(No Model.)

S. M. KEIBLER.

DUMPER.

No. 291,355. Patented Jan. 1, 1884.

Fig. 1.

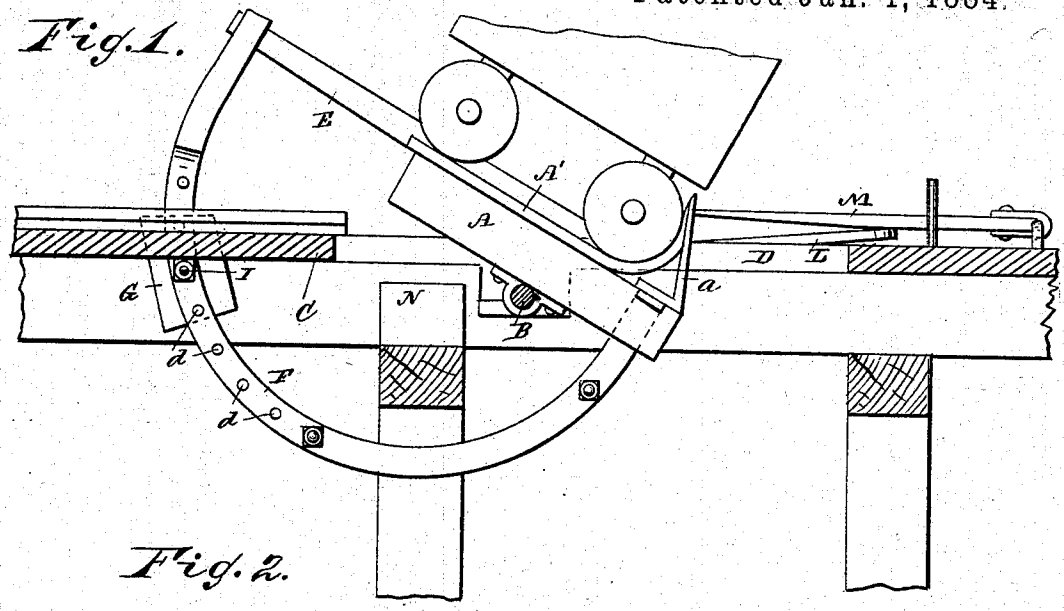


Fig. 2.

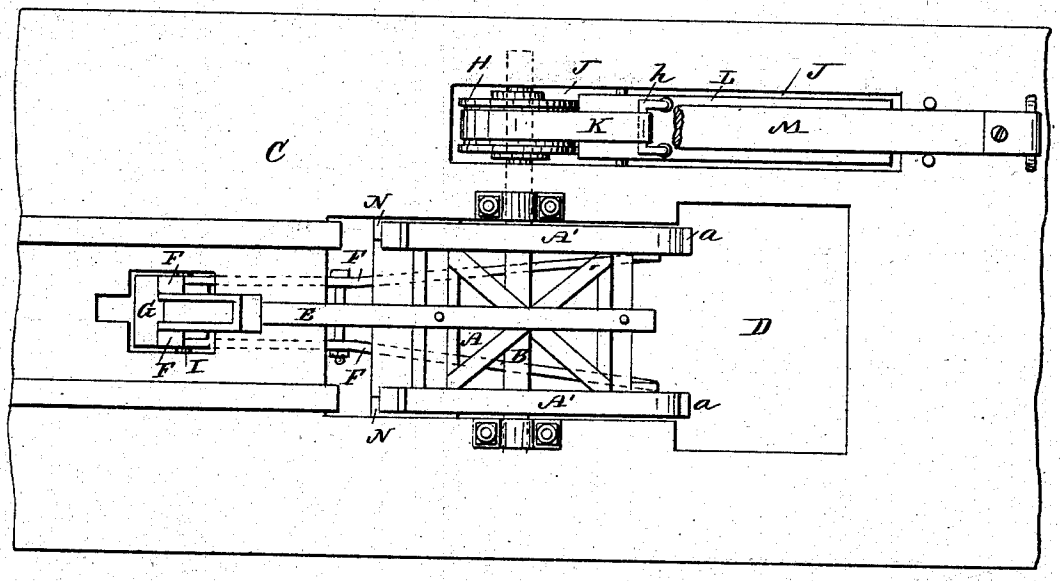
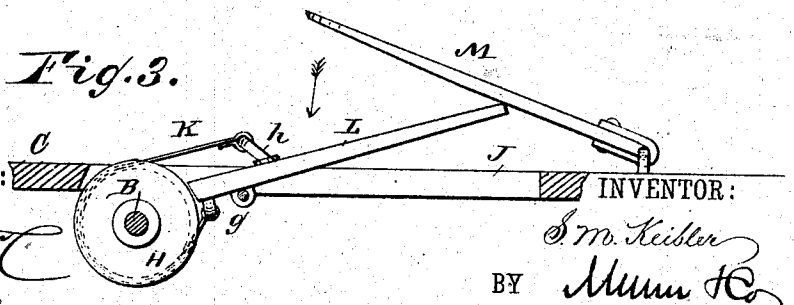


Fig. 3.



