

R. B. ROBBINS.

Wood and Coal Dumper for Railways.

No. 109,346.

Patented Nov. 15, 1870.

Fig. 1.

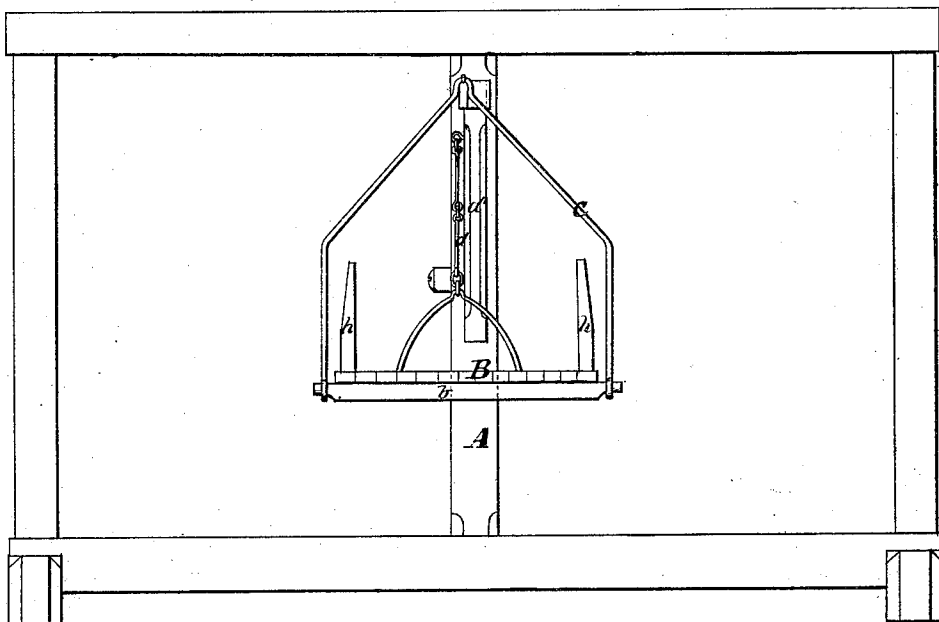
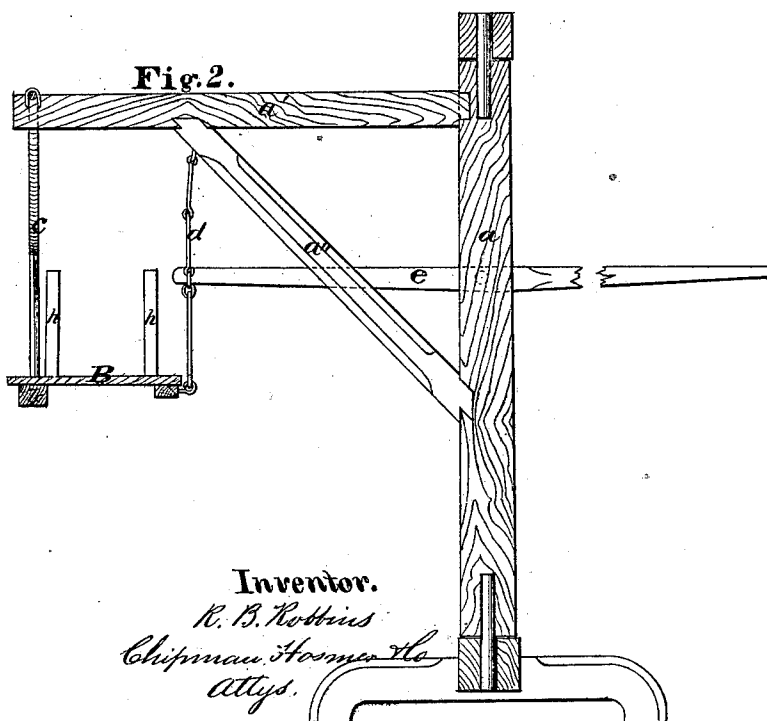


Fig. 2.



Witnesses.

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RICHARD B. ROBBINS, OF ADRIAN, MICHIGAN.

Letters Patent No. 109,346, dated November 15, 1870.

IMPROVEMENT IN WOOD AND COAL-DUMPERS FOR RAILWAYS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, RICHARD B. ROBBINS, of Adrian, in the county of Lenawee and State of Michigan, have invented a new and valuable Improvement in Wood and Coal-Dumpers; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a front view of my invention.

Figure 2 is a central vertical section thereof.

My invention relates to means for loading the tender of a railroad-engine with wood or coal, and consists mainly in the novel construction and arrangement of devices intended to serve as an efficient apparatus for the purpose named.

The letter A of the drawing designates the crane, consisting of an upright, *a*, arm *a'*, and brace *a''*. The upright may be pivoted to a rafter and floor-beam of the wood-shed, or to the transverse beam of a framework erected for the purpose.

The letter B designates the platform upon which the wood or coal is placed. This platform is designed to hold as much as the tender will require. The front of the platform is supported by the transverse beam *b*, the ends of which are pivoted to the ends of the bent bar *c*, whereby it is suspended from the arm *a'* of the crane. The rear of the platform is suspended from

the upper part of the brace *a''* by means of the chain *d*, at or near the center of which is secured the end of the operating lever *e*, which is pivoted to the upright *a*.

When the platform is intended to hold wood chiefly, the stakes *h h* are employed to prevent the load from spreading over the sides. For coal I design to board up the back and sides of the platform.

By the use of this loading arrangement a railway train need never be delayed for fuel. The wood or coal should always be loaded on the platform before the train is due, and turned under the wood-shed so that it may be kept dry, and out of the way of the locomotive. When the train arrives opposite, the platform, with its load, is swung out over the tender, and by means of the lever *e* the wood or coal is dumped therein.

What I claim as my invention, and desire to secure by Letters Patent, is—

The dumping arrangement herein described for loading the tenders of locomotives, consisting of a pivoted crane, A, suspended pivoted platform B, chain *d*, and lever *e*, all constructed and arranged to operate as specified.

In testimony that I claim the above, I have hereunto subscribed my name in the presence of two witnesses.

R. B. ROBBINS.

Witnesses:

J. H. WOOD,
H. HOLLENBANK.