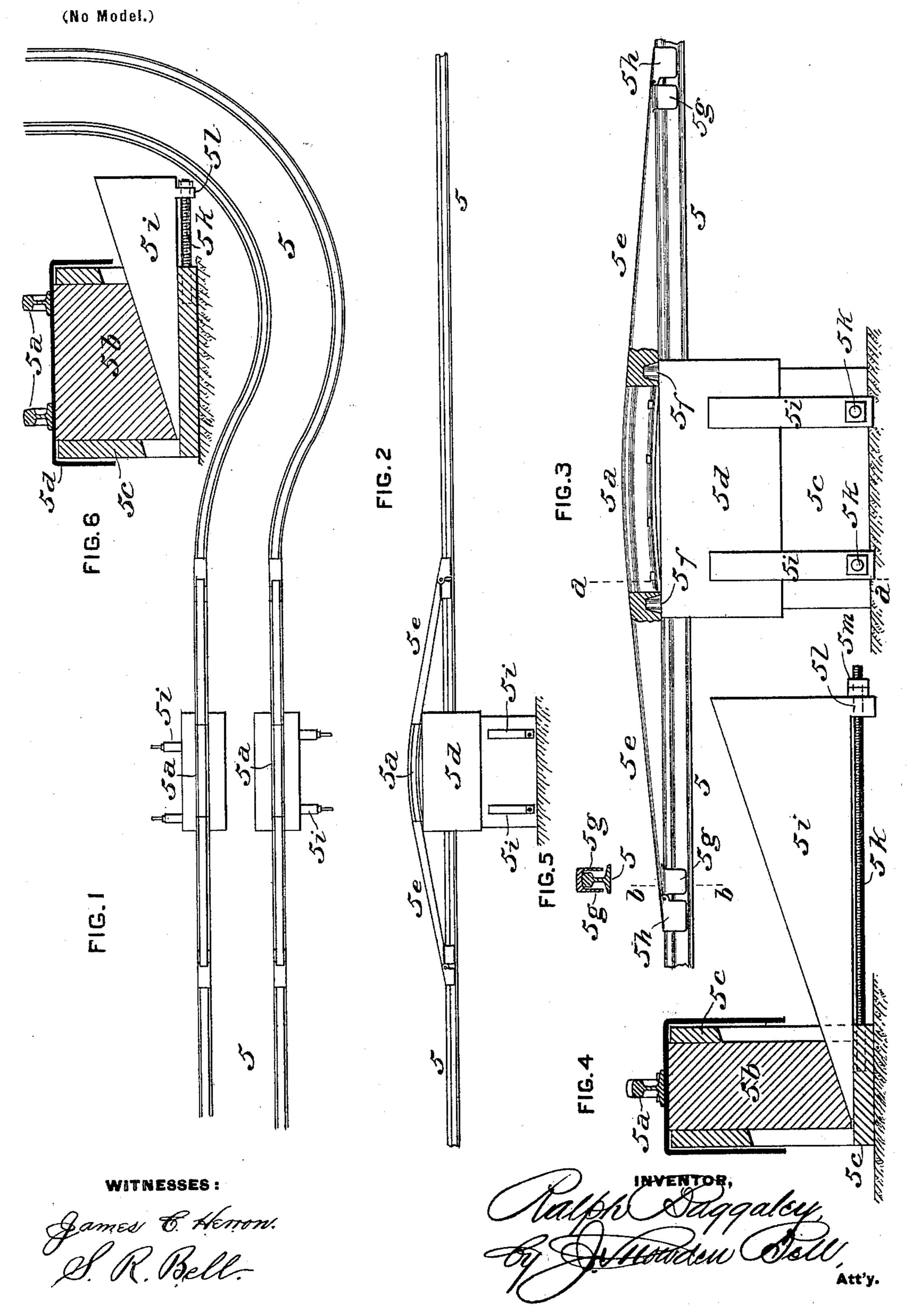
## R. BAGGALEY. RAILROAD TRACK ADJUSTER.