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UNITED STATES PATENT OFFICE.

SAMUEL M. KEIBLER, OF SALTSBURG, PENNSYLVANIA.

DUMPER.

SPECIFICATION forming part of Letters Patent No. 291,355, dated January 1, 1884.

Application filed October 30, 1883. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL M. KEIBLER, of Saltsburg, in the county of Indiana and State of Pennsylvania, have invented a new and Improved Dumper, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved dumper for dumping coal-cars, which dumper can be checked or released, as desired.

The invention consists in a platform mounted rigidly on a journaled shaft, on one end of which a brake-pulley is rigidly mounted, around which pulley a brake-band is passed, which has its ends secured to a pivoted lever, on the end of which another lever rests. To the bottom of the swinging platform two curved bars or plates are secured, between which a weight is held adjustably, the said curved bars or plates being arranged eccentrically in relation to the shaft.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a longitudinal sectional elevation of my improved dumper. Fig. 2 is a plan view of the same, parts being shown in section. Fig. 3 is a side view of the brake.

A track-platform, A, is rigidly mounted on a horizontal transverse shaft, B, journaled in frame-work C, so that the tracks A′ on the platform A will be flush with the tracks C′ on the frame-work. The shaft B is about at the middle of the platform. The tracks A′ are bent upward at the downwardly-swinging end of the platform A, and are braced by braces *a*.

Adjoining the downwardly-swinging end of the platform A an opening, D, is formed in the frame-work C. A longitudinal central bar, E, is secured on the platform and projects from the rear or upwardly-swinging end of the same and to the outer end of the bar E, and to the downwardly-swinging end of the platform A two semicircularly-curved bars or plates, F, are secured, between which a balancing-block, G, is held by a bolt, I, passed through apertures *d* in the bars or plates F, and through the block. The block can thus be adjusted as may be necessary. As the middle of the car is not at the center of the curved bars or plates F, the weight or blocks G will be held eccentrically in relation to the shaft B. A brake-pulley, H, is mounted on one end of the shaft B within a slot, J, in the top of the frame-work. A brake-band, K, has one end secured to a staple, *g*, on the short end of a lever, L, pivoted in the slot J, and the other end of the band is secure to a staple, *h*, on the top of the lever L at the opposite side of its pivot. A lever, M, is pivoted in such a manner that it projects in the inverse direction of the lever L and rests on the free end of the lever L. When the platform A is in a horizontal position, it rests upon a beam, N, beneath which the bars F are passed.

The operation is as follows: The weight G is adjusted according to the weight of the car. The car is run on the platform A, and by its weight swings the front end of the platform downward, whereby the car is dumped. If the car is not to be dumped, the platform is prevented from swinging by applying the brake-band K by depressing the lever M, which in turn depresses the free end of lever L. As the brake-wheel H is rigidly mounted on the shaft B, the platform will be prevented from swinging if the brake is applied on the pulley H. If the car is run on the platform while the brake is applied, the platform will not swing down and the car will be dumped as soon as the pressure is removed from the brake-lever. As soon as the car is emptied, the rear end of the platform swings down.

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

1. A dumper consisting of a pivoted platform, to the bottom of which two curved bars or plates are fastened, between which a weight is held adjustably, substantially as herein shown and described.

2. In a dumper, the combination, with the platform A, mounted at its middle on a shaft, B, of the bar E, projecting from the rear end of the platform, and of the curved bars or plates F, secured to the front end of the platform and to the end of the bar E, and of the weight G, held between the bars or plates F, substantially as herein shown and described.

3. In a dumper, the combination, with a platform rigidly mounted on a journaled shaft, of a brake-pulley rigidly mounted on the shaft, a brake-band passed around the pulley, and of a pivoted lever to which the ends of the band are secured, substantially as herein shown and described.

4. In a dumper, the combination, with the platform A, mounted rigidly on a journaled shaft, B, of the brake-pulley H, mounted on the shaft, the brake-band K, passed around the pulley and having its ends secured to a pivoted lever, L, and a pivoted lever, M, resting on the free end of the lever L, substantially as herein shown and described.

5. In a dumper, the combination, with platform mounted rigidly on a journaled shaft, of curved bars or plates secured to the bottom of the platform eccentrically in relation to the shaft, and of a weight held adjustably between the said bars or plates, substantially as herein shown and described.

SAMUEL M. KEIBLER.

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