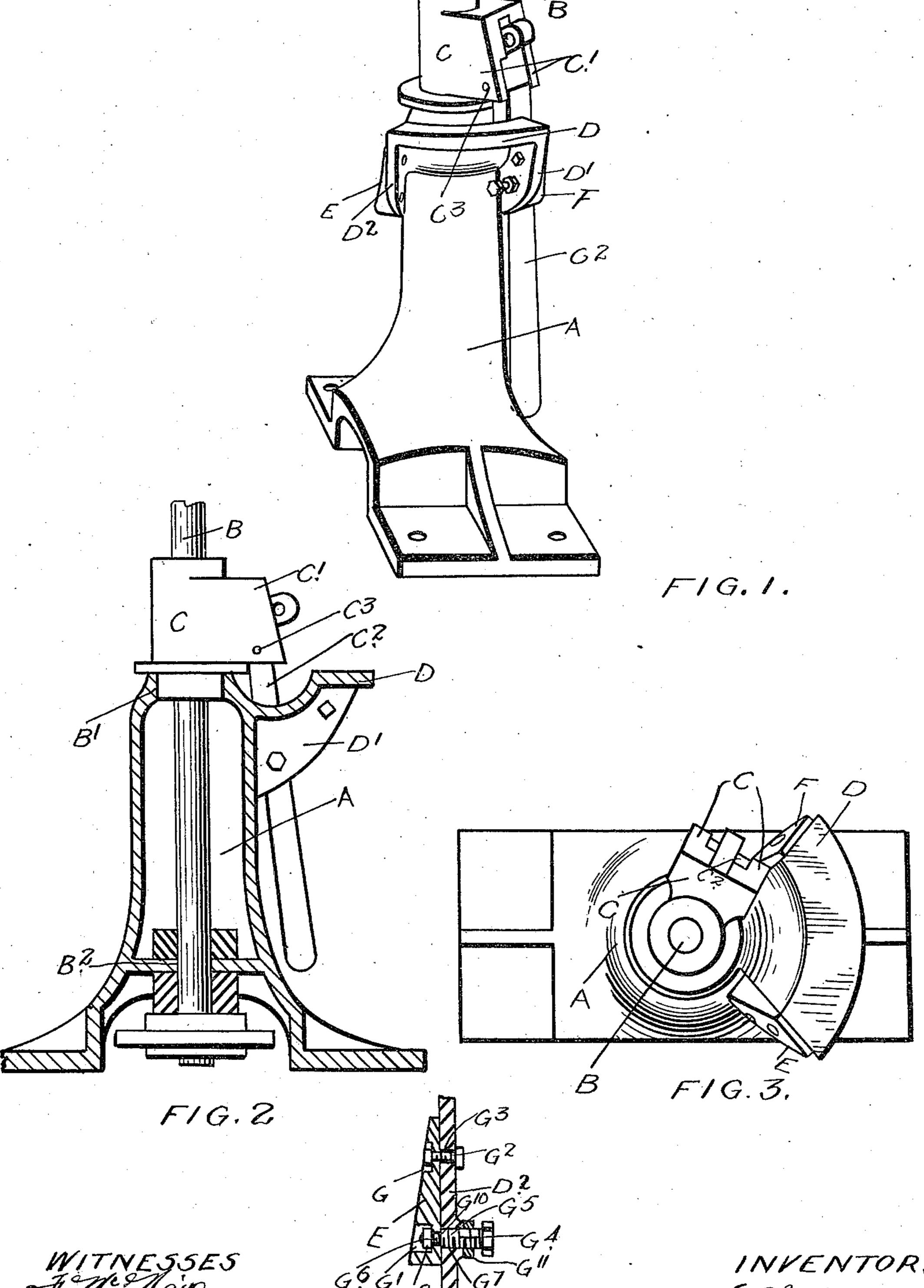
E. G. JACKSON. RAILWAY SWITCH.

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UNITED STATES PATENT OFFICE.

ERNEST GEORGE JACKSON, OF TORONTO, ONTARIO, CANADA.

RAILWAY-SWITCH.

996,858.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, Ernest George Jackson, of the city of Toronto, in the county of York, in the Province of Ontario, Canada, 5 have invented certain new and useful Improvements in Railway-Switches, of which

the following is the specification.

My invention relates to improvements in railway switches and the object of the in-10 vention is to devise a simple device whereby | the adjustment of the switch point may be accomplished by the operation of the switch stand lever so as to positively and automatically bring the switch point to a com-15 pletely closed position and thus dispense with various means of adjustment in the switch itself, and it consists essentially of a bracket forming part of the switch stand and | of segmental form, wedge blocks secured to | 20 each side of the bracket and adjustable means for securing the block to the bracket, whereby the wedge may be adjusted to different degrees of incline, as hereinafter more particularly described by the following speci-25 fication.

Figure 1 is a general perspective view of a switch stand. Fig. 2 is a vertical sectional view through the switch stand. Fig. 3 is a plan view of the switch stand. Fig. 4 is an 30 enlarged sectional detail of the means for adjustably connecting the wedge blocks to the segmental switch stand bracket.

In the drawings like letters of reference indicate corresponding parts in each figure.

