(No Model.)

C. S. FARRER.

AUTOMATIC DEVICE FOR DUMPING COAL CARS.

No. 398,598. Patented Feb. 26, 1889.

Fig. 1.

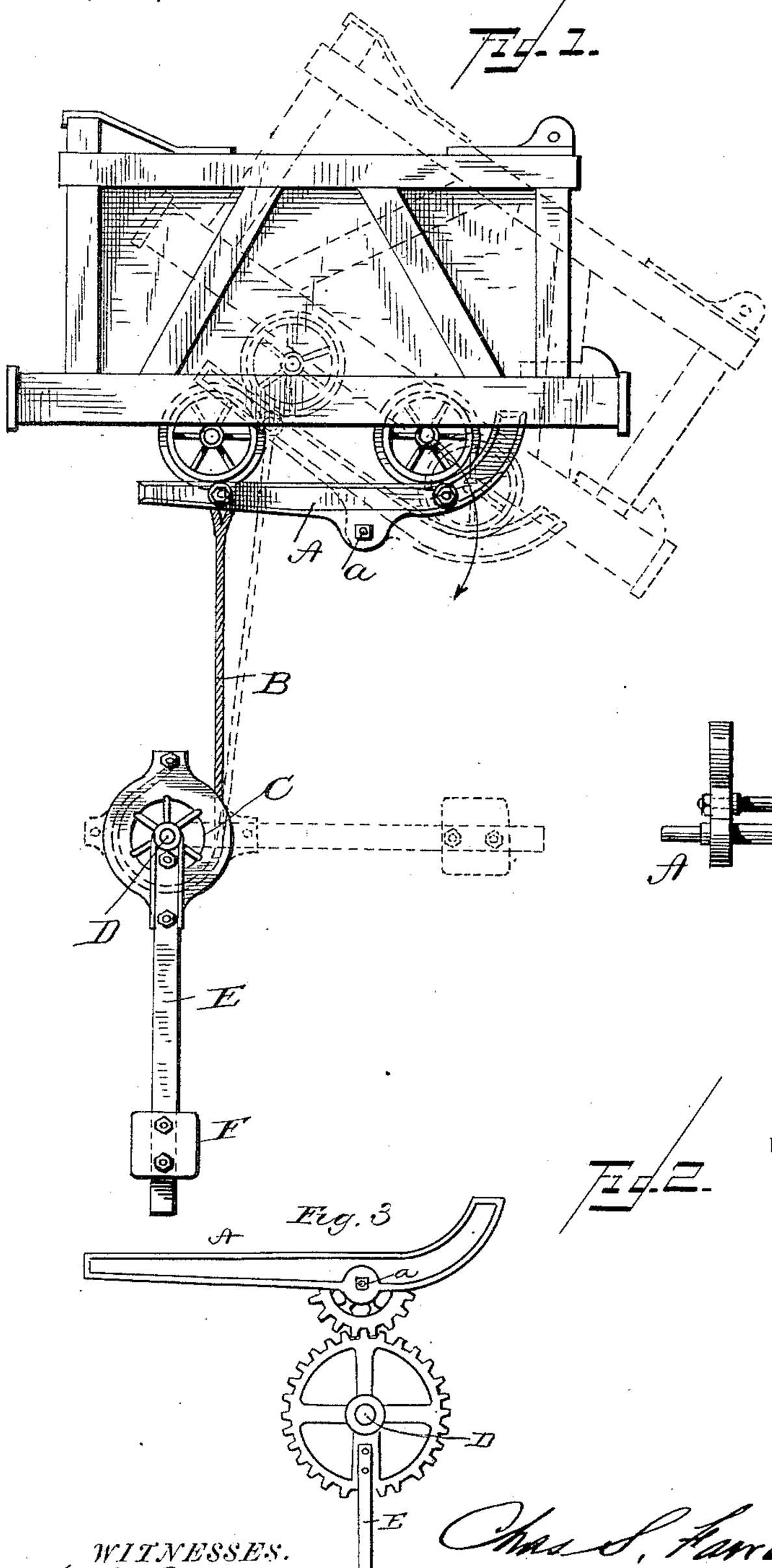
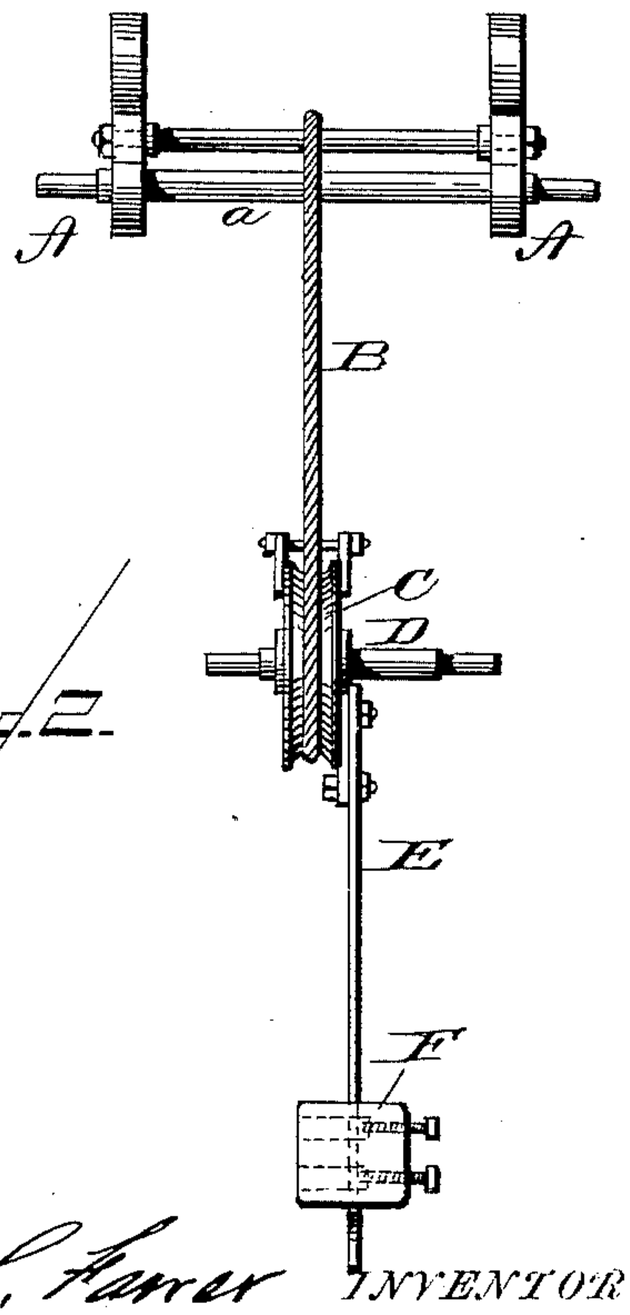


