

R. A. McCLURE,
 MONORAIL SWITCH.
 APPLICATION FILED APR. 19, 1916.

1,234,918.

Patented July 31, 1917.

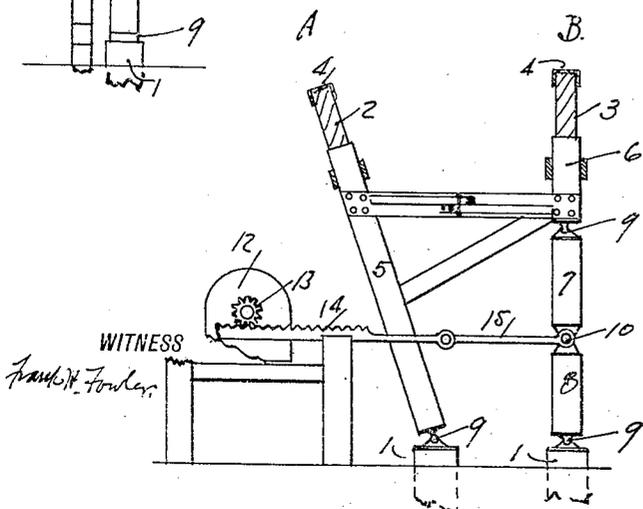
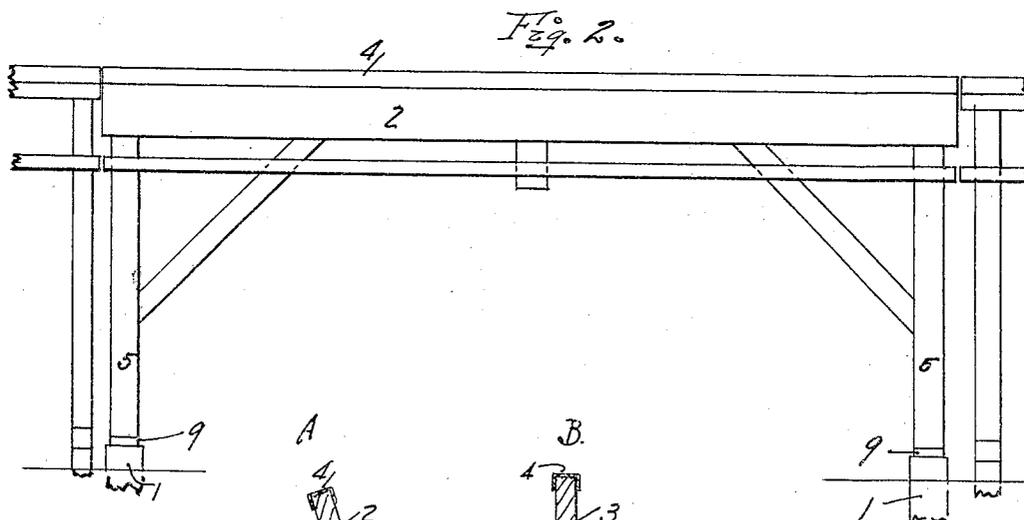
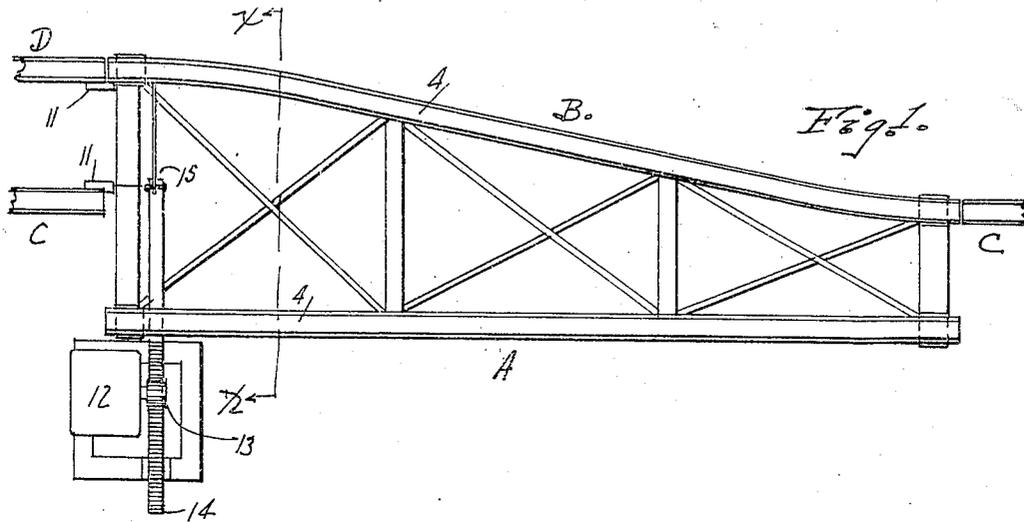


Fig. 3.

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MONORAIL SWITCH.

1,234,918.

Specification of Letters Patent.

Patented July 31, 1917.

Application filed April 19, 1916. Serial No. 92,078.

To all whom it may concern:

Be it known that I, ROYAL A. McCLURE, a citizen of the United States, and a resident of Seattle, in the county of King and State of Washington, have invented certain new and useful Improvements in Monorail Switches, of which the following is a full, true, and exact specification.

My invention relates to improvements in monorail switches and has for its principal object to provide a hinged switch frame upon which the switch is mounted and which carries the loads more directly and is cheaper to construct; and to provide an improved toggle operating means for moving the switch.

Other objects will appear as my invention is more fully explained in the following specification, illustrated in the accompanying drawings and pointed out in the appended claim.

In the drawings, Figure 1 is a plan of my switch frame. Fig. 2 is substantially a side elevation of same. Fig. 3 is a sectional elevation on line $x-x$ of Fig. 1.

Referring more particularly to the drawings, numeral 1 indicates bearing posts upon which the switch is supported. The switch proper includes tracks A and B, the former straight and the latter curved. The tracks A and B are arranged to connect the ends of a main line C and a siding D respectively. The tracks A and B include a stringer 2 and 3 respectively. Each stringer has a rail 4. The stringers 2 are supported on posts 5 and upon the spread end of the switch the stringer under track B is supported on a toggle post which is composed of members 6, 7 and 8, hinged together as shown. Hinges 9 are provided at the base of post 5 and member 8 and at the top of member

7. Between post members 7 and 8 a hinge 10 is provided. The tracks A and B are thoroughly braced together and act as a unit. Stops 11 are provided on the ends of lines C and D to limit the movement of the switch. The switch is operated by means of a motor 12 having a pinion 13 which meshes with a rack 14. A link 15 connects the end of rack 14 and hinge 10. When the motor is started, the toggle post 6-7-8 is collapsed and the entire switch swings until posts 5 assume a vertical position and the track A lines with the line C-C and vice versa. Any other convenient form of operating mechanism such as an arrangement of normally operated levers may be used to swing the switch. Any desirable form of locking mechanism may be employed to hold the switch in alinement when once set.

While I have shown a particular form of embodiment of my invention, I am aware that many minor changes therein will readily suggest themselves to others skilled in the art without departing from the spirit and scope of the invention, and I therefore desire to avoid being limited to the exact form shown and described.

Having described my invention, what I claim as new and desire to protect by Letters Patent, is—

In a mono-rail switch, the combination of a pair of divergent tracks securely tied together, hinged posts supporting said tracks which are swingable vertically and laterally, and operating means, whereby the said switch may be swung so as to aline either of the said tracks with the end of an adjoining track.

ROYAL A. McCLURE.