"A" is a switch stand of usual form and provided with a vertically journaled mast "B" held in the usual manner in the vertical bearings "B1" and "B2," as will be seen from the drawings. I only show the lower 40 part of the mast the upper part to which the target is secured being broken away.

"C" is a block secured to the mast "B" and provided with the usual jaws "C" between which the operating lever "C2" is

45 pivoted on pin "C3."

All the parts I have hitherto described are usual to the construction of switch stands and I therefore lay no claim to them. I will now describe the means by which the 50 switch point is positively drawn into its two closed positions when the operating lever "C²" is thrown into its depressed position and which I claim to be new.

"D" is a bracket secured to or forming | 55 part of the switch stand. The bracket "D" | 1. In a switch stand operating mecha-

depending wings "D1" and "D2," forming

the sides of the bracket.

"E" and "F" are wedge blocks provided with countersunk orifices "G" and "G1," 60

(see Fig. 4).

"G2" and "G4" are bolts extending through the countersunk orifices "G" of the blocks "E" and "F" and the orifices "G"" in the wings "D1" "D2." It will, of course, 65 be understood that the bolt "G2" extends through the countersunk orifices and is used to secure wedge after adjustment by bolt " G^4 ."

"G4" is a bolt provided with a major por- 70 tion "G⁵" and a minor threaded portion "G⁶." The major threaded portion "G⁵" is threaded into an orifice "G⁷" and a minor threaded portion "G⁶" extends loosely through the orifice "G1" the end thereof 75 being provided with a nut "G" threaded thereon. It will be seen by referring to Fig. 4 of the drawing, that the wedge blocks "E" and "F" are held between the shoulder "G10" and the nut "G8." It will thus be 80 seen that by turning the bolts "G4" in the orifice "G" that the lower end of the blocks "E" and "F" may be adjusted inwardly or outwardly to increase or decrease the incline of the blocks.

"G" is a lock nut designed to lock the bolt "G⁵" in place after it has been ad-

justed.

It will be readily seen from this description that when the lever "C2" is lowered the 90 side of the lever is brought into contact with the inclined face of one of the blocks "E" and "F." It will be seen that when the lever "C²" is thrown over into either closed positions and brought into contact with the in- 95 clined blocks, that the inclined face of such blocks would further carry the lever over toward either of the closed positions, so as to bring the switch point positively tight into place. If any adjustment is required to 100 bring the switch point more closely into position, the adjustment may be quickly and readily accomplished by turning the threaded nut "G4," so as to give a greater incline to the inclined blocks.

By my device the mast is retained intact and the adjustment automatically accomplished in a simple and efficient way by the operation of the operating lever.

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What I claim as my invention is:

is of segmental form and is provided with | nism for switches, the combination with the

mast, the block secured to the mast and the operating lever pivoted between the jaws of the blocks, of inclined members supported by the switch stand and with which the op-5 erating lever is designed to be brought into contact as it is lowered at its closed positions,

as and for the purpose specified.

2. In a switch stand operating mechanism for switches, the combination with the mast 10 supported in the stand, the block secured to the mast provided with jaws and the operating lever pivoted between the jaws of a bracket forming part of the switch stand, wedge blocks supported by the bracket and 15 with which operating lever is designed to be brought into contact, as it is lowered, as and for the purpose specified.

3. In a switch stand operating mechanism for switches, the combination with the mast ²⁰ supported in the stand, the blocks secured to the mast provided with jaws, and the operating lever pivoted between the jaws, of a bracket forming part of the switch stand, wedge blocks supported by the bracket and ²⁵ with which the operating lever is designed to be brought into contact as it is lowered, as adjustable means for increasing the incline of the blocks as and for the purpose

specified. 4. In a switch stand operating mechanism for switches, the combination with the mast supported in the stand, the blocks secured to the mast provided with jaws and the operating lever pivoted between the jaws, of a bracket forming part of the switch stand, wedge blocks supported by the bracket and with which the operating lever is designed to be brought into contact as it is lowered, means for pivoting the block at the top, a

threaded bolt extending through the lower 40 portion having an enlarged portion extending through the bracket, a nut threaded on to the bolt so as to engage the block between itself and the enlarged portion of the bolt as

and for the purpose specified.

5. In a switch stand operating mechanism for switches, the combination with the mast having a crank thereon, of an operating lever and handle suitably secured to the mast and means for increasing the throw of the 50 crank beyond the normal by throwing the operating lever from the horizontal to the vertical position as and for the purpose specified.

6. In a switch stand operating mechanism 55 for switches, the combination with the mast, the block secured to the mast and provided with jaws and the operating lever pivoted thereon, of inclined members supported by the switch stand and with which the operat- 60 ing lever is designed to be brought into con-

tact as it is lowered at its closed position. 7. In a switch stand operating mechanism for switches, the combination with the mast supported in the stand, a lever connected with 65 the mast, and means for causing the lever to move about the axis of the mast as said lever

is moved downwardly.

8. In a switch stand operating mechanism for switches, the combination with the mast ⁷⁰ supported in the stand, a lever connected with the mast, and adjustable means for causing the lever to move about the axis of the mast as said lever is moved downwardly.

ERNEST GEORGE JACKSON.

Witnesses:

Louis Baginer, S. B. RITCHIE.

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