(Application filed Nov. 7, 1901.)



## United States Patent Office.

RALPH BAGGALEY, OF PITTSBURG, PENNSYLVANIA.

## RAILROAD-TRACK ADJUSTER.

SPECIFICATION forming part of Letters Patent No. 692,498, dated February 4, 1902.

Application filed November 7, 1901. Serial No. 81,471. (No model.)

To all whom it may concern:

Be it known that I, RALPH BAGGALEY, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a certain 5 new and useful Improvement in Railroad-Track Adjusters, of which improvement the

following is a specification.

My present invention relates to means for adjusting the height of a portion of a railroad-10 track relatively to contiguous portions of the same, and while more particularly designed for application in connection with the automatic haulage and delivery system which is set forth in an application for Letters Patent 15 filed by me August 16, 1901, Serial No. 72,276, is also applicable to railroad-tracks which are operated under other conditions.

The object of my invention is to provide an appliance by which a portion of a track may 20 be raised to a greater or less degree relatively to the portions thereof adjoining its ends and be adapted when so raised to properly receive and deliver cars from and to said adjoining

portions.

The improvement claimed is hereinafter

fully set forth.

In the accompanying drawings, Figure 1 is a plan or top view of a portion of a railroadtrack, illustrating an application of my inven-30 tion; Fig. 2, a side view of the same; Fig. 3, a similar view, on an enlarged scale and partly in section, with the movable rails shown as standing at a lower level than in Fig. 2; Fig. 4, a transverse section through the adjusting 35 members of a single line of rails at the line a a of Fig. 3; Fig. 5, a similar section through a rail and bridge-piece at the line b b of Fig. 3, and Fig. 5 a similar section through two lines of rails as adapted to be simultaneously 40 adjusted.

The haulage and delivery system of my application Serial No. 72,276 aforesaid comprehends a line of railroad-track over the tangents of which cars are conveyed by an over-45 head propelling-cable and around the curves of which they are traversed by their own gravity, there being a short upward and a succeeding downward gradient at or adjacent to the entrance of each curve and the cars be-50 ing pushed up the ascending gradients by the cable and thereafter automatically released therefrom and allowed to pass down the de-

scending gradients and around the curves by gravity. It will be obvious that the degree of elevation of the track which is most desir- 55 able will be governed by the weight of the cars and their load, the radius of curvature, and other conditions and may to attain the best operative results be varied in accordance with variations in conditions of track or serv- 60 ice, or both. My present invention affords means whereby such adjustment of the elevation of the track may be properly and readily effected.

In the practice of my invention I provide 65 in each of the lines of rail of a railroad-track 5, on which cars are normally run only in one direction, a vertically-movable section of rail 5<sup>a</sup>, which is located, preferably, in a tangent of the track, adjacent to the junction of the 70 entrance end of a curve therewith, by the "entrance" end being meant that end to which the cars pass from the tangent in their normal direction of traverse. Each of the movable sections of rail 5a is downwardly 75 bent or inclined at a comparatively slight angle from its middle to each of its ends and is secured to a seat-block 5b, which is fitted to move vertically in guides in a frame or casing 5°, fixed to a suitable foundation be- 80 low the line of rails. The seat-block 5b is preferably covered and protected by a cap 5d, of plate metal, which is bent into channel or inverted-U form in transverse section and is interposed between the seat-block and the 85 movable rail-section. The seat-blocks and caps of each line of rails fit neatly, and are adapted to move vertically between the ends of the fixed rails 5, which adjoin the movable sections 5a, and the transit of the cars to and 90 from said movable sections is effected over bridge-pieces 5°, which are articulated to the seat-blocks 5<sup>b</sup> by means of pins or bolts 5<sup>f</sup>, fixed to the seat-blocks, which enter tapered sockets in the bridge-pieces, near the ends 95 thereof, which adjoin the movable rail-sections. The opposite ends of the bridgepieces are provided with downwardly-extending lateral flanges 5g, which fit and are adapted to slide on the sides of the heads of the 103 fixed rails and maintain the bridge-pieces in proper relation therewith. The outer ends of the bridge-pieces may, if desired, be drawn down to thin edges, so as to permit the car-

