No. 880,717.

PATENTED MAR. 3, 1908.

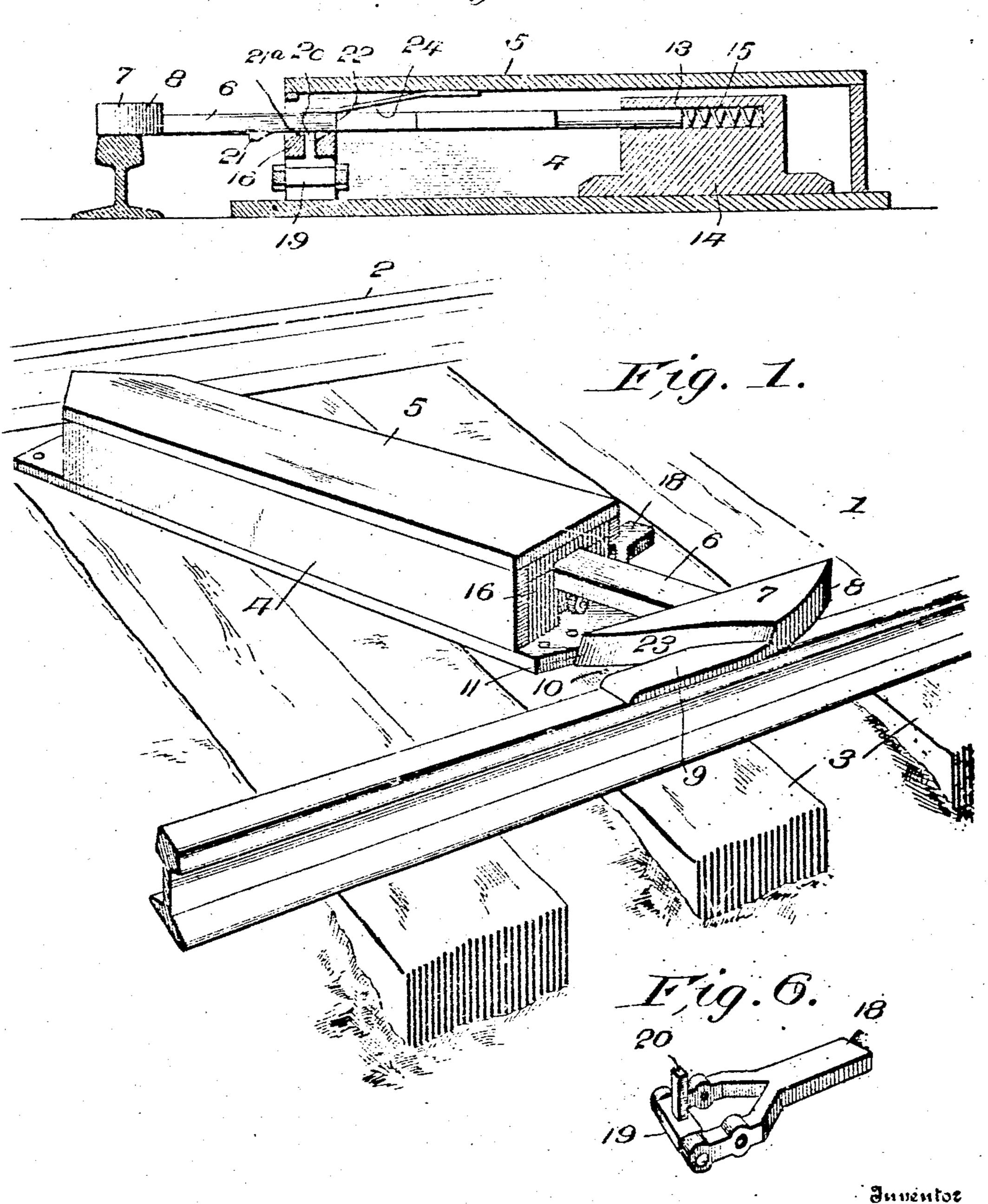
C. W. CLARKE.

DERAILING DEVICE.

APPLICATION FILED JULY 5, 1907.

