I. BIELAWSKI.

RAIL TIE.

APPLICATION FILED AUG. 23, 1920.

1,357,941.

Patented Nov. 9, 1920.

2 SHEETS—SHEET 1.

Fig. 1.

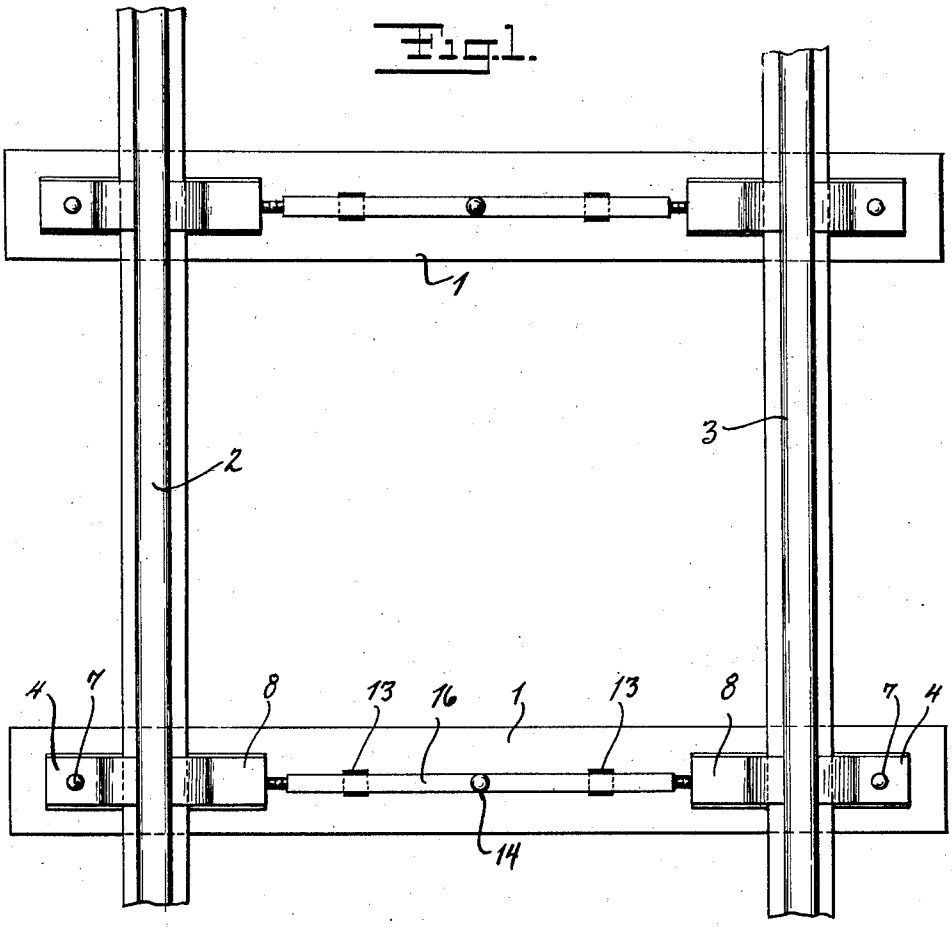
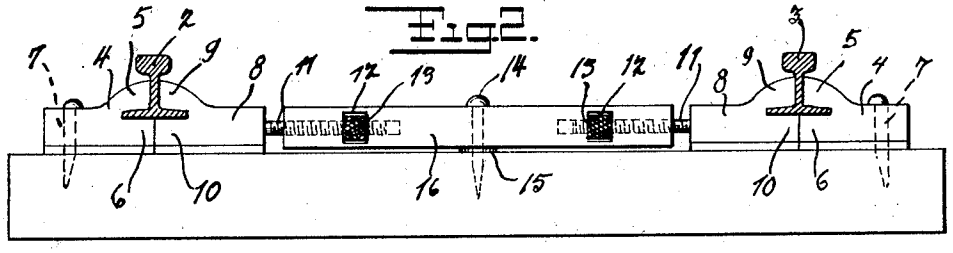


