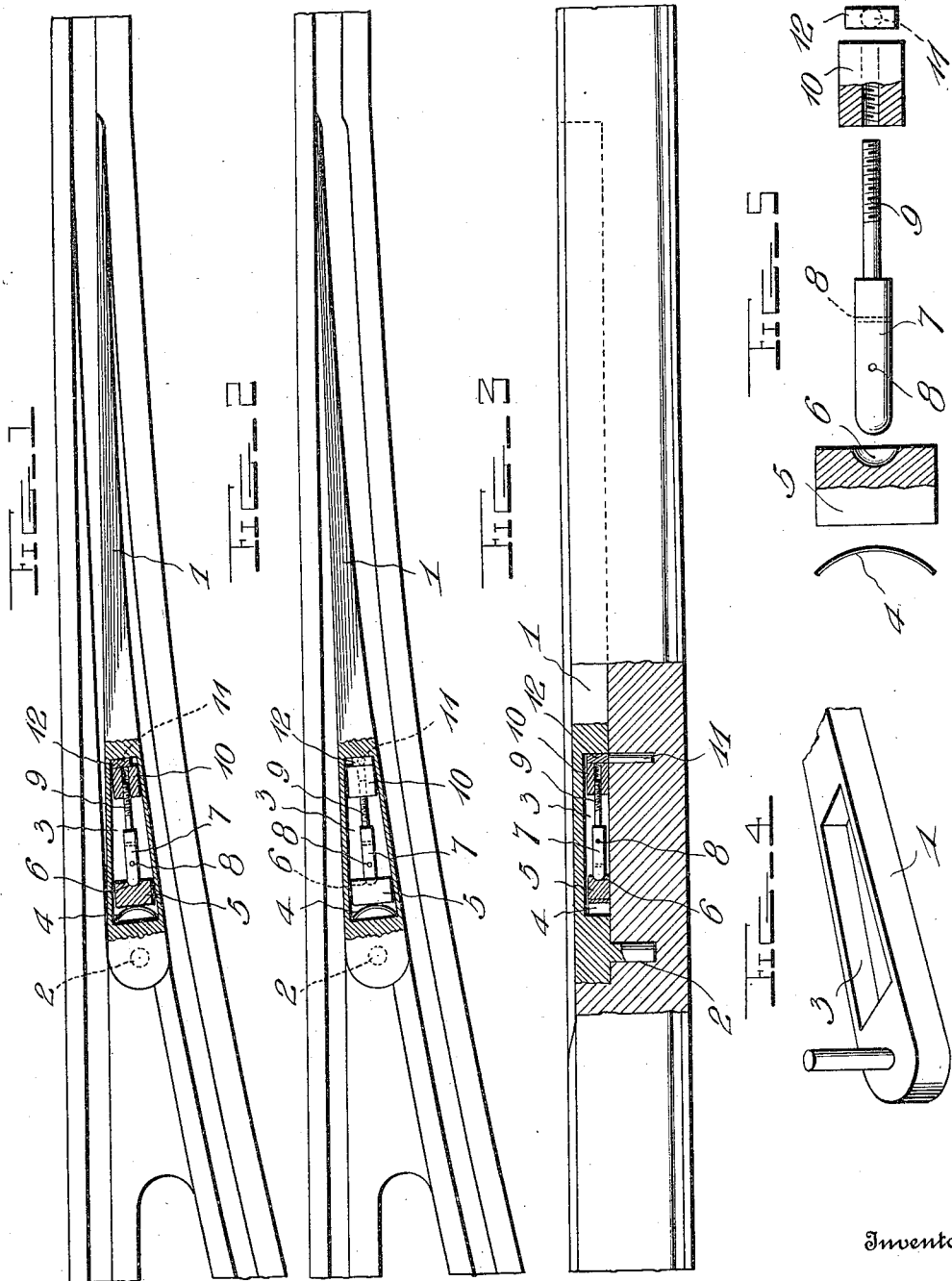


J. H. LANEY.
RAILWAY SWITCH.
APPLICATION FILED OCT. 31, 1911.

1,064,499.

Patented June 10, 1913.



Witnesses

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JOHN H. LANEY, OF SAVANNAH, MISSOURI.

RAILWAY-SWITCH.

1,064,499.

Specification of Letters Patent.

Patented June 10, 1913.

Application filed October 31, 1911. Serial No. 657,755.

To all whom it may concern:

Be it known that I, JOHN H. LANEY, citizen of the United States, residing at Savannah, in the county of Andrew and State of Missouri, have invented certain new and useful Improvements in Railway-Switches, of which the following is a specification.

This invention has relation to railway switches, and has for its object to provide in a switch of the character indicated, a tongue pivoted for movement with means for holding the tongue against vibration after it has been placed adjacent the main or siding track of the track rails.

