

J. C. CRUM.
HEAD BLOCK FOR SWITCH STANDS.
APPLICATION FILED OCT. 1, 1917.

1,254,989.

Patented Jan. 29, 1918.

Fig. 1.

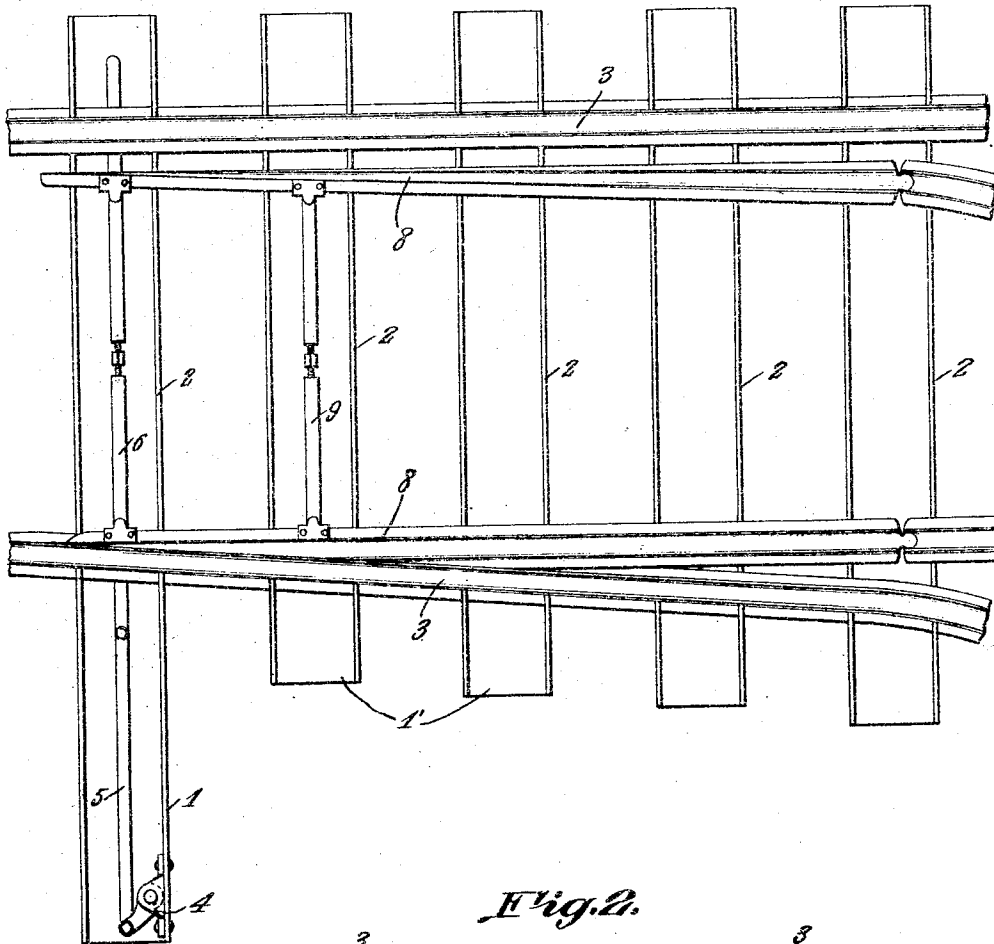


Fig. 2.

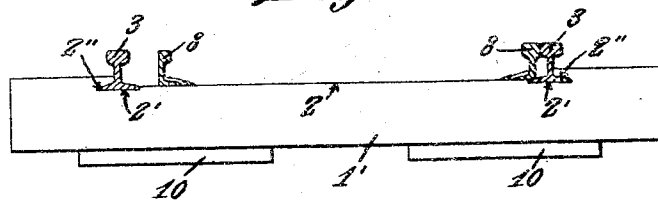
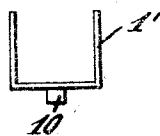


Fig. 3.



Witness

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UNITED STATES PATENT OFFICE.

J. CORWIN CRUM, OF SCOTT CITY, KANSAS.

HEAD-BLOCK FOR SWITCH-STANDS.

1,254,989.

Specification of Letters Patent.

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Application filed October 1, 1917. Serial No. 194,231.

To all whom it may concern:

Be it known that I, J. CORWIN CRUM, a citizen of the United States, residing at Scott City, in the county of Scott and State of Kansas, have invented a new and useful Head-Block for Switch-Stands, of which the following is a specification.

The subject of this invention is a head block for switch stands and the objects of the invention are, first, to provide a head block which will support the ordinary switch stand, second, to provide a head block which will support a switch stand with the bridle rod and connecting rod or link positioned within the block, third, to provide a head block which will prevent spreading of the rails at the switch point, fourth, to do away with sliding plates for the switch points, fifth, to provide a simple, durable, and efficient head block.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, can be made within the scope of what is claimed without departing from the spirit of the invention.

A practical embodiment of the invention is shown in the accompanying drawing, wherein:

Figure 1 is a plan view of a switch constructed with a head block formed in accordance with the invention;

Fig. 2 is a side elevation of a switch tie, rails being shown in cross section in place thereon;

Fig. 3 is an end elevation of a head block.

Referring to the drawing by numerals of reference:

The head block consists of a channel member 1, preferably made of metal, and having its sides cut down or depressed at their median part, and the bottom of this depression is offset downwardly at each end as indicated at 2' while the end walls are undercut as at 2'' thereby forming seats for the rails 3.

A switch stand 4 is secured to the head

block by bolts or otherwise and its crank arm has pivotal engagement with a link 5 which in turn is pivoted to a bridle rod 6. The bridle rod is connected, as usual, through plates 7 to the switch points 8.

The switch ties 1' are formed the same as the head block having a similar cut-down portion 2, and rail seats 2'. Bridle rods 9, only one of which is shown, may extend between the switch points 8, to which they are joined, and be positioned within the channels of the ties 1'.

A consideration of Fig. 2 will show clearly that the switch points 8 ride on the edges of the ties 1' and head block 1 and are firmly seated thereon without necessity for sliding plates.

The head block and the ties may be formed with a longitudinally disposed rib 10 underlying each end, which acts to strengthen the tie at the point of support for the rail and also prevents the tie creeping.

While the head block has been shown herein with the bridle rod within its channel it is to be understood that the usual form of switch stand may be secured on the head block and the bridle rods be placed between the head block and ties in the usual manner.

Having thus described the invention, what is claimed as new and sought by Letters Patent, is:

1. A head block for switch stands, comprising a channel member provided with a depressed portion in the edge of each side flange, the bottom of the depression offset downwardly at each end to provide a seat for the base flange of a rail, and the end walls of the depression undercut.

2. A head block for switch stands, comprising a channel member provided with depressions in the edges of the side flanges, said depressions forming rail seats, rails seated in the seats, switch points sliding on the side flanges of the channel member, a bridle bar within the channel member and connecting the switch points, a switch stand connected to the bridle bar, and means for securing the switch stand to the head block.

3. A head block for switch stands, comprising a channel member provided with depressions in the edges of the side flanges,

said depressions forming rail seats, rails seated in the seats, switch points sliding on the side flanges of the channel member, a
5 bridle bar connecting the switch points, a
switch stand connected to the bridle bar, and means for securing the switch stand to the head block.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

J CORWIN CRUM.

Witnesses:

IONE LANDRUM,
U. G. RUTH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."