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

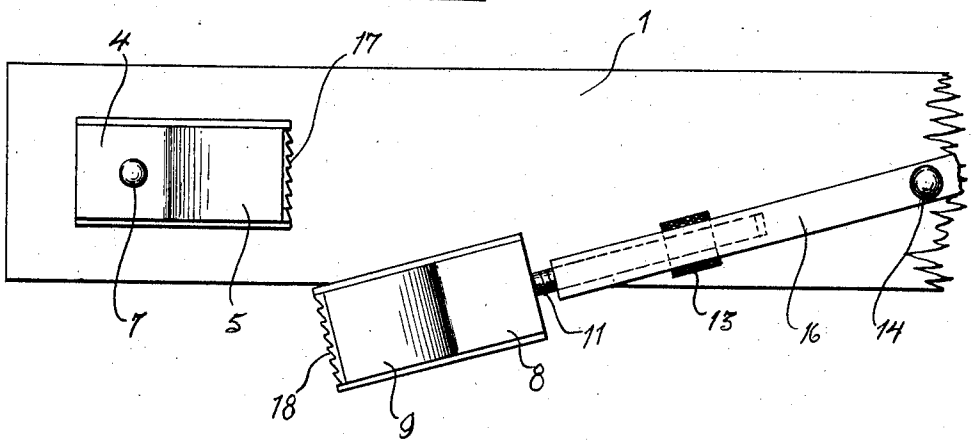
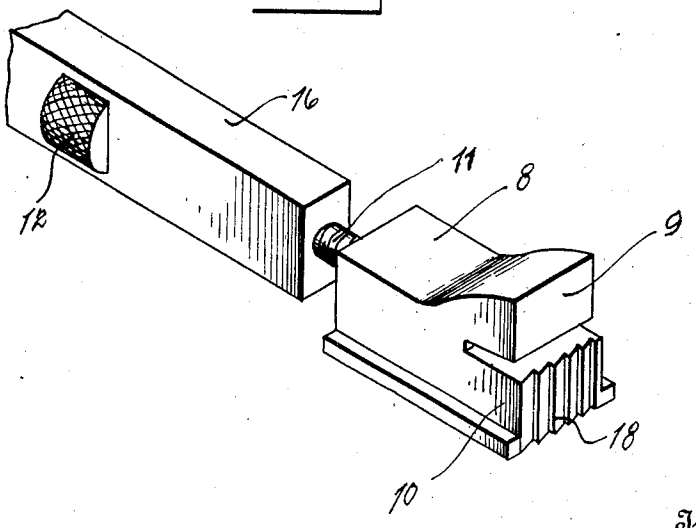


Fig. 4.



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UNITED STATES PATENT OFFICE.

IGNATZ BIELAWSKI, OF DETROIT, MICHIGAN.

RAIL-TIE.

1,357,941. Specification of Letters Patent. Patented Nov. 9, 1920.

Application filed August 23, 1920. Serial No. 405,465.

To all whom it may concern:

Be it known that I, IGNATZ BIELAWSKI, a citizen of Poland, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Rail-Ties, of which the following is a specification.

This invention relates to rail ties, and has for its main object the provision of a quickly demountable or removable rail tie which may be finely adjusted to take up the separation of the rails which generally occurs after continued usage.

The above and other objects will become apparent in the description below, in which characters of reference refer to like-named parts in the drawings.

Referring briefly to the drawings, Figure 1 is a plan view of a track section equipped with my ties.

Fig. 2 is a side elevational view of the same.

Fig. 3 is an enlarged plan view of a section of my tie, illustrating the manner of its assembling or dismounting.

Fig. 4 is an enlarged perspective view of a portion of my tie.

Referring now in detail to the drawings, the numeral 1 represents the common wood ties or bases upon which are mounted my ties. Each tie comprises an outside member 4 which is attached to the wood base 1 by means of the common spike 7, said member 4 having a lower tongue-like extension 6 which supports part of the rail 3, and an upper extension 5 which rests against the web of the rail.

On the inside of the rails is a similar member 8 having upper and lower extensions 9 and 10, corresponding to the extensions 5 and 6. The faces of the lower extensions 6 and 10 are provided with serrations or teeth 18 and 17, respectively, the teeth 18 being adapted to engage the teeth 17 and thereby prevent lateral separation of the members 4 and 8 when the tie is in use.

A threaded stem 11 extends from the member 8, and the central member 16 of the tie is provided with a recess or channel into which said stem extends. A knurled nut is mounted in an opening 12 in said member 16 surrounding the stem 11. The member 16 is pivotally attached to the wood base 1 by means of a spike or the like 14, and a washer-like support 15 is provided under said member 16 to allow easy rotation of the latter.

In assembling the tie, the central member 16 is first attached to the base 1, and with it, obviously, the members 8. Then the side members 4 are attached to the said base and the rails laid in the grooves between the extensions 5 and 6. Thereafter the central member 16 is turned about its pivot 14 until the same is in alinement with the outside members 4, the teeth 17 and 18 then lying in mesh. Finally, the knurled nuts 13 are turned so as to urge the members 8 outward against the rails, whence the rails are held rigid at a fixed distance apart. After the rails have been slightly separated by wear, the nuts 13 may again be turned so as to take up the additional width between the rails.

I claim:

1. A device of the class described comprising a central member pivotally attached to a support, channels extending into said member from the ends thereof, threaded stems extending into said channels, openings in said member about said channels, knurled nuts lying in said openings and surrounding said stems, rail supports attached to said stems, and additional rail supports adapted to be placed on the outer sides of said rails.

2. A device of the class described comprising a central member pivotally attached to a support, channels extending into said member from the ends thereof, threaded stems extending into said channels, openings in said member about said channels, knurled nuts lying in said openings and surrounding said stems, rail supports attached to said stems, the outer faces of said rail supports being serrated, and additional rail supports having their inner faces serrated and adapted to lie in mesh with said first-named rail supports, said second-named rail supports adapted to be placed on the outer sides of said rail.

In testimony whereof I affix my signature.

IGNATZ BIELAWSKI.