

R. B. ROBINSON.
 TRACK FASTENER FOR RAILS.
 APPLICATION FILED AUG. 12, 1908.

922,043.

Patented May 18, 1909.

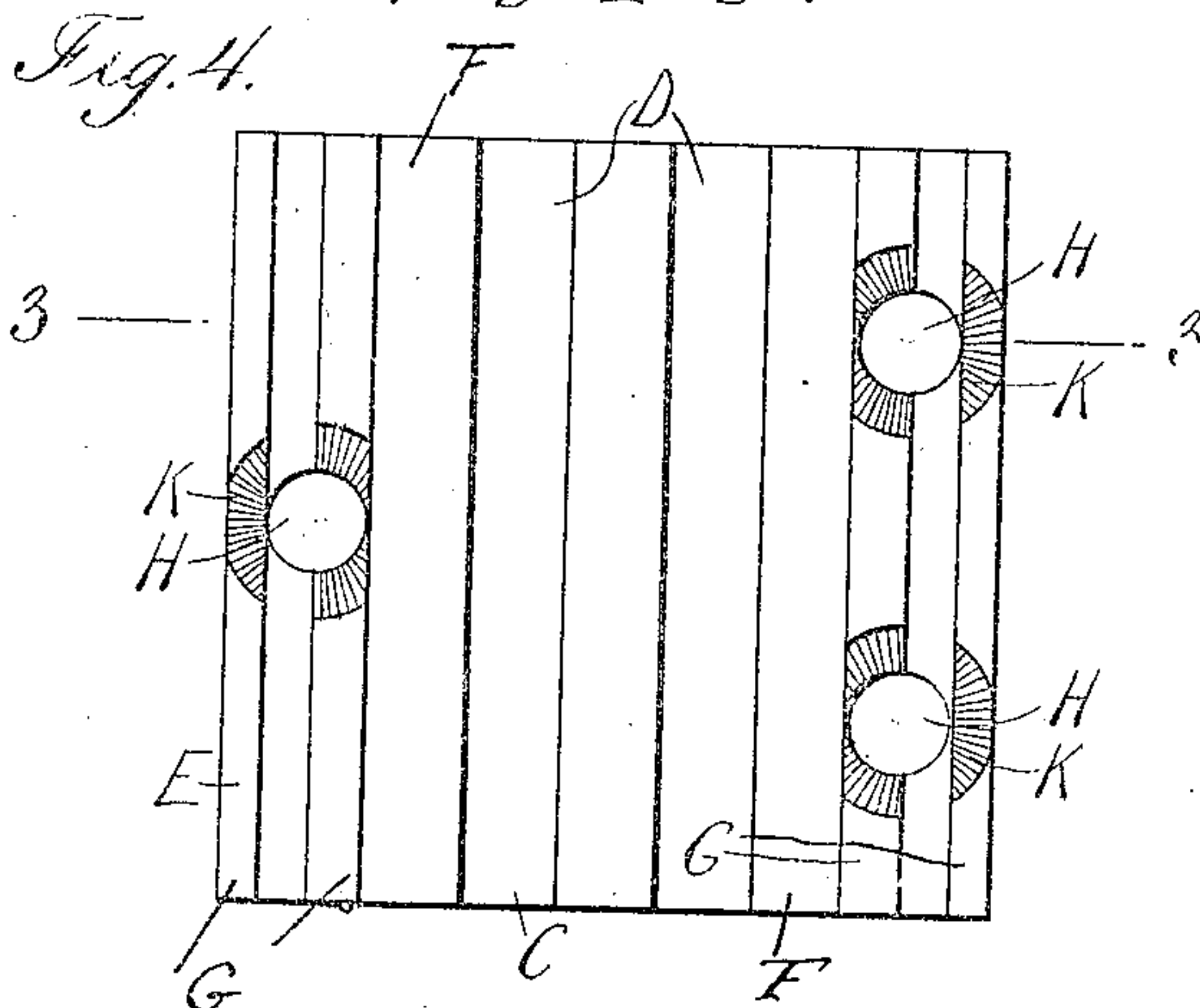
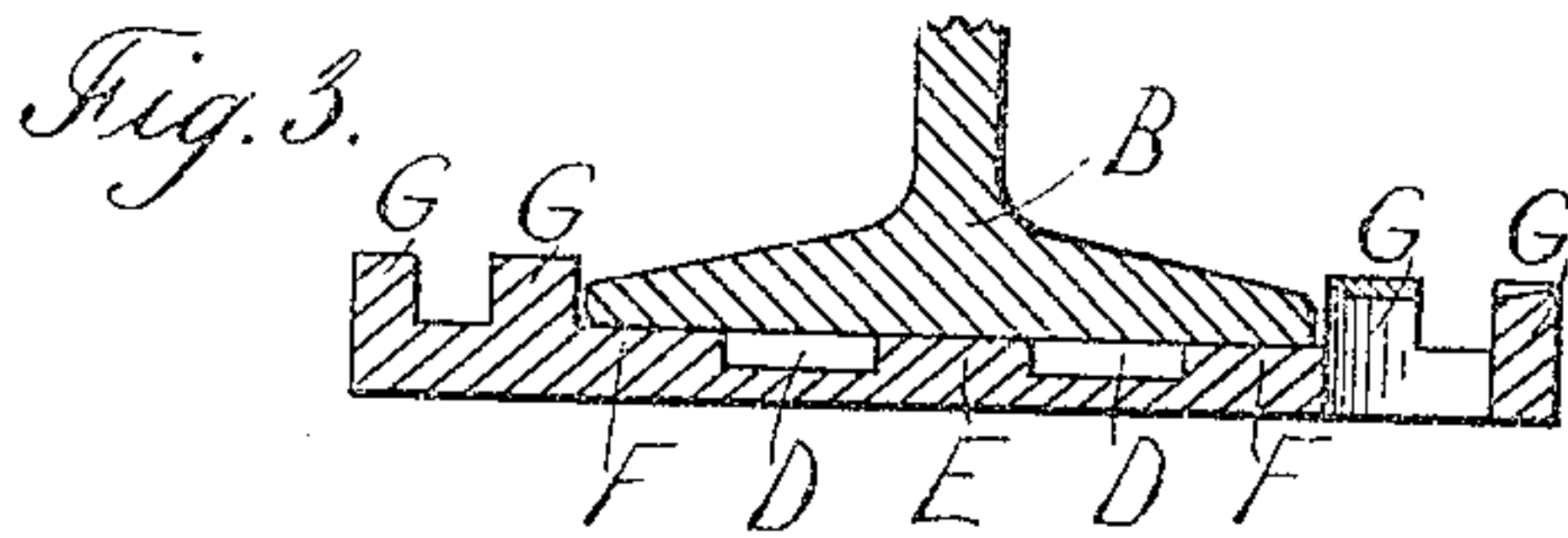
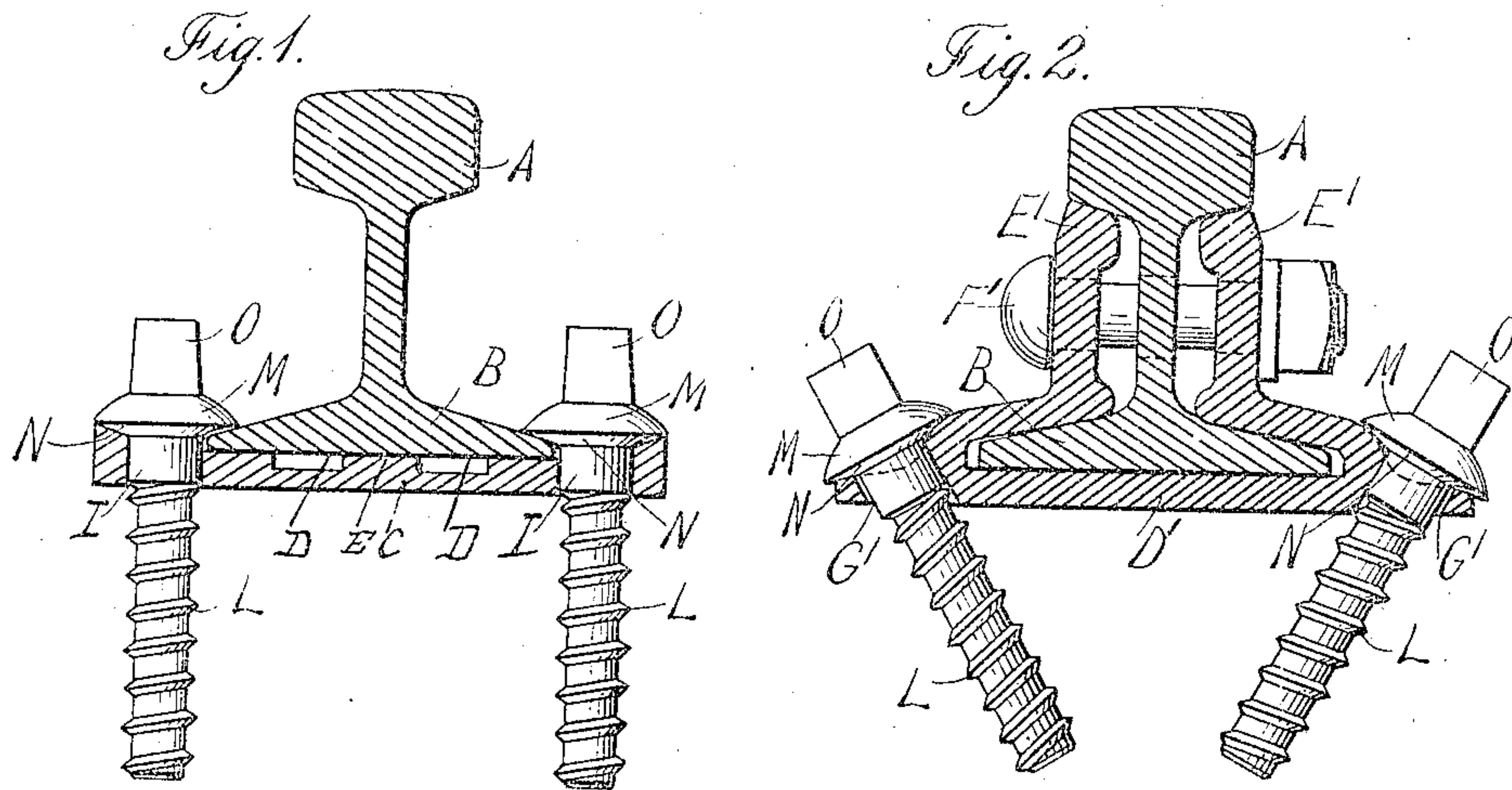


