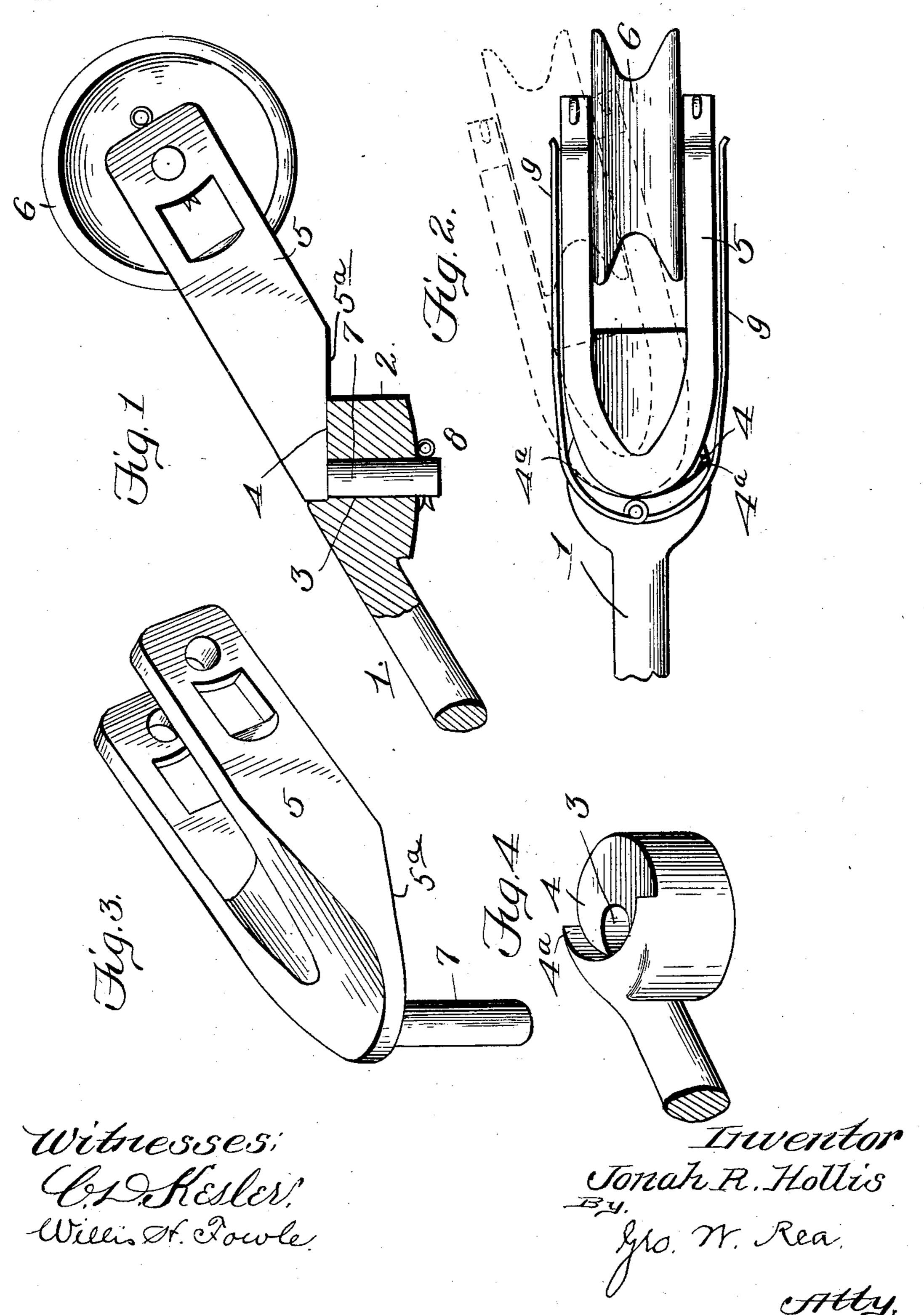
J. R. HOLLIS. TROLLEY POLE.

APPLICATION FILED NOV. 7, 1902.

NO MODEL.



HE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

United States Patent Office.

JONAH R. HOLLIS, OF BROCKTON, MASSACHUSETTS.

TROLLEY-POLE.

SPECIFICATION forming part of Letters Patent No. 747,607, dated December 22, 1903.

Application filed November 7, 1902. Serial No. 130,426. (No model.)

To all whom it may concern:

Beit known that I, Jonah R. Hollis, a citizen of the United States, residing at Brockton, Plymouth county, Massachusetts, have invented certain new and useful Improvements in Trolley-Poles, of which the following is a specification.

My invention relates to improvements in trolley-poles, and has for its object to provide a very simple, economical, and efficient trolley-pole, which will accommodate itself to curves or other irregularities or deviations of the wire from a straight line, so that the wheel will always travel in contact with the wire not only when the car is traveling along a straight line, but as well when it is on a curve.

