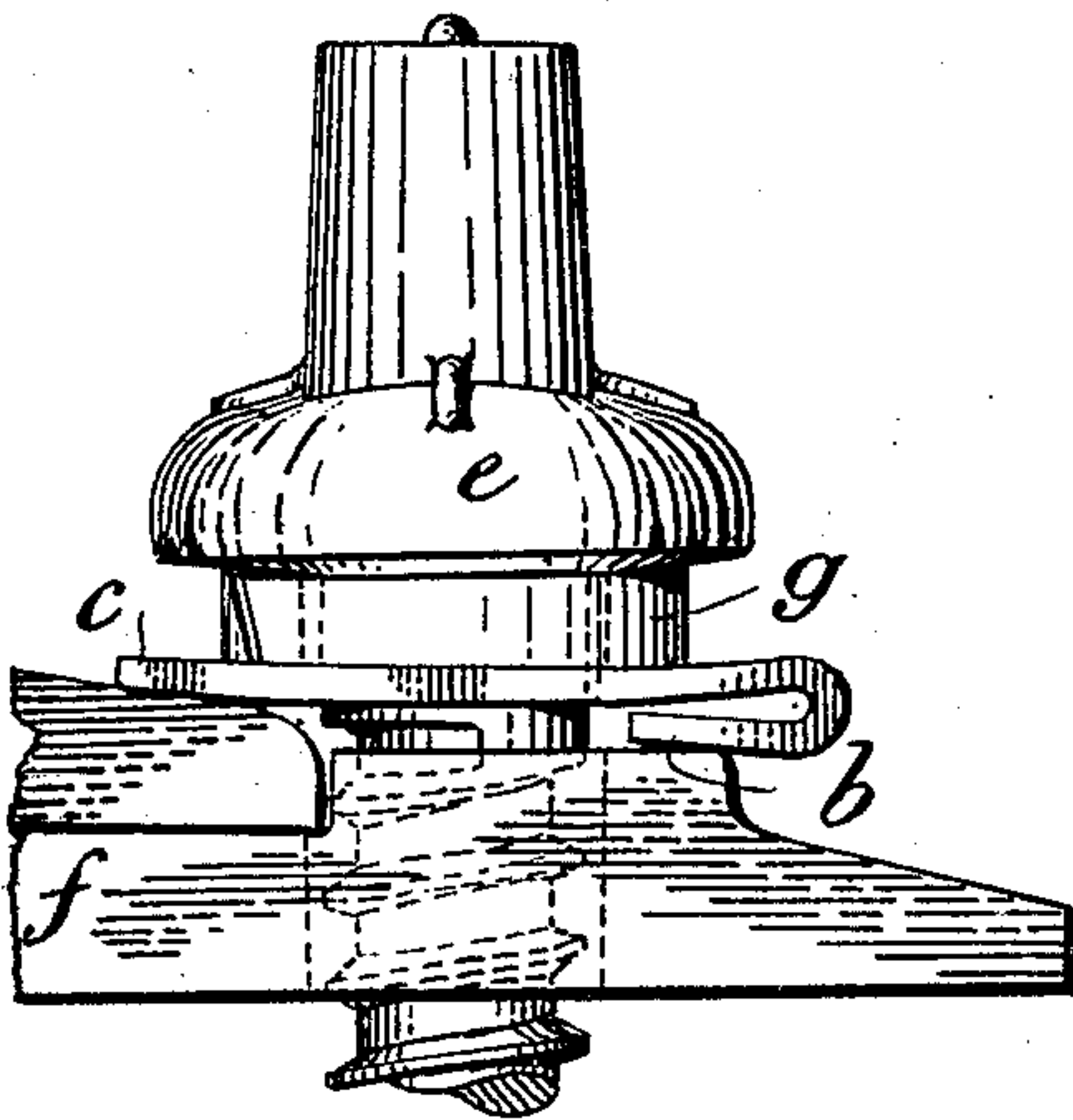
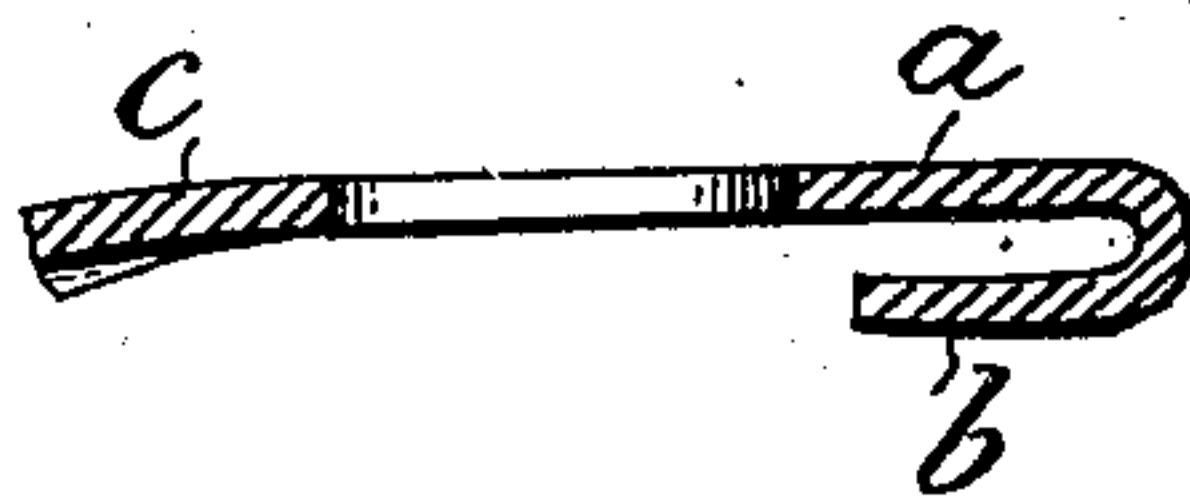