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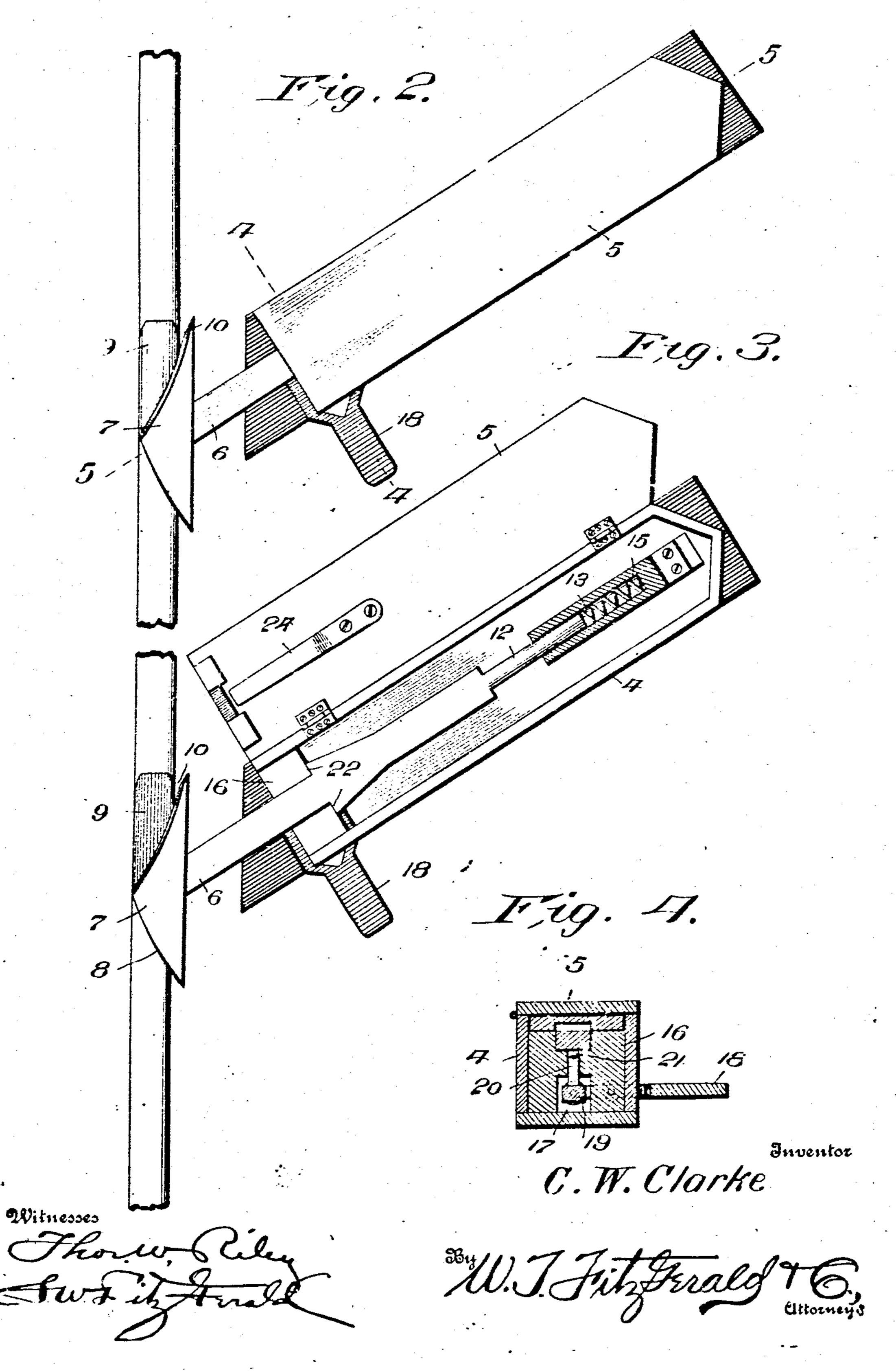
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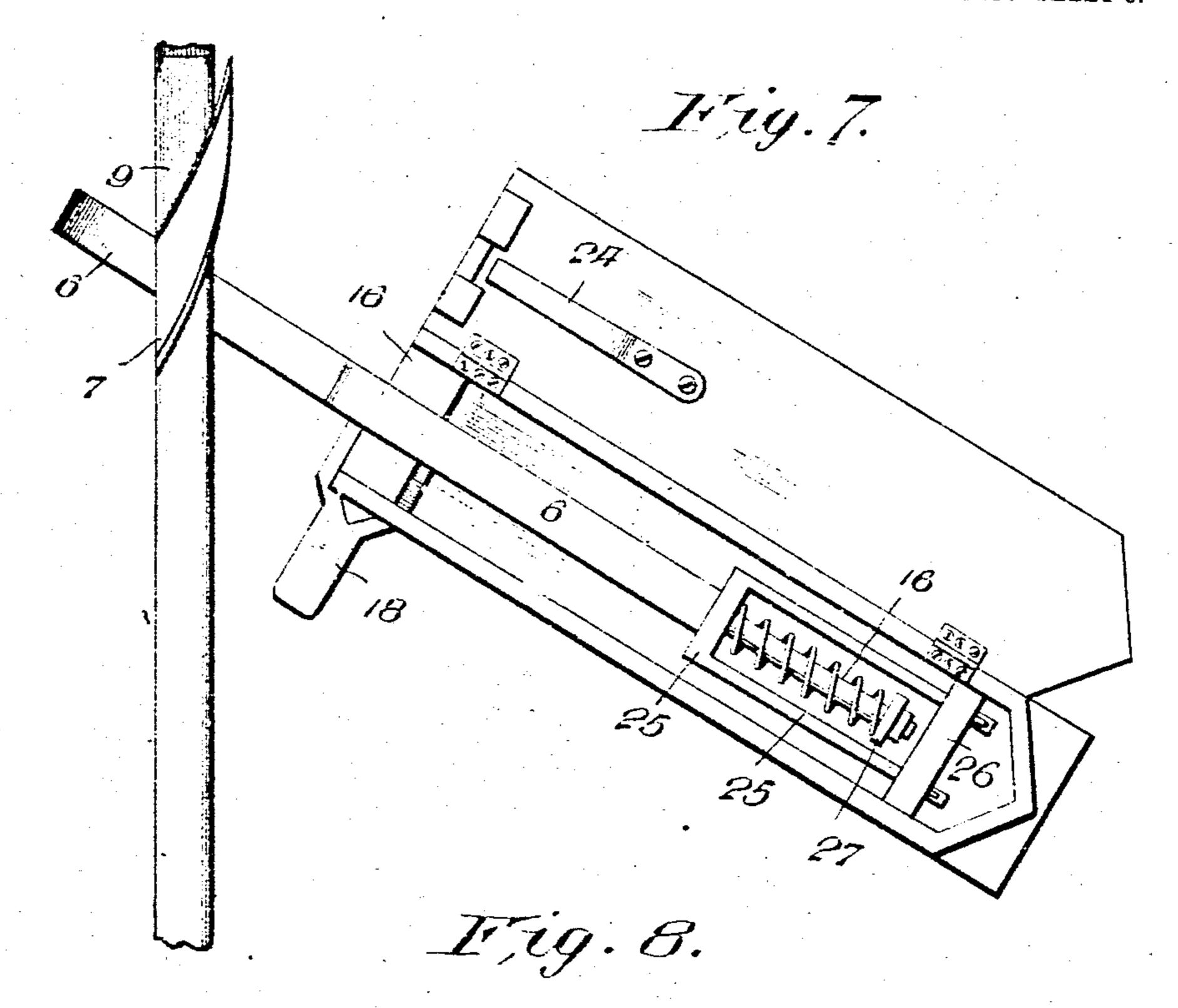