Fig. 5.

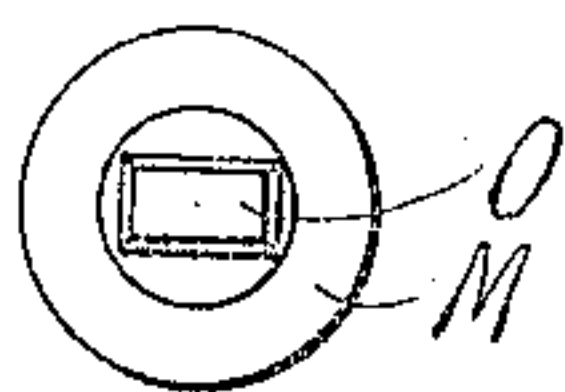
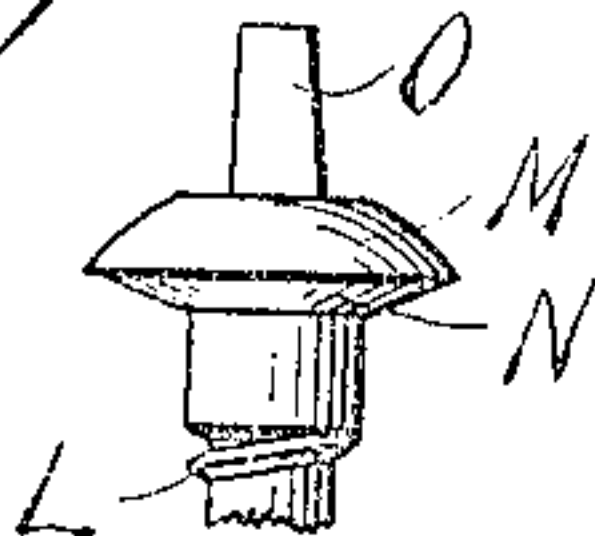


Fig. 6.



