

O. M. AVERY.
Dumping Cars.

No. 138,361.

Patented April 29, 1873.

Fig. 1.

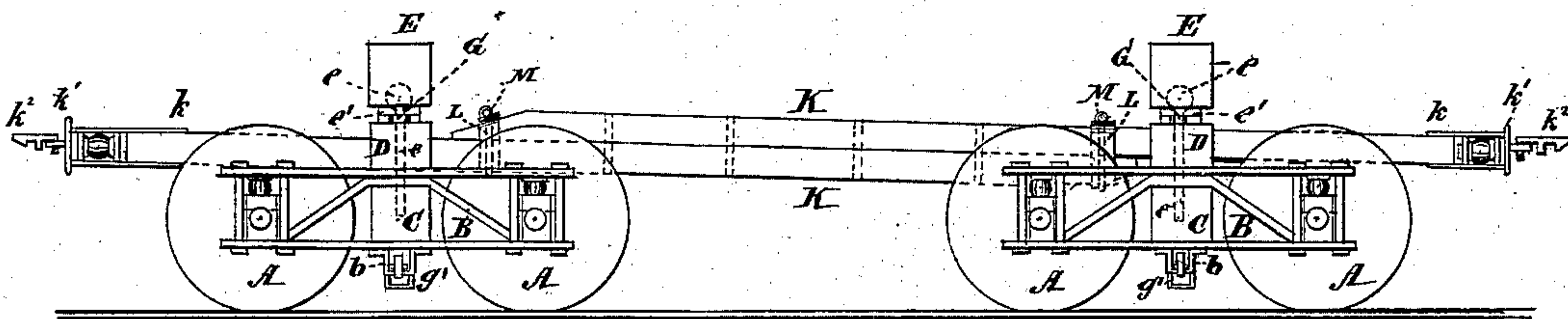
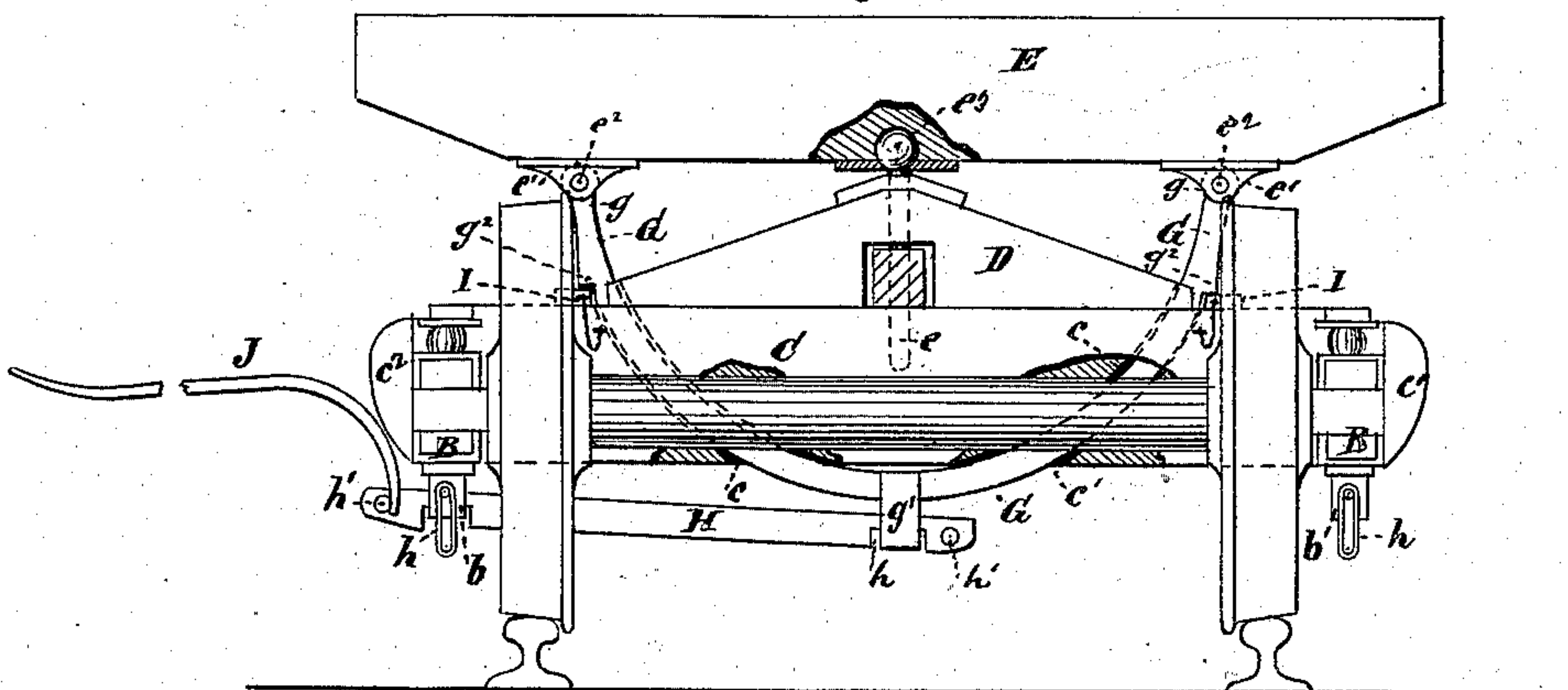