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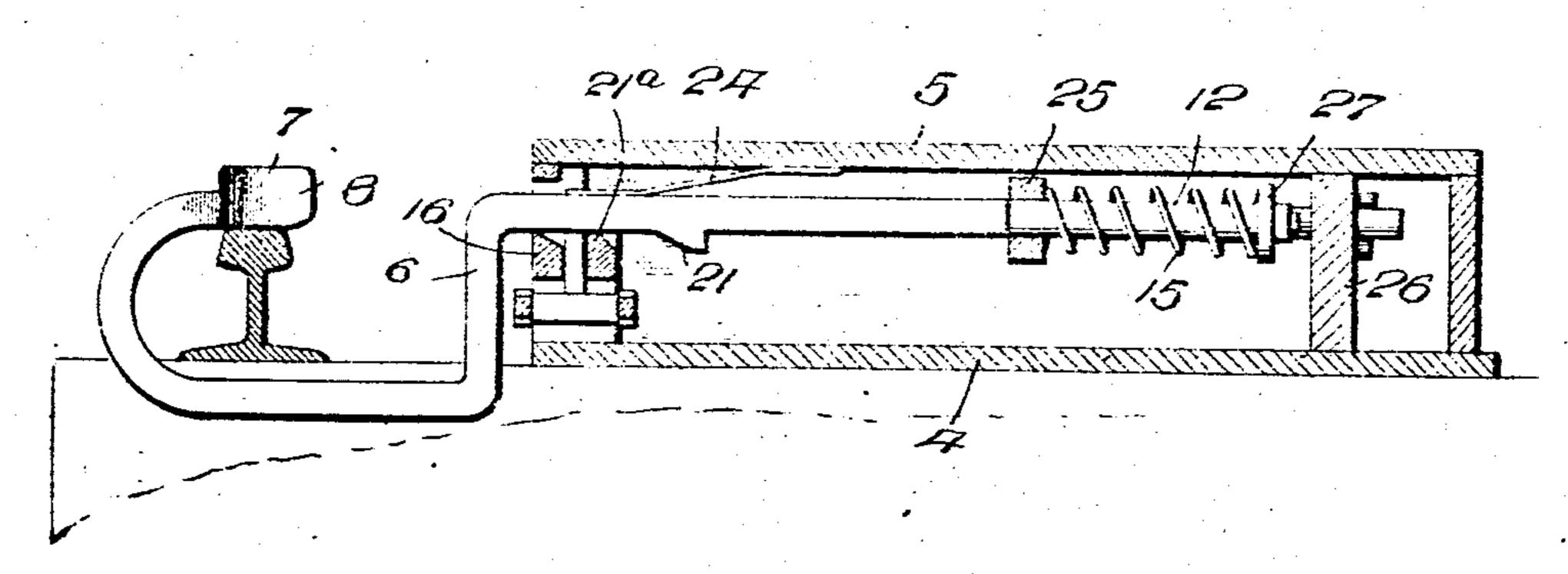
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3 SHEETS-SHEET 3.





