W. W. WYTHE

Mechanism for Imparting Motion to Speed-Recorders

No. 203,865. Patented May 21, 1878.

Fig. 1.

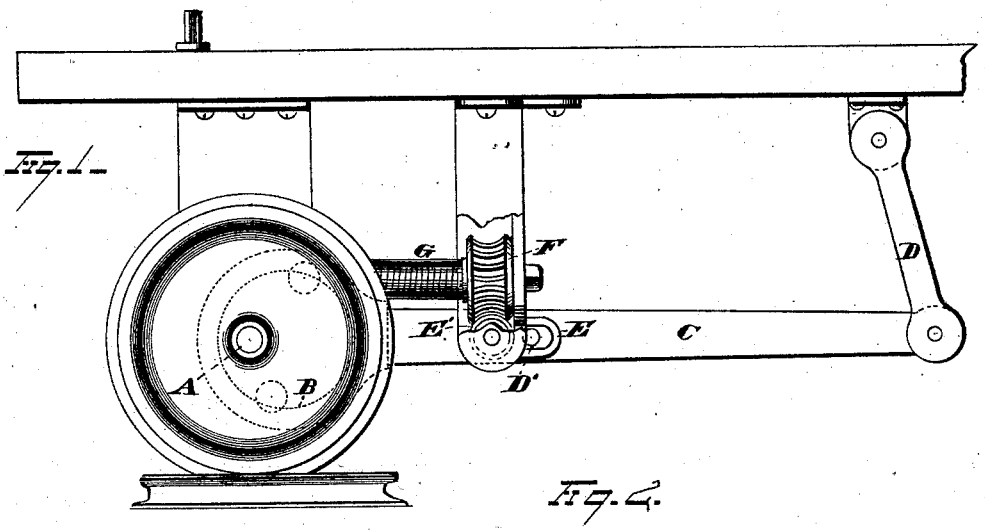
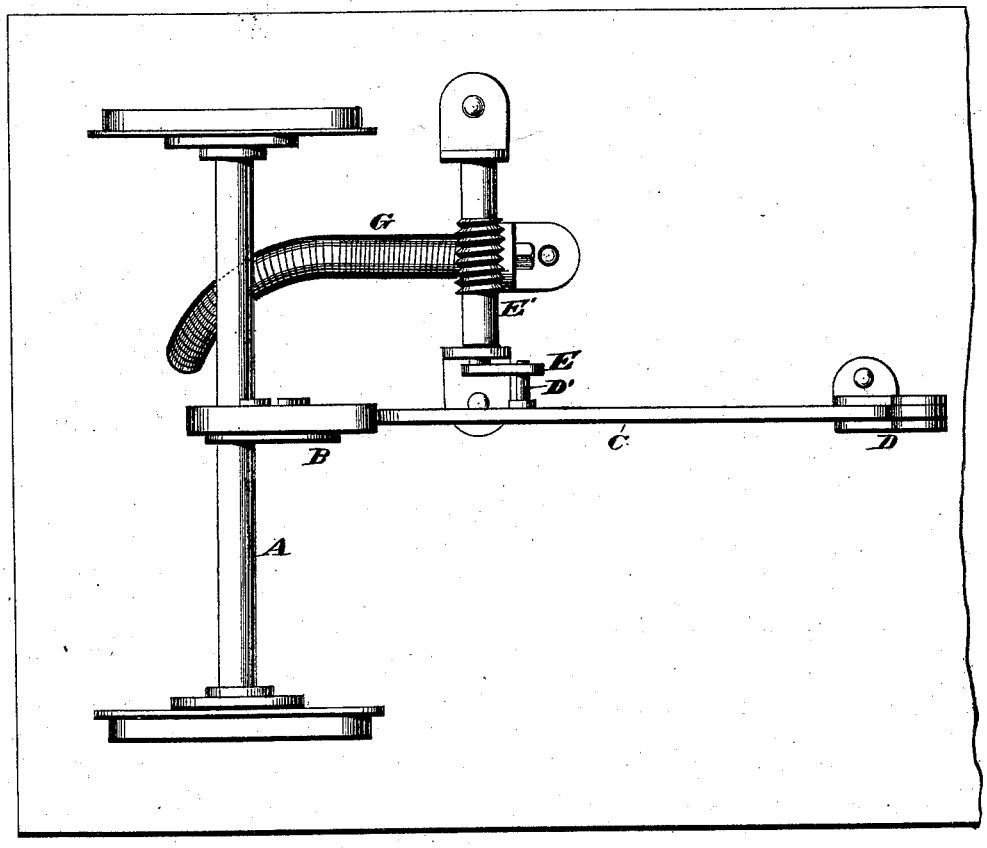


Fig. 2.



WITNESSES

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WILLIAM W. WYTHE, OF ERIE, PENNSYLVANIA.

IMPROVEMENT IN MECHANISMS FOR IMPARTING MOTION TO SPEED-RECORDERS.

Specification forming part of Letters Patent No. **203,865**, dated May 21, 1878; application filed September 28, 1877.

To all whom it may concern:

Be it known that I, WILLIAM W. WYTHE, of Erie, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Speed-Recorders, &c.; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to a speed-recorder, &c., for railroad-trains; and is designed as an improvement upon the machines patented to me July 28, 1874, No. 153,470, and February 8, 1876, No. 173,251.

My invention consists in an improved mechanism for imparting motion of the car to the chart.

Referring to the drawings, Figure 1 is a side elevation, and Fig. 2 a bottom view, of a car embodying my invention.

A is the car-axle, to which is attached the eccentric B, the revolution of which imparts a crank-motion to the bar C, which is attached at its opposite end to the swinging support D, attached to the floor of the car or truck. At any suitable place along the body of the bar the spud or projection D′ is attached, which engages in the slotted crank E of the screw-shaft E′. The screw-shaft E′ is suitably supported in a journal or bracket attached to the car. The screw-shaft, by its revolution, operates the worm-gear F. As the worm-gear F revolves its motion is transmitted, by any suitable flexible shafting, G, to a suitable barrel-recorder upon which the record-paper is fixed.

By the construction just specified I am enabled to obtain a sufficiently slow movement of the recording apparatus from the car-axle without the employment of any cumbrous casting or intricate machinery, inasmuch as the parts described need not be larger than required for strength in ordinary wear, which, for the duty required, is not great.

Having fully described my invention, I claim as new and desire to secure by Letters Patent—

1. In combination with the axle of a car, the eccentric B, bar C, swinging support D, and spud or projection D′, or its equivalent, substantially as and for the purpose described.

2. In combination with the bar C and spud or projection D′, or its equivalent, the screw-shaft E′, worm-gear F, and flexible shafting G, substantially as and for the purposes described.

3. The combination of eccentric B, bar C, swinging support D, spud D′, or its equivalent, and slotted crank E, substantially as and for the purposes described.

4. The combination, with the car-axle, of eccentric B, bar C, swinging support D, spud D′, or its equivalent, screw-shaft E′, worm-gear F, and flexible shaft G, whereby motion may be transmitted to a suitable recording-barrel of a speed-recorder, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM W. WYTHE.

Witnesses:

A. L. DUNBAR,

JAS. G. TOWNSEND.