To the end stated my invention consists in a trolley-pole constructed as hereinafter de-20 scribed, and set forth in the accompanying clauses of claim, reference being had to the accompanying drawings in explanation thereof, and in which—

Figure 1 is a view partly in elevation and partly in section. Fig. 2 is a rear elevation of my improved trolley-pole. Fig. 3 is a detail of the body of the trolley-pole; Fig. 4, a detail of the pivoted wheel-carrying section.

In the said drawing, the reference-numeral 1 indicates the body of the trolley-pole, which at its upper extremity is provided with an offstanding angularly-disposed coupling part 2, having a vertical bore or perforation 3 therethrough and formed with a substantially 35 crescent-shaped guide-seat 4.

The numeral 5 illustrates the trolley-wheel carrying the pivotal section forming a prolongation of the body 1, and in which the trolley-wheel 6 is suitably mounted. This 40 section 5 is provided with an angular base 5a, which rests upon the seat 4, formed on the coupling part 2, and from this angular base 5° a vertical stud 7 projects downwardly and fits into the bore or perforation 3 of the coup-45 ling part of the pole and is removably secured therein by any suitable device, such as a cotter pin or key 8. The edge of the base part of this removable section is rounded to conform to the contour of the segmental 50 guide-seat 4. It rests upon said guide-seat in practice and moves thereon in operation when rounding a curve. The points 4a of the | I claim is—

crescent-shaped guide-seat serve as stops to limit the lateral movement of the pivoted trolley-wheel-carrying section and prevent 55 said section assuming an inoperative position.

My improved trolley-pole as shown and described is of extremely-simple construction and economical of manufacture and at the same time is delicate in its response to any 60 curve or irregularity in the wire, permitting the trolley-wheel to follow easily any such curves or irregularities and yet limiting the lateral movement thereof, so that there shall be no abnormal lateral swinging motion of 65 the pivoted trolley-wheel-carrying section, such as would throw the trolley-wheel out of operative position or require constant watch or attention by the operator.

The normal position of the trolley-pole, as 70 is well known, is at a backward inclination or angle from the point of attachment to the car, and according to my invention the parts are so constructed that the pivotal trolley-wheelcarrying section constitutes a prolongation 75 of the body of the pole in the line of inclination thereof. In such a trolley-pole arrangement in order that the pivoted wheel-carrying section may swing horizontally upon a vertical axis the hereinbefore-described con- 80 struction and arrangement of coupling element and corresponding relative construction and arrangement of the base of the trolleywheel-carrying section and the stud projecting therefrom are provided. The arrange-85 ment described affords a very simple and satisfactory construction of trolley-pole in which the trolley-wheel-carrying section is adapted to swing horizontally upon a vertical axis, facilitating its movement, so that it will go readily follow any curve or irregularity in the trolley-wire.

I provide a spring 9, suitably and fixedly secured to the coupling part, the arms of which engage the trolley-wheel-carrying piv- 95 otal section and which tends to maintain said section normally in a direct line with the body of the trolley-pole as a prolongation thereof and assists in returning it to that position when the trolley-wheel leaves a curved 100 portion of the wire to enter upon a straight stretch thereof.

Having thus described my invention, what I claim is—

1. The herein-described trolley-pole, consisting of a body portion provided at its extremity with an angularly-disposed offstanding coupling part having a vertical bore or 5 perforation, and a substantially segmentalshaped guide-seat, and a pivoted trolley-wheelcarrying section having a trolley-wheel suitably mounted therein and provided with a vertical stud or journal arranged in the bore 10 or perforation of the coupling part, substan-

tially as described.

2. The herein-described trolley-pole, consisting of a body portion provided at its extremity with an angularly-disposed offstand-15 ing coupling part having a vertical bore or perforation and a substantially segmentalshaped guide-seat having stops, and a pivoted trolley-wheel-carrying section constituting a prolongation of the body portion of the 20 trolley-pole and having a vertical stud or journal arranged in the vertical bore or perforation of the coupling part, and having a

base which seats upon the segmental guideseat, substantially as described.

3. The herein-described trolley-pole, con- 25 sisting of a body portion provided at its extremity with an angularly-disposed offstanding coupling part having a vertical bore or perforation, a substantially segmental-shaped guide-seat having stops, a pivoted trolley- 30 wheel-carrying section constituting a prolongation of the body portion of the trolley-pole and having a vertical stud or journal arranged in the vertical bore or perforation of the coupling part, and a spring rigidly secured 35 to the coupling part and having arms that engage the trolley-wheel-carrying section.

In testimony whereof I have hereunto set my hand in presence of two subscribing wit-

nesses.

JONAH R. HOLLIS.

Witnesses:

ALBERT G. BROWN, JOHN A. SULLIVAN.