wheels to run readily to them from the fixed rails, but are preferably, as shown, provided with removable extensions or shoes 5h, the outer ends of which are drawn down to thin 5 edges and which embrace the rail-heads by lateral flanges similarly to the ends of the bridge-pieces. The employment of the separate and removable shoes enables a thinner edge to be used than in the case of the bridge-10 pieces and also admits of their ready removal when worn without interference with the connection of the bridge-pieces and movable rail-sections.

The vertical adjustment of the seat-blocks 15 5b for the purpose of imparting the desired elevation to the movable rail-sections 5° may be effected in any suitable and preferred manner, either manually or by the application of power. In the instance illustrated the 20 seat-blocks are shown as transversely recessed for the reception of wedges 5i, upon which they rest, said wedges when moved in the direction of the central plane of the track simultaneously raising the superposed seat-25 blocks and movable rail-sections and when moved in the opposite direction permitting them to be lowered by their own gravity. It will be seen that the bridge-pieces follow the movable rail-sections in their movements, so 30 that at any and all elevations of the movable rail-sections a continuous avenue is provided for the traverse of the car-wheels to and from them. The seat-blocks are in this instance shown as movable by means of ad-35 justing-screws 5k, journaled in the bottom of the casing 5° and revoluble by the application of hand or other power to their outer ends, said screws engaging nuts 51 on the wedges 51 and being held in adjusted position by lock-40 nuts 5<sup>m</sup>.

As shown in Figs. 1 to 4, inclusive, the movable sections of the two lines of rail are independently adjustable, being supported on independent seat-blocks, each of which is pro-45 vided with adjusting mechanism, as above described. Fig. 6 illustrates a construction in which both of the movable rail-sections are fixed upon a single seat-block and are therefore coincidently adjusted.

It will be obvious to those skilled in the art that any known and preferred mechanical expedients may within the scope of my inven-

tion be employed to apply the power requisite for elevating the seat-blocks and movable rail-sections and that the power may be ap- 55 plied either manually, as through a wrench, to rotate the adjusting-screws, or be exerted by a compressed-air or other motor acting directly or indirectly on the adjusting-screws.

I claim as my invention and desire to se- 60

cure by Letters Patent—

1. In a railroad-track, the combination of fixed rails, an intermediate movable rail-section, bridge-pieces articulated at one end to the movable section and resting, at their op- 65 posite ends, on the fixed rails, and means for vertically adjusting the movable section.

2. In a railroad-track, the combination of fixed rails, an intermediate vertically-movable seat-block, a rail-section fixed to said 70 seat-block, bridge-pieces articulated, at one end, to the seat-block and resting, at their opposite ends, on the fixed rails, and means for vertically adjusting the seat-block.

3. In a railroad-track, the combination of 75 fixed rails, an intermediate vertically-movable seat-block, a rail-section fixed to said seat-block, bridge-pieces articulated, at one end, to the seat-block and resting, at their opposite ends, on the fixed rails, lateral guide- 80 flanges fixed to the bridge-pieces and fitting the sides of the fixed rails, and means for ver-

tically adjusting the seat-block.

4. In a railroad-track, the combination of fixed rails, an intermediate vertically-mov- 85 able seat-block, a rail-section fixed to said seat-block, bridge-pieces articulated, at one end, to the seat-block, and resting, at their opposite ends, on the fixed rails, removable thin-edged shoes or extensions connected to 90 the ends of the bridge-pieces farther from the movable rail-section, and means for vertically adjusting the seat-block.

5. In a railroad-track, the combination of fixed rails, an intermediate vertically-adjust- 95 able seat-block, a rail-section fixed to said seat-block, a wedge supporting the seat-block and fitting a transverse recess therein, and an adjusting-screw journaled in a fixed bearing and engaging a nut on the wedge.

RALPH BAGGALEY.

Witnesses:

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