Witnesses

W. E. Allen

H. A. Byrne

Inventor

Robert B. Robinson

By

James A. Matthews

Attorney

UNITED STATES PATENT OFFICE.

ROBERT B. ROBINSON, OF SALT LAKE CITY, UTAH.

TRACK-FASTENER FOR RAILS.

No. 922,043.

Specification of Letters Patent.

Patented May 18, 1909.

Application filed August 12, 1908. Serial No. 448,214.

To all whom it may concern:

Be it known that I, ROBERT B. ROBINSON, a citizen of the United States, residing at Salt Lake City, in the county of Salt Lake and State of Utah, have invented certain new and useful Improvements in Track-Fasteners for Rails, of which the following is a specification.

My invention relates to railway track fastenings and has for its purpose to construct such a device that will overcome the serious objections to the present method of fastening rails to the ties.

A further object is to provide a device of this structure which will serve its full purpose and yet be of such structure that the cost of manufacturing will be fully consistent with the installation of my improved track fastening upon any railroad.

The design of the track fastening is such that it may be readily applied or removed from the track without the use of special machinery or special tools.

With these I have other objects in view which will be further pointed out in the course of the following specification and appended claims.

My invention is illustrated in the accompanying drawings wherein is shown its preferred structure in which:—

Figure 1, is a transverse section of a rail and tie plate showing the fastening means in elevation. Fig. 2, is a similar view of a modified form. Fig. 3, is a part of the section shown in Fig. 1. Fig. 4, is a plan view of the tie plate. Fig. 5, is a plan view of the spike, and Fig. 6, is a side elevation of the head thereof.

Referring more in detail to the several figures wherein like letters of reference designate corresponding parts in the illustrations, A indicates the ordinary rail having the usual base B; C refers to the improved tie plate, which plate is provided with a pair of longitudinal channels D providing between them a central rib E. The central rib E and that portion of the tie plate adjacent the grooves D, designated by F, provide the support or bed for the base B. At either side of the base B the plate C is provided with a pair of ribs G providing together braces for the base B that serve to overcome any tendency for side movement of the rail. At intervals along

the ribs G are apertures H for the spikes I, which spikes are of a structure to be presently described. The upper surfaces of the ribs G adjacent the apertures H are countersunk, as at K, which countersunk surfaces are provided with serrations adapted to hold the screw spikes against turning movement as will be obvious.

The spikes I are provided with screw threads L by means of which they are more securely held within the tie. The head of the spike designated M has an under slanting surface N, which surface is adapted to bind against the serrations of the countersunk openings K and serves to hold the spike in secured position. The spikes are further provided with a polygonal head O by means of which said spikes may be screwed or otherwise driven into the tie.

In the modification shown in Fig. 2, the tie plate D' has formed integrally therewith a pair of web supports E' held in position upon the rail by bolts F' of the usual type. At that portion of the base D' adjacent the integral members E', said base is provided with apertures G' disposed in inwardly or opposed slanting relation. In this structure the spikes are adapted to be driven in a downwardly and inwardly direction, which on account of the peculiar relation between them form a rigid and substantially immovable fastening for the tie plate upon the ties. The type of spike used in this instance is substantially the same as that above described.

Having thus described my invention what I claim as new and desire to protect by United States Letters Patent is:—

A track fastening of the character described, comprising, a rail, a tie plate provided with longitudinal ribs, the outermost of said ribs having countersunk apertures, the countersunk surfaces of said apertures being serrated, and spikes passing through said apertures engaging the serrations and adapted to hold the rail and the plate to the tie.

In testimony whereof I affix my signature, in presence of two witnesses.

ROBERT B. ROBINSON.

Witnesses:

GEORGIE REID

WILLARD HANSON.