Fig. 2.



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UNITED STATES PATENT OFFICE.

OWEN M. AVERY, OF PENSACOLA, FLORIDA.

IMPROVEMENT IN DUMPING-CARS.

Specification forming part of Letters Patent No. **138,361**, dated April 29, 1873; application filed March 17, 1873.

To all whom it may concern:

Be it known that I, OWEN M. AVERY, of Pensacola, in the county of Escambia, and State of Florida, have invented a new and Improved Car-Dumper; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a side elevation. Fig. 2 is an end view with parts broken out, and Figs. 3, 4, and 5 are detail views of the coupling.

The invention consists in dumping a car on the side by means of rocking-beams pivoted to the middle of a beveled bolster. It also consists in a peculiarly constructed and operated shifter by which the rock-beam is made to perform its intended function. It also consists in a locking device applied at each end of the shifter. It also consists in a double-notched lock-bar applied to the middle of shifter. It also consists of the means, hereinafter described, for throwing the line of gravity from the median line of truck and to that side of car on which the load is to be dumped. These features of invention will all be first described in connection with whatever is necessary to their full understanding, and then pointed out more distinctly in the claims.

In the drawing, A represents the wheels of a dumping-car truck journaled in the side-plates B B, which also receive the intermediate transom-beam C. D is a stationary bolster beveled downwardly each way from the center, and E is a rocker-beam. Through both of these, as well as through the bumper F, passes the king-bolt *e* having the rounded head *e*³. This allows the rocker-beam to turn vertically or horizontally. G is a semicircular piece or shifter, whose ends *g g* pass up through apertures *c c'* in the transom-beam C. On the lower side, or about the middle of the semicircle, is a loop, *g*¹, by which the piece G may be moved. Each end of the piece G is perforated, fits between a pair of perforated lugs, *e*¹ *e*¹ and receives a pivot-pin, *e*². By this arrangement, as the shifter G is moved by a bar, H, in one direction, the opposite end of rock-

er-beam is brought down, and the load then dumped on that side. The shifter G has near each end a shoulder or catch, *g*², which rests upon the latch I, that may be either made to slide in and out or made removable, and attached by a cord to transom-beam, C. This latch is slipped out just before the car is to be dumped. The bar H is provided with two rectangular notches, *h h*, one of which fits over the loop *g*¹ of shifter, and the other over a loop, *b*, attached to the under side of plates B B. This produces a second middle or supplementary locking device, by which the shifter is made to hold the bolster rigidly in a horizontal position. In each end of bar H is a cross-pin, *h*¹, which prevents the said end from passing through loop *g*¹, and the bar from falling under the truck. The transom-beam C is made to project and given an oval shape *c*² so that a cam-shaped lever, J, with bifurcated end may be applied over the cross-pin of bar H and against the oval *c*². This enables the center of gravity of the load to be thrown out of the middle of car-truck, and over to that side on which the dumping is intended to take place. K K represents the connecting-bars, each perforated at several points and adjustable on the other through the bolsters. One end of each is beveled on the outer edge, and held by sliding bands L L and pins or bolts M M to the body of the other, while each outer end is provided with a bumper, *k*, link *k*¹ and latch *k*², of the novel construction shown in figures of the drawing. This forms a very simple and convenient coupling device.

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

1. The stationary bolster D beveled downwardly from middle to each end, and the rocker E pivoted to the middle of said bolster, combined and arranged in connection with a car-dumper, as and for the purpose described.

2. The combination with a stationary rocker-beam, D, and a movable beam, E, pivoted together over the middle of the curved shifter G, arranged and applied as and for the purpose described.

3. The latch I, combined with the shoulders g^2 g^2 on shifter G to lock the latter, in the manner described.

4. The bar H having rectangular notches h h , combined with loop g of shifter and loop b of plate B, as and for the purpose set forth.

5. The combination with bar H having

cross-pins at the ends of the cam-shaped lever J, and beam having oval shaped end c^2 , as and for the purpose described.

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