Fig. 3

Fig. 2.



WITNESSES.

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CHARLES S. FARRER, OF DUNMORE, PENNSYLVANIA.

AUTOMATIC DEVICE FOR DUMPING COAL-CARS.

SPECIFICATION forming part of Letters Patent No. 398,598, dated February 26, 1889.

Application filed November 19, 1888. Serial No. 291,183. (No model.)

To all whom it may concern:

Be it known that I, CHARLES S. FARRER, a citizen of the United States of America, residing at Dunmore, in the county of Lackawanna and State of Pennsylvania, have invented certain new and useful Improvements in Automatic Devices for Dumping Coal-Cars, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to improvements in a device for dumping coal-cars; and the object of my improvement is to provide an automatic device that will effectually dump coal-cars, thereby disposing of the labor of extra men, which is required for this purpose. I attain this object by a combination and arrangement of parts which will be fully described in this specification and illustrated in the accompanying drawings, in which—

Figure 1 is a side view of my device attached to tip and in a position for use. Fig. 2 is a front view of same detached from the tip. Fig. 3 is a modification of invention.

The dotted lines designate the position the car, the tip, and the lever assume in dumping.

A represents the tip upon which the car is run to be dumped into the chute. Said tip is constructed and arranged in the ordinary manner, and is provided with the rope B, which is secured to the rear end of same. This rope extends downward and passes about three-fourths of the way around the sheave C, and is securely fastened thereto. The sheave C is located upon the axle D, which has suitable bearings. To said sheave there is rigidly attached the pendulum or lever E, to the lower end of which is bolted the weight F.

Such being the combination and arrangement of my device, it is evident that when the loaded car is run upon the tip A (which revolves upon the axis *a*) said tip, the car, the pendulum, and the weight will at once assume the position indicated by the dotted lines, and the coal is at once dumped into the chute. As soon as the car is relieved of the weight of the coal the tip and the pendulum again assume their normal position, and the car is ready to be moved off.

As it is evident that my invention is very practical and most effectual in operation, it is useless to further enlarge upon its merits.

I do not wish to limit myself to the construction shown in the drawings, as it is apparent that the same principle may be used in an entirely different construction. For example, a cog-gear with lever bolted across it and geared to center of tip will produce the same result upon the same principle, but differently constructed, Fig. 3.

What I claim is—

In a device for dumping coal-cars, the combination of the tip A, the rope B, having the upper end secured to the rear part of said tip and its lower end extending downward and around the sheave C, to which it is attached, the sheave C, the axle D, having suitable bearings, the lever E, secured to said sheave, and the weight bolted to said lever, substantially as described and shown.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES S. FARRER.

Witnesses:
JOHN M. MAY,
ALBERT WAGNER.