Fig. 4.



Witnesses:
T. H. Birchhead.
A. C. Powell

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UNITED STATES PATENT OFFICE.

EMIL MASIK, OF VIENNA, AUSTRIA-HUNGARY.

DEVICE FOR PREVENTING THE CREEPING OR WANDERING OF THE RAILS OF RAILROADS.

SPECIFICATION forming part of Letters Patent No. 754,881, dated March 15, 1904.

Application filed January 4, 1904. Serial No. 187,700. (No model.)

To all whom it may concern:

Be it known that I, EMIL MASIK, engineer, a subject of the Emperor of Austria-Hungary, and a resident of Vienna, Empire of Austria-Hungary, have invented certain new and useful Improvements in Devices for Preventing the Creeping or Wandering of the Rails of Railroads; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to devices for preventing the creeping or wandering of the rails of railroads.

In the accompanying drawings, Figure 1 is a side elevation of my improved device in working position. Figs. 2, 3, and 4 are a plan view, a front view, and a transverse section, of the spring-plate which I prefer to use for carrying out my invention. Fig. 5 is a side elevation of a modification of my invention.

My improved device consists of a substantially rectangular spring-steel plate *a*, dished or convex in an upward direction, preferably by having its outer part bent downward upon itself, as indicated at *b* in Figs. 2 to 4, and by having its inner part bent downward in a direction transverse to the rail. The inner edge *c* of this spring-steel plate is curved or convex in an upward direction, and a hole is provided in the center of the same. This spring-steel plate is interposed between the head of the wood-screw *e*, bolt, nail, or other equivalent means for securing the rail to the sleeper and between the bed-plate or chair *f* of the rail in such a manner that the shank of the said screw or bolt passes through the hole in the plate *a*. The outer part *b* of this plate bears against the bed-plate or chair, and the inner curved edge *c* of the spring-plate bears against the foot of the rail. On screwing down the screw or bolt *e* or driving in the nail this inner edge *c* of the plate *a* is forced against the foot of the rail, so that the ends of this edge, which, owing to the curvature of the same, project downward, as shown in Fig. 3, bite into the metal of the foot, and thus positively prevent any lengthwise movement of the rail relatively to the bolt *e*, and hence also to the

sleeper—that is to say, the wandering or creeping of the rail. Any tendency of the plate *a* to turn around the shank is prevented by the resistance offered by the incline on the top of the foot of the rail to the movement of one end of the edge *c* toward the web of the rail consequent upon such turning.

In Fig. 1 the plate *a* is shown in position between the head of the screw *e* and the chair or bed-plate *f*. In the modification shown in Fig. 5 an elastic ring *g*, serving as a washer, is interposed between the head *e* and the plate *a*.

I claim—

1. In combination with a rail, a bed-plate or chair for the same, a sleeper carrying the bed-plate or chair and the rail and a bolt or screw for securing the rail and the bed-plate or chair to the sleeper a spring-steel plate adapted to be interposed between the head of the bolt or screw on the one hand and the foot of the rail and the bed-plate or chair on the other hand, the inner edge of such spring-steel plate being curved or convex in an upward direction and the outer downwardly-projecting ends of such edge being adapted to bite into the metal of the foot of the rail substantially as described.

2. In combination with a rail, a bed-plate or chair for the same, a sleeper carrying the bed-plate or chair and the rail and a bolt or screw for securing the rail and the bed-plate or chair to the sleeper a spring-steel plate adapted to be interposed between the head of the bolt or screw on the one hand and the foot of the rail and the bed-plate or chair on the other hand, the inner edge of such spring-steel plate being curved or convex in an upward direction and the outer downwardly-projecting ends of such edge being adapted to bite into the metal of the foot of the rail and a spring-ring serving as washer adapted to be interposed between the head of the bolt or screw and the spring-steel plate, substantially as described.

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

EMIL MASIK.

Witnesses:

T. GEORGE HARDY,
ALVESTO S. HOGUE.