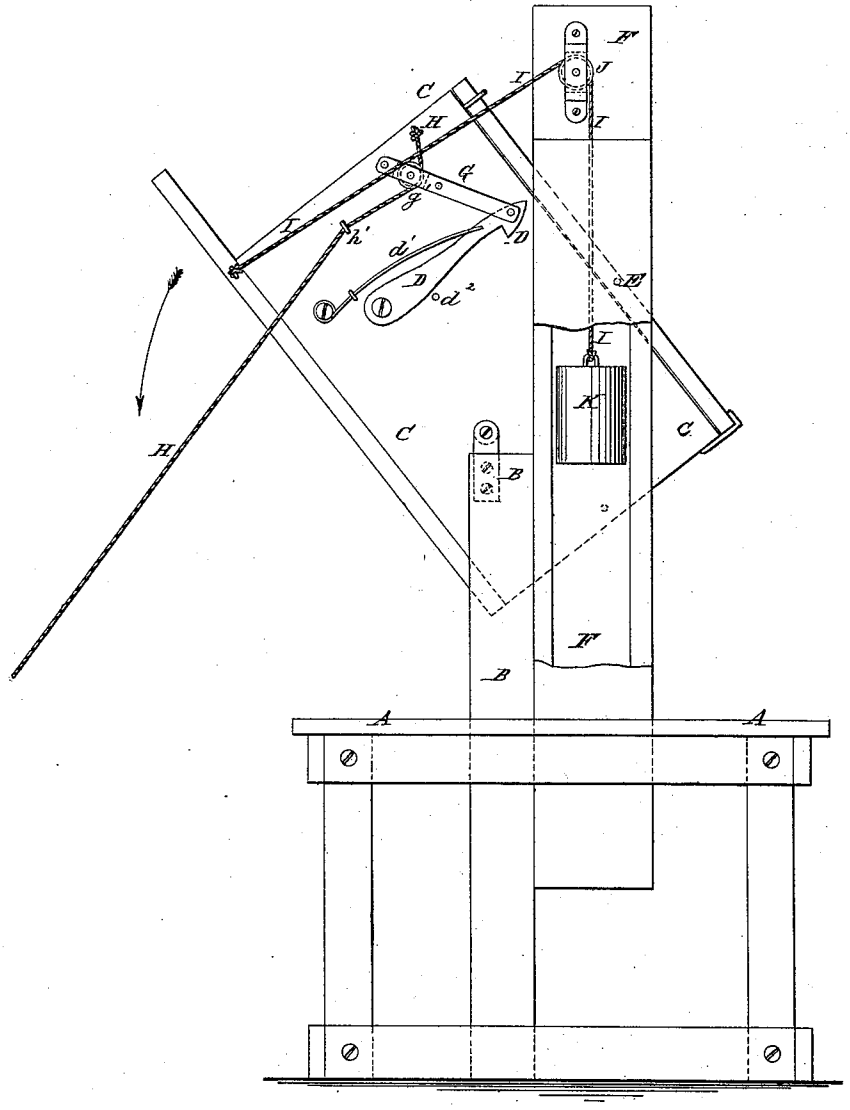
W. C. HAMNER.

DEVICE FOR SUPPLYING LOCOMOTIVE-TENDERS WITH FUEL.

No. 193,703. Patented July 31, 1877.



WITNESSES:

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UNITED STATES PATENT OFFICE.

WILL C. HAMNER, OF WATER VALLEY, MISSISSIPPI.

IMPROVEMENT IN DEVICES FOR SUPPLYING LOCOMOTIVE-TENDERS WITH FUEL.

Specification forming part of Letters Patent No. **193,703**, dated July 31, 1877; application filed June 18, 1877.

To all whom it may concern:

Be it known that I, WILL CLIFTON HAMNER, of Water Valley, in the county of Yalabusha and State of Mississippi, have invented a new and useful Improvement in Device for Supplying Locomotive-Tenders with Fuel, of which the following is a specification:

The figure is a side view of my improved device, part being broken away to show the construction.

The object of this invention is to furnish an improved device for supplying locomotive-tenders with coal or wood, which shall be so constructed as to discharge the required supply into the tender at once, so as to avoid the delay which is unavoidable when the tenders are supplied in the usual way.

The invention consists in the employment of a pivoted or tilting box for supplying locomotive-tenders with fuel; in the combination of the spring-latch, the catch-pin, the pivoted bar, and the rope with the pivoted or tilting box and the post; and in the combination of the rope and the balancing-weight with the pivoted or tilting box and the post, as hereinafter fully described.

A represents the platform at the side of a railroad-track at a coal or wood yard. To the platform A are attached two posts, B, to the upper ends of which is pivoted a box, C. The box C is made of such a size as to contain the quantity of coal or wood to be supplied to a tender at a time.

To the side of the box C is pivoted a hook-latch, D, to catch upon a pin, E, attached to a post, F, secured to the platform A. The latch D is held forward by a spring, d^1, attached to the box C, and its forward movement is limited by a stop-pin, d^2, also attached to said box, so that the latch D will always be in position to catch upon the pin E automatically when the box C is swung back into place after being tilted to discharge its contents.

To the forward end of the latch D is pivoted the lower end of a bar, G, the upper end of which is slotted to receive the cord H, upon which rests a pulley, g', pivoted in the upper part of said slot.

The end of the cord H is attached to the side of the box C near its rear upper corner, whence it passes down to and around the pulley g', up and through a guide-staple, h', or around a guide-pulley attached to the upper forward part of the box C, so that the cord H, when pulled upon, may raise the latch D, and then draw the box C forward to discharge its contents into the tender.

The posts B are made of such a height that the box C, when tilted, will discharge its contents into the tender.

To the upper forward corner of the box C is attached the end of a rope, I, which passes over a guide-pulley, J, attached to the upper part of the post F, and has a weight, K, attached to its free end. The weight K should come so near balancing the box C that a slight upward push upon the upper end of the said box C, after its contents have been discharged, will cause it to return to an erect position, when it will be caught and held by the latch D.

The rear side of the box C may be made detachable, and secured in place by hooks, hook-bolts, buttons, or other convenient fastenings, so that it may be detached when the device is to be used for wood. When the device is to be used exclusively for coal the box C should be made of sheet-iron.

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

1. The combination of the spring-latch D d^1, the catch-pin E, the pivoted bar G, and the rope H with the pivoted or tilting box C and the post F, substantially as herein shown and described.

2. The combination of the rope I and the balancing-weight K with the pivoted or tilting box C and the post F, substantially as herein shown and described.

WILL C. HAMNER.

Witnesses:
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