

(No Model.)

N. BARNEY.
DUMPING WAGON.

No. 515,854.

Patented Mar. 6, 1894.

Fig. 1.

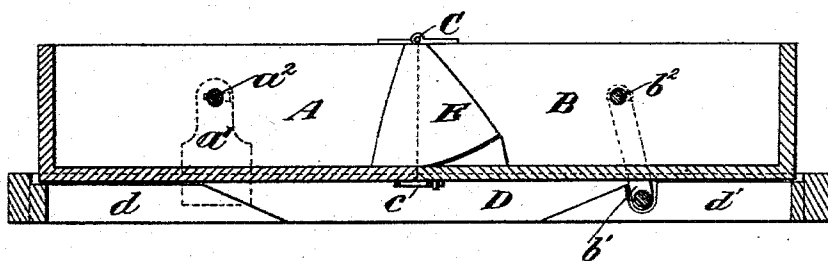


Fig. 2.

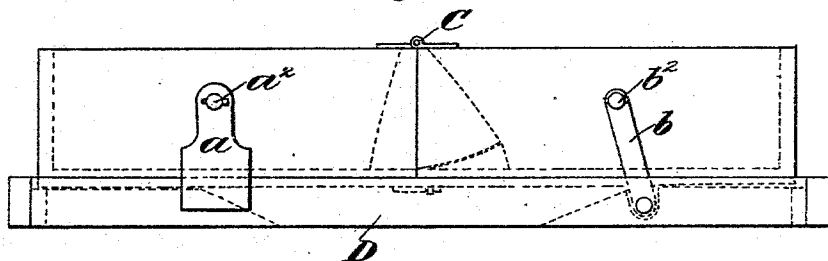
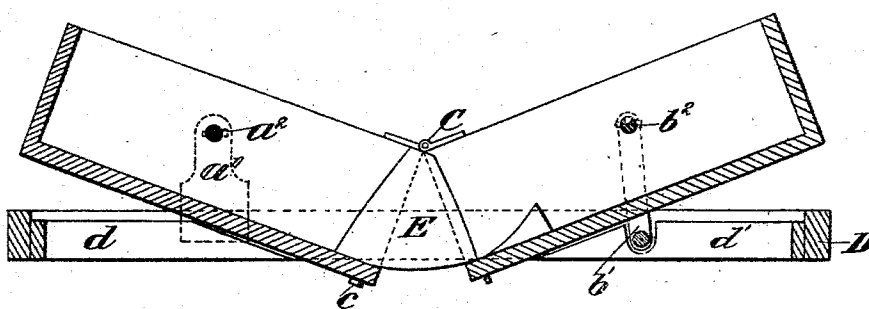


Fig. 3.



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UNITED STATES PATENT OFFICE.

NATHAN BARNEY, OF BROOKLYN, NEW YORK.

DUMPING-WAGON.

SPECIFICATION forming part of Letters Patent No. 515,854, dated March 6, 1894.

Application filed June 21, 1893. Serial No. 478,380. (No model.)

To all whom it may concern:

Be it known that I, NATHAN BARNEY, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful
5 Improvement in Dumping Cars or Wagons, of which the following is a specification.

My invention consists of an improved dumping car or wagon in which the body portion is divided transversely into two sections, the said sections being hinged together at
10 their upper adjacent edges, and one section being pivotally mounted in a rigid support secured to the bottom frame and the other being pivotally mounted in an oscillating
15 support which is also pivoted in swinging adjustment to the said bottom frame.

A practical embodiment of my invention is represented in the accompanying drawings in which—

20 Figure 1 is a longitudinal vertical section through the car when in its loaded position. Fig. 2 is a similar view in side elevation, and Fig. 3 is a longitudinal vertical section of the car in the position for dumping its contents.

25 The body of the car is divided transversely into two sections A and B, about half way the length of the said body portion. The said sections are hinged together at their upper adjacent edges, as shown at C, and, when the
30 sections are closed, they form one continuous receptacle for coal or any other substance that it may be desired to carry.

D designates the open bottom frame upon which the car or wagon body rests. This bottom frame may be provided with suitable
35 traction wheels which are not shown in the accompanying drawings. One of the sections, in the present instance the section A, is pivoted to a rigid support which consists in the
40 present instance of two upright posts a , a' which are secured at their lower ends firmly to the outside of the open bottom frame D and which form bearings at their upper ends
45 for pivots a^2 secured to the said section. The other section of the car or wagon body, in the present instance B, is pivoted to an oscillating support, in the present instance shown as arms
50 b , b' which are pivoted at their lower ends to the inside of the open bottom frame D and at their upper ends form bearings for pivots b^2 on the section B. The pivots a^2 and b^2 are so located upon the sections A and B that when

the car is loaded, the contents of each section balances that section upon its pivots so that there is no tendency for the sections to open
55 and dump the contents. I removably secure the bottoms of the two sections A and B together by means of a suitable fastening c , which fastening may be swung out of its
60 locked position when it is desired to dump the contents of the car. I provide one of the sections with overlapping flaps E on each side where it adjoins the opposite section, so that
65 as the sections are swung apart at their bottoms to dump the contents of the car, the flaps prevent the contents from escaping from the sides of the car and direct the contents through
70 the space formed between the bottoms of the two sections. The downward movement of the two sections is limited by means of inclined faces upon supplementary interior frames d ,
75 d' which are secured to the bottom frame D.

In operation, when it is desired to dump the contents of the car, I withdraw the fastening c and then press downwardly upon the
75 upper adjacent edges of the two sections where they are hinged together, exerting sufficient pressure to depress the said upper adjacent edges and thereby forcing the lower
80 adjacent edges of the bottoms of the two sections apart. The said movement inclining the bottoms of the two sections downwardly and inwardly so that the contents of the car is caused to run freely down the inclined bottoms and out of the opening between them.
85 By pivoting one of the sections to an oscillating support it is seen that the upper adjacent edges of the two sections may be hinged closely together and, as the sections are depressed at the center of the car, a wide opening
90 is formed between the bottoms of the two sections, thereby allowing the contents of the car to be dumped rapidly. It will be seen that by pivoting each of the sections so that the contents of the section balances the same
95 upon its pivot, a very slight pressure upon the hinges C is necessary to dump the contents when it is desired so to do.

My invention is equally applicable to cars or wagons and may be used for conveying
100 coal or other substances.

It is obvious that slight changes might be resorted to in the construction and arrangement of the several parts without departing

from the spirit and scope of my invention, hence I do not wish to limit myself strictly to what is herein set forth, but

What I claim is—

5 1. In combination, a bottom frame, a body carried thereby comprising two sections hinged together at their upper adjacent edges, a rigid support on the frame for pivotally supporting one of the sections, and an oscillating support pivoted to the frame, for pivotally supporting the other section, substantially as set forth.

10 2. In combination, an open bottom frame, a body carried thereby comprising two sections hinged together at their upper adjacent edges, rigid posts secured to the frame which serve to pivotally support one of the sections, oscillating arms pivoted to the frame and serving to pivotally support the other section, 20 and stops upon the frame for limiting the

tilting movement of the two sections, substantially as set forth.

3. In combination, an open bottom frame, a body carried thereby, comprising two sections hinged together at their upper adjacent edges, which sections when closed form one continuous box, a rigid support on the frame for pivotally supporting one section, an oscillating support secured to the frame for pivotally supporting the other section, and flaps secured to the sides of one of the sections for preventing the escape of the contents of the body between the sides of the sections when the said sections are tilted, substantially as set forth.

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Witnesses:

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