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UNITED STATES PATENT OFFICE.

CHARLES W. CLARKE, OF SWISS, WEST VIRGINIA

DERAILING DEVICE.

No. 880,717.

Specification of Letters Patent.

Patented March 3, 1908.

Application filed July 5, 1907. Serial No. 382,318

To all whom it may concern:

of the United States, residing at Swiss, in the | vided with a lid or covering 5, said cover 5 ginia, have invented certain new and useful erably centrally disposed in said housing do hereby declare the following to be a full, | elongated arm 6, said arm having secured at clear, and exact description of the invention, such as will enable others skilled in the art to 10 which it appertains to make and use the same.

My invention relates to new and useful improvements in derailing devices for railway tracks and more particularly to that class 15 adapted to be used in connection with switches to derail any car left standing on the switch which for any reason is moved to-

ward the main track.

The object of my invention is to produce 20 a cheap, durable and efficient device and one

that can be automatically operated.

A further object is to provide means for disposing the derailer from off the track when the cars are moving in one direction so 25 that said cars can pass freely over the switch rails.

A still further object is to provide means for releasing the derailing device so that the same will be extended over one of the switch 30 rails and in position to engage the wheels of | posed the inner end of a releasing lever 18, one side of the car and direct the same off of the track.

Other objects and advantages will be hereinafter more clearly referred to and pointed

35 out in the claims.

In the accompanying drawings, which are made a part of this application, I have shown

the preferred forms of my invention.

In said drawings-Figure 1 is a perspec-40 tive view of my improved derailing device shown in position upon the track-way. Fig. 2 is a top plan view of the same. Fig. 3 is a similar view showing the cover of the housing containing the operating mechanism open. 45 Fig. 4 is a transverse sectional view as seen from the dotted line 4—4 Fig. 2. Fig. 5 is a longitudinal sectional view as seen from the 50 moved from position, and, Figs. 7 and 8 are | released. After the train has left the switch, slightly modified form of device.

55 railroad track rails and 3 the cross ties upon | the latch 21 and raising said latch above the which said rails are secured. Secured to ledge 21°, whereupon the spring 15 will

; said ties in any preferred manner is an elon-Be it known that I, C. W. Clarke, citizen gated housing 4, said housing being procounty of Nicholas and State of West Vir- being removably secured thereto. Pref- 60 Improvements in Derailing Devices; and I and extending beyond one end thereof is an its outer end a derailing head proper 7, said head being of a greater width than the rail 65 upon which it is disposed and has one of its ends 8 curved and the opposite end thereof partially cut away to form a projection 9, said projection being substantially the same width as the rail upon which it rests, thereby 70 forming a notch 10 between said member 9 and the extended end 11 of the derailing head 7, that portion of the derailing head 7 extending above the member 9 being also curved for a purpose to be hereinafter set 75 forth. The inner end of the arm 6 is reduced as shown at 12 and is adapted to enter a socket 13 in a spring retaining member 14 secured to the inner end of the housing 4. A controlling spring 15 is disposed in said 80 socket, against which takes the inner end of the reduced portion 12 of the member 6. The opposite end of the housing 4 is provided with a closure 16, said closure having in its lower edge a way 17 in which is dis- 85 said lever being bifurcated at its inner end and pivotally secured to said closure 16. Pivotally mounted between the extreme inner ends of the bifurcated portion of the 90 releasing lever 18 is a bar 19, said bar having an upwardly projecting finger 20 which is adapted to be disposed through a vertical opening in the closure 16 and extend into the path of a latch 21 secured to the under side 95 of the elongated arm 6.

