

(No Model.)

R. PRENTICE.

SUSPENSION WHEEL FOR WIRE CABLE TRAMWAYS.

No. 364,669.

Patented June 14, 1887.

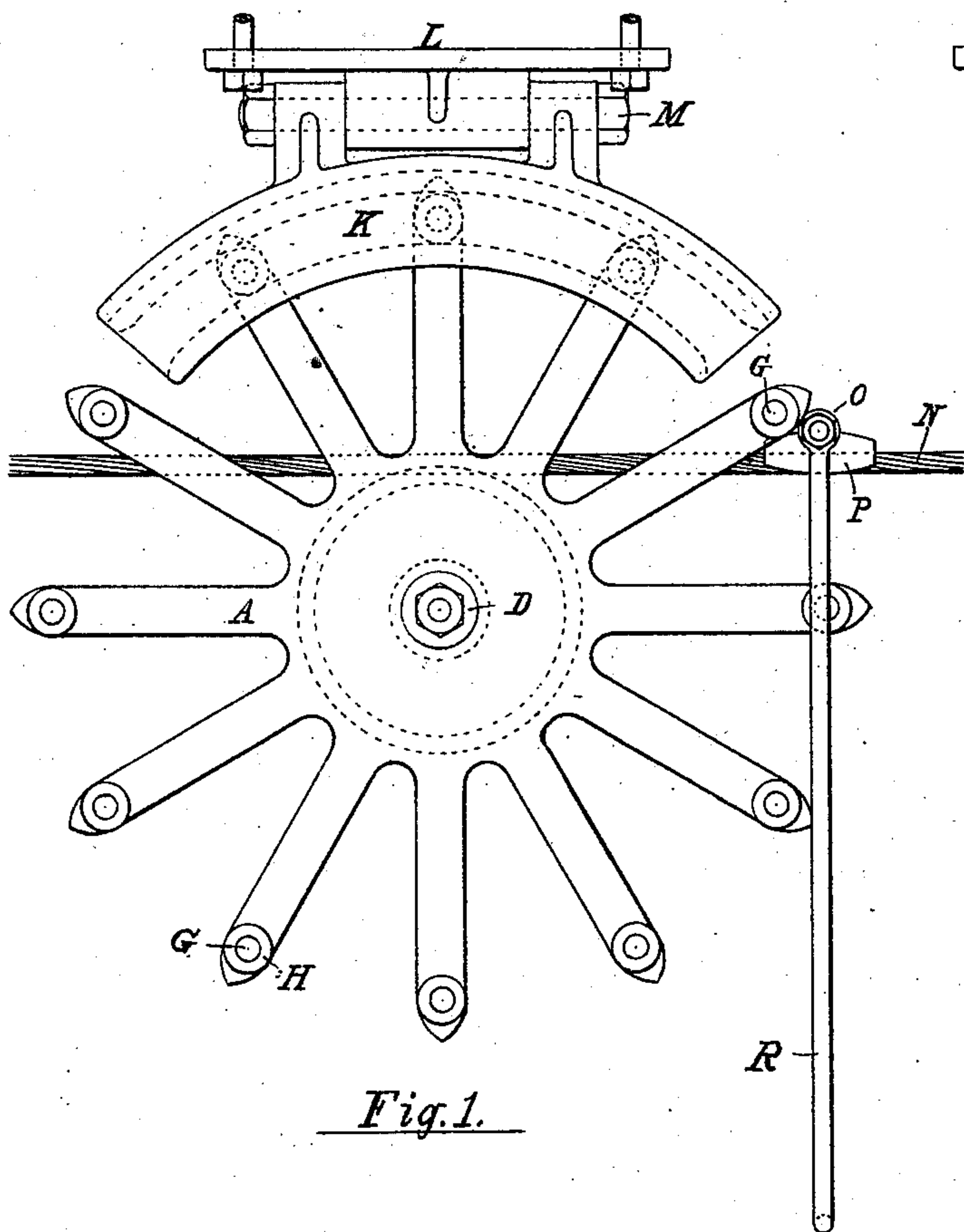


Fig. 1.

