

J. W. HIATT.
DUMPING-BOX.

No. 177,507.

Patented May 16, 1876.

Fig: 1.

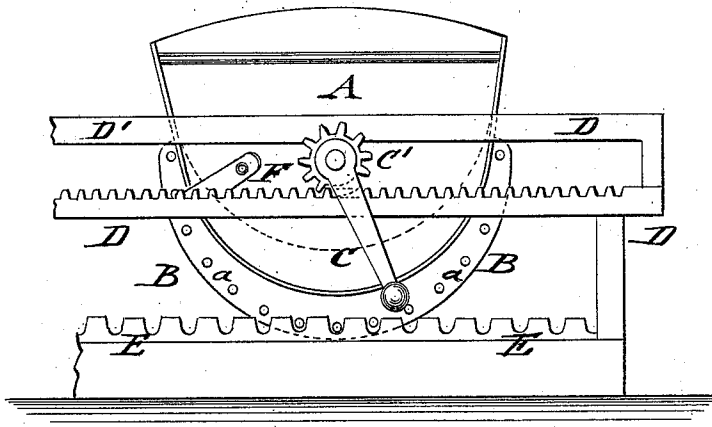
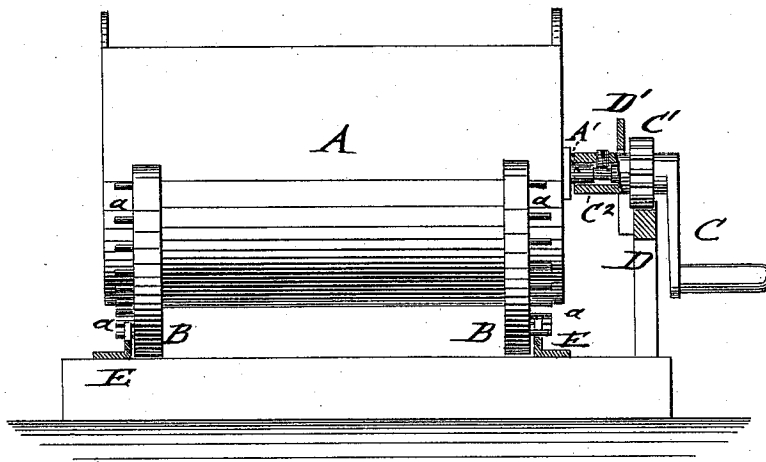


Fig: 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOEL W. HIATT, OF IOWA FALLS, IOWA.

IMPROVEMENT IN DUMPING-BOXES.

Specification forming part of Letters Patent No. **177,507**, dated May 16, 1876; application filed April 10, 1876.

To all whom it may concern:

Be it known that I, JOEL W. HIATT, of Iowa Falls, in the county of Hardin and State of Iowa, have invented a new and Improved Dumping-Box, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a side elevation, and Fig. 2 an end view, of my improved dumping-box for cars, platform-scales, and other purposes.

Similar letters of reference indicate corresponding parts.

The invention relates to an improvement in the class of dumping-boxes which are tilted by a rack and pinion, or equivalent devices, suitably connected with the box.

The invention relates to the construction and arrangement hereinafter described and claimed.

In the drawing, A represents a coal or other dumping-box, of suitable shape and material, which is attached to supporting-rockers B, made of sections of a circle, of wood, metal, or other suitable material. The box A is propelled, moved, or rocked from its common horizontal position to a dumping position, for discharging the coal, by a hand lever or crank, C, that is rigidly attached to a cog-wheel, C¹, of a loose hub, C², that is connected, by an interior projecting pin, to the grooved shaft A' of the dumping-box A. The cog-wheel C¹ of the crank C gears with a straight or circular

rack, D, according to the location of the cog-wheel and journal at the end of box. A corresponding guide-bar, D', above the hub secures the steady motion, and defines also the extent of motion, of the box. The rockers B gear, by side pins *a* or equivalent means, with rack guide-bars E of the platform of the car, scales, or other device in connection with which the dumping-box is used.

The platform may be mounted on wheels for greater convenience in loading and delivering. The box may also be arranged to dump to either side by extending the rack and top guide and rocker guide-bar to corresponding length at the opposite side of the box-shaft. Suitable stop-springs F, that lock on pins of the box, retain the same in horizontal position for filling, and have to be released for dumping the charge of coal or other material.

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

The dumping-box A, having shaft A', and mounted on rockers B, having pins *a*, the parallel rack-bars E and D, the crank C, pinion C¹, and hub C², all combined as shown and described, to operate as specified.

JOEL W. HIATT.

Witnesses:

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