In operation the head 7 is normally disposed over one of the rails and when a train is coming into the switch, the flange upon the first wheel will encounter the curved face 10t 8 of the head 7 and direct said head and elongated arm inwardly, the latch 21 being disposed into engagement with a ledge 212 dotted line 5-5 Fig. 2. Fig. 6 is a detail formed on the closure 16, thereby holding perspective view of the releasing lever re- | the head 7 from off the rail until the arm 6 is 105 plan and sectional views respectively of a one of the trainmen disengages the latch 21 from the ledge 21° by depressing the outer Referring to the figures by numerals of | end of the releasing lever 18, thereby forcing reference, I and 2 indicate the usual form of the finger 20 upwardly into engagement with 116

is again disposed over the rail, the ourward | the case with the derailing devices commonly means of shoulders 22 formed on either side | when the train comes in contact with the 5 of the arm 6. When the head 7 is in this position and a car has been left upon the switch, should said car be moved along the path of the wheels. switch toward the main track, the flange of What I claim is:one of the wheels will enter the notch 10 and 1 1. A derailer of the class described comto the tread of the wheel take upon the member | prising a housing, an arm longitudinally 9 and as the car still moves forward, the movable in said housing and extending becurved face 23 of the head 7 will direct the | youd one end thereof, a derailing head seforward movement of said car and prevent- | said arm to direct said head over the rail. a 15 ing the same from going upon the main latch secured to said arm, a linger pivotally track. As best shown in Fig. 5 of the draw- mounted in said housing and in the path of ings, a spring 24 is employed to more reliably | said latch, a ledge, and means to dispose the ledge 21s, said spring being secured at whereby the derailing head will be disposed 20 one end to the lid 5 and its opposite end ex- i over the rail. tended so that said extended end is disposed . 2. A derailing device of the class described into engagement with the upper face of the comprising an arm, a head secured to one arın 6.

25 modified form in that the arm 6 is disposed the opposite end of said head and forming a under the rail and into engagement with the head 7 on the outside of the trackway. The head 7 is also slightly modified in that the curved face 8 is directed in the opposite di-30 rection from that shown in the other figures, and in place of the spring retaining member false end 26. It will also be noted that the 35 latch 21 and the ledge 21° are reversed, said latch, a member having a finger adapted It will also be seen that the controlling to disengage said latch from said ledge when spring 15 is disposed around the reduced desired, and a controlling spring at the inner by any preferred means as by a washer and, over the rail when the arm is released. 49 nut 27.

have provided a construction of but very two subscribing witnesses. few parts so that should any of said parts become worn or broken they can be readily 15 replaced at a very nominal cost. It will" also be seen that my device is positive in its operation and is one whereby a train can,

direct the arm 6 outwardly until the head 7 | take the switch without having to stop as is movement of said arm being limited by in use at this time as it will be seen that 50 derailer on entering the switch, said derailer will be disposed at one side and out of the

car from off the rails, thereby stopping the 'cured to said arm, means at the inner end of 60 dispose the latch 21 into engagement with , said latch out of engagement with said ledge 65

end of said arm, said head having one of its 70 In Figs. 7 and 8 I have shown a slightly ends curved, a detailing member secured to notch between said member and the ex-· tended end of said head, and means to dispose said head over a rail, and additional 75 means to hold said head from off the rail.

3. A derailing device of the class described comprising an arm, a head secured to one 14, a clevis 25 is substituted, said clevis end of said arm, a housing for said arm, being secured in the housing 4 by means of a shoulders on said arm, a latch carried by 80 said arm, a ledge adapted to be engaged by end 12 of the arm 6 and is held thereon end of said arm adapted to direct the head 85

In testimony whereof I have signed my It will be seen from the foregoing that I name to this specification in the presence of

CHARLES W. CLARKE.

Witnesses: C. W. NEIL, HAZEL HILL.