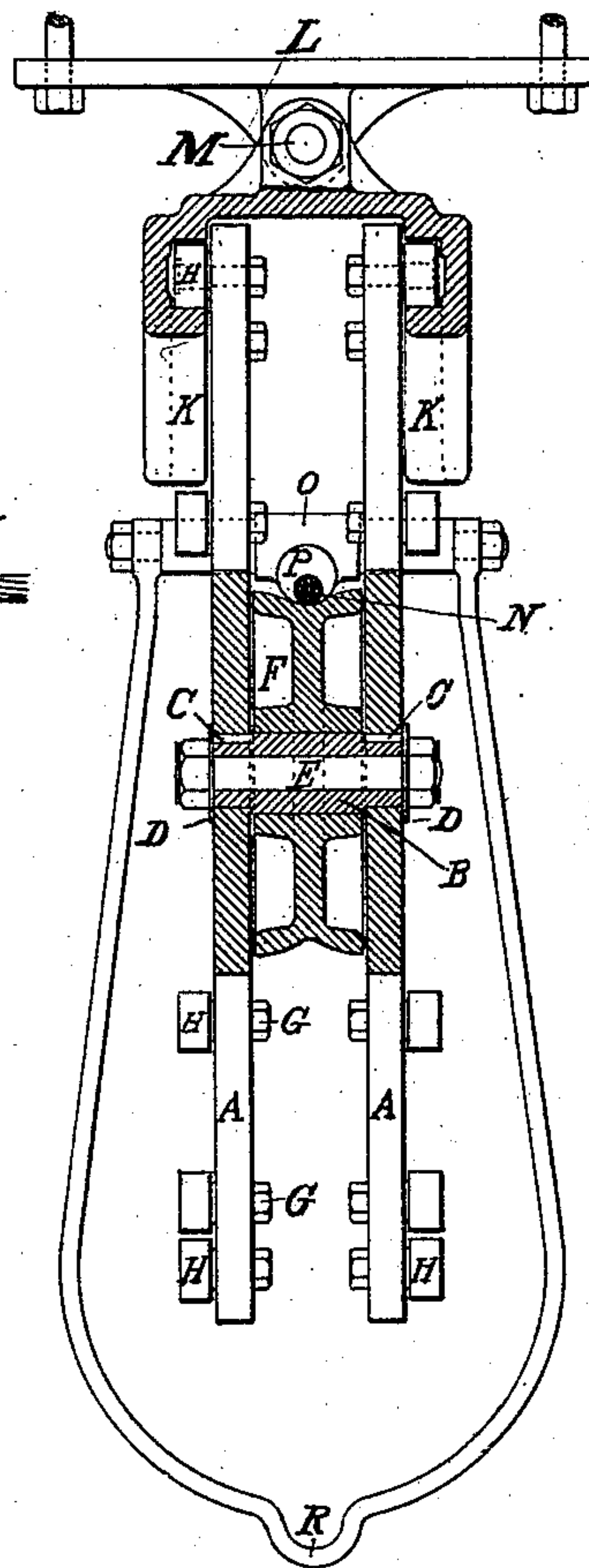


Fig. 2.

Witnesses:

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SUSPENSION-WHEEL FOR WIRE-CABLE TRAMWAYS.

SPECIFICATION forming part of Letters Patent No. 364,669, dated June 14, 1887.

Application filed October 14, 1886. Serial No. 216,193. (No model.)

To all whom it may concern:

Be it known that I, ROBERT PRENTICE, of Portage, Columbia county, in the State of Wisconsin, have invented a new and Improved
5 Suspension-Wheel for Wire-Cable Tramways, of which the following is a specification.

The object of my invention is to provide a suspension-wheel upon which a wire or other cable may be driven, and to which cable may
10 be attached carriers, either permanent or detachable, and to which the load may be hung and transported above the ground, passing the suspension-wheels without displacing the cable or impeding its motion.

15 The invention consists of a double wheel having a common center, upon which turns a loose pulley carrying the cable between the two sides or arms of the double wheel, the arms of which have rolls at their outer ends
20 running in a segmental track suspended from a suitable frame, so constructed as to permit the load to pass.

The invention also consists in parts and various combinations of the same, as will be fully
25 set forth hereinafter.

In the accompanying drawings, Figure 1 is a side elevation of the suspension-wheel, and Fig. 2 is a section on the axis of the wheel at right angles to the cable.

30 The wheel consists of two disks or sides, A A, forced on the ends of a sleeve, B, and secured from turning thereon by keys C C, held in position by washers D D and nuts and bolt E. Between the disks A A is a loose
35 pulley, F, turning on the sleeve B. The outer ends of the arms A', which may be of any suitable number, are provided with studs G G, projecting outwardly, upon which turn rolls
40 H H, running in the segmental track K, hung by the bolt M to the pivot-plate L, which is bolted to a suitable frame of such construction as will permit the load to pass, and also to be readily taken apart for moving from place to place in the field of operation.

45 The operation is as follows: A wire or other cable, N, driven by any motive power, is supported upon as many wheels A A as the case may require. The cable, being endless or coupled and run continuously in either direc-
50 tion, has attached carriers O, with gripping device P, and a clevis or suspender, R, to which the load may be hung by hook or other device adapted to the kind of material transported—as buckets of coal, ore, earth, stone,
55 ice, bales of goods, logs, &c. The cable, being

run at a slow rate of motion, permits the hooks, &c., and their accompanying load to be attached and started without stopping it.

The carrier O is of such a length as to extend outside the arms and rolls H H and admit of the clevis passing outside without touching. When the round part of the carrier comes in contact with the arms of the wheel A A, it passes between them radially, and the cable and load bearing on the pulley F an upward
60 pressure comes on the under side of the arms at the side from which the cable is running, the wheel A turns, and the rolls H pass over the segmental track till the carrier passes the center of wheel A, then presses downwardly on
65 the top side of arms and passes out between the arms, and the wheel stops, the central pulley, F, running and carrying the cable.

The carriers may be permanently attached, or detachable automatically or otherwise.

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

1. A suspension-wheel provided with the rolls and loose pulley, in combination with
80 the segmental track and pivoted track-support, substantially as herein shown and described.

2. The combination, with a suspension-wheel, of a segmental supporting track, running cable, and carrier, substantially as herein
85 shown and described.

3. The combination of a pivoted support, segmental track, and suspended double wheel and pulley for the support of a running cable,
90 and carriers, substantially as herein shown and described.

4. The combination of a double wheel, A A, sleeve B, rolls H H, loose pulley F, segmental track K K, and pivoted track-support L, substantially as herein shown and described.

5. The combination of a pivoted segmental track, K K, double wheel A A, rolls H H, pulley F, carrier O, and clevis R, substantially
100 as herein shown and described.

6. The combination, with a pivoted track-support, L, of pivoted segmental double track K K, double suspension-wheel A A, studs G, rolls H, carrier O, and clevis R, all for the purpose and in the manner substantially as
105 herein shown and described.

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