With this object in view, the structure includes a tongue provided upon its under side with a recess in which is located a member for swinging the tongue from the main to the siding of the track rails. A resilient means is located behind the said turning means and may be adjusted so as to hold the said turning means and the tongue under a desired tension as the trucks of the rolling stock move over the same.

Further objects and advantages will appear in the following description, it being understood that various changes in form, proportions and minor details of construction may be resorted to within the scope of the appended claims.

For a full understanding of the invention reference is to be had to the following description and accompanying drawing, in which:

Figure 1 is a top plan view of a switch showing part of the tongue in section and showing the tongue in one position; Fig. 2 is a similar view showing the tongue in another position; Fig. 3 is a side elevation of a switch showing parts in section; Fig. 4 is an under perspective view of the pivoted portion of the tongue; Fig. 5 is a side elevation and parts in section of the parts which are housed in the recess of the tongue.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawing by the same reference characters.

As shown in the accompanying drawing the tongue 1 is pivotally mounted at the point 2 in the switch frog which may be of any desired pattern. The tongue 1 is provided upon its under side with an elongated recess 3 the long dimension of which is radially disposed with relation to the pivotal point of the said tongue within the said re-

cess, and adjacent the pivotal point of the tongue is located a bowed spring 4, the bowed or intermediate portion of which is disposed away from the pivot point 2 of the tongue and the ends thereof bear against the opposite corners of the recess 3 adjacent the pivot point 2 of the tongue 1. One end of a block 5 bears against the intermediate portion of the spring 4 and at its opposite end the said block is provided with a recess 6. One end of a screw member 7 is journaled in the recess 6 and the said member is provided with a series of transversely disposed openings 8 through which rods or bars may be inserted for the purpose of turning the same. That end portion of the member 7 opposite the end thereof which is journaled in the block 5 is screw threaded as at 9 and engages an internally threaded perforation in a block 10. The block 10 is also located in the recess 3.

A pin 11 is located in the end of the recess 3 remote from that end thereof which is adjacent the pivotal point 2 of the tongue 1 and the said pin is provided with a squared head 12 against which one end of the block 10 bears. The pin is provided at its upper end with a head 12 which lies in the recess 3 and which is shorter in a direction transversely of the recess 3 than the transverse breadth of the said recess, so that the tongue 1 may move transversely of the head 12 and during this movement the head 12 and pin 11 may turn slightly in the base of the switch. To throw the tongue 1 from one side or the other, an ordinary switch horn or bar is used as a lever against either side of the tongue 1 in the usual manner. The object of this device is to subject the pivot point 2 by means of which the tongue 1 is connected with its support to more or less friction, so that the tongue 1 will not have a tendency to swing or vibrate after it has been placed to a desired position. Inasmuch as the block 10 bears directly against the head 12 and the head is mounted in the support of the tongue 1 and the member 7 engages the block 10 and the block 5 and in view of the fact that the spring 4 is interposed between the block 5 and the rear wall of the recess 3 in the tongue, the tension of the spring 4 will have a tendency to hold the pivot 2 of the tongue in close contact with the wall of the opening of the tongue support in which it is received. By turning the member 7 the tension of the

spring 4 may be increased or diminished so that the tongue may be held so that it may be easily swung or difficult to swing as occasion may require. By this arrangement
5 it will be seen that when the tongue 1 is thrown to either of its positions the tension of the spring 4 operating through the recess 6, the pin 7, block 10 and pin 11 will have a tendency to hold the tongue in the position in which it is placed. As the tongue 1
10 is moved from one position to the other the head 12 of the pin 11 moves transversely across the recess 3. To move the tongue a bar or any suitable implement or appliance
15 may be employed. Therefore it will be seen that a simple and an effective mechanism is provided for holding the tongue in its proper position after it has been set and that the parts are housed under the upper
20 portion of the tongue and protected against the weather and other elements which usually attack the small parts in mechanisms of this character.

Having thus described the invention, what
25 is claimed as new is:

1. In a railway switch, a pivoted tongue

having upon its under side a recess, means for holding the tongue when positioned comprising a pin located in the recess and having a head adapted to turn as the tongue
30 swings, and resilient means located in the recess between the head of the pin and the end of the recess for resiliently holding the tongue in position.

2. In a railway switch, a pivoted tongue
35 having upon its under side an elongated recess disposed with its long dimension radially to the pivotal point of the tongue, a pin having a head located in the recess and adapted to turn as the tongue swings, a
40 block bearing against said head, an adjusting screw engaging the block, a second block having a bearing receiving the end of the screw, and a spring interposed between the
45 last mentioned block and the end of the recess.

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

JOHN H. LANEY.

Witnesses:

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ISAAC R. WILLIAMS.