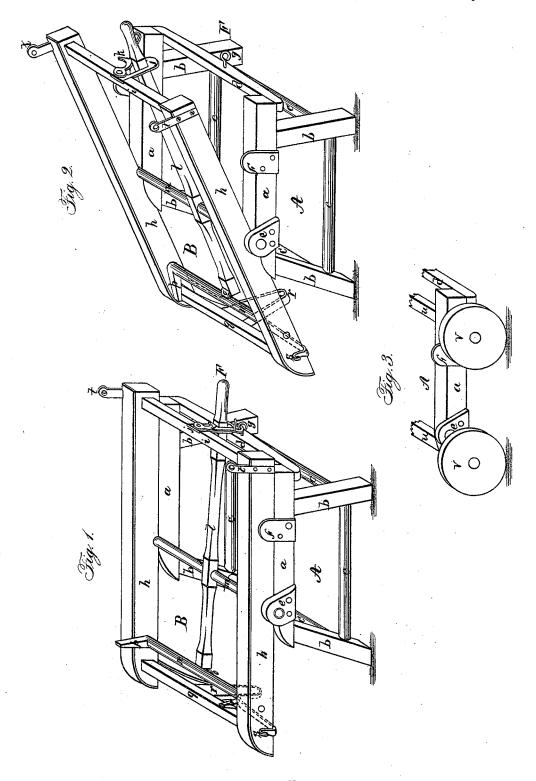
## C. DOWNER.

## Dumping-Wagon.

No. 6,609.

Patented July 24, 1849.



## UNITED STATES PATENT OFFICE.

CHARLES DOWNER, OF PHILADELPHIA, PENNSYLVANIA.

APPARATUS FOR UNLOADING CARTS, &c.

Specification of Letters Patent No. 6,609, dated July 24, 1849.

To all whom it may concern:

Be it known that I, Charles Downer, of the city and county of Philadelphia, in the State of Pennsylvania, have invented a new 5 and useful Unloading Apparatus for Weighing and other Purposes; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference 10 being had to the annexed drawings, making a part of this specification, in which—

Figure 1 represents a complete apparatus with the tilting-frame in a horizontal position, or at rest; Fig. 2, the same, with the tilting-frame in its inclined position, or during the act of tilting; and Fig. 3 shows the manner of appling wheels to said apparatus

when requisite. The apparatus, represented in the draw-20 ing, is one to be used for weighing short articles, such as pig-iron and other similar ones, which allow of being tilted off (promiscuously) without injury to them. composed of two main parts, viz: the lower 25 or stationary frame A, and the upper or tilting frame B. The former consists of two parallel top rails a, the supporters or legs b, the cross-ties c, and d, the gudgeon boxes e, the guides f, and the eye or staple g. The upper or tilting frame is composed of the parallel side rails h, the front cross rails i, the lever-guide j, the hook or check k, the central lever l, its fulcrum or axis m, the stanchion rod n with its cam o, the mov-35 able stanchions p, the rear cross rail q and its standard r, the hooks s, and the front permanent stanchions t. All the parts appertaining to the apparatus having thus been enumerated, the following is a descrip-40 tion of its operation. The apparatus is placed crosswise under the common weighing frame, the front end F toward the pile of articles to be weighed. The upper or tilting-frame B rests in a horizontal position on the lower frame A (see Fig. 1), and is secured thereto by means of the hook k beting inserted in the eye or staple g on the cross-tie d. The movable stanchions p

are kept in an upright position by means

of the cam o on the bar n, which former presses against the rear-end of the central

lever l, the front end whereof is held down

by means of the check k. The tilting frame

is loaded with the articles to be weighed,

55 the chains of the weighing-frame are at-

tached to the hooks s and the stanchions t, and the weight is taken. This being accomplished, the hook and check k is swung over, disengaging the tilting-frame from the lower one and relieving the front end of 60 the central lever l. Said end of the lever is then raised (by hand) whereby the opposite end thereof is depressed, clearing the cam o, and consequently allowing the stanchions pto lay down, when pressed against by the ar- 65 ticles, and make room for the whole load to slide off; the tilting-frame being so balanced on the gudgeons e, as to tilt nearly of its own accord and with but little assistance, which is rendered by slightly raising the 70 said front end of the central lever. The standard r serves to support the rear-end of the tilting-frame, when tilted. Said tilted position is distinctly shown in Fig. 2.

When articles, such as scrap iron, &c., 75 (too small to be weighed in the above-described manner), are to be weighed, the tilting frame is furnished with a temporary bottom supported by flanges on the inside of the side-rails h, or in any other suitable 80 manner. Suitable upright end and side boards are also made use of, when requisite.

For the weighing of bar-iron and other similar long articles, the apparatus requires to be shorter and wider than the one described above, otherwise alike in construction and operation. In this case, the weighing-frame is placed lengthwise over the apparatus after being loaded, and when the weight has been taken, the weighing-frame 90 is removed sideways a sufficient distance to allow the articles to be tilted off; and when loaded again the said frame is placed over the apparatus again in the same manner.

The lower frame A instead of being supported by legs b, may rest on axletrees u and wheels v, as represented in Fig. 3, to be used when articles require to be removed a greater or less distance, either to or from the weighing-frame or platform scale, or 100 from one place to another, without being weighed.

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

1. The combination of the upper or tilt- 105 ing-frame B with the lower frame A, the latter being either stationary or on wheels.

2. I furthermore claim the central lever l with its check and hook k, in combination with the stanchion-rod n, the cam o, and the 110

stanchions p; and said lever, check and hook, stanchion-rod, cam, and stanchions, in combination with the tilting-frame B, being mounted either on a stationary frame, as represented in Fig. 1 and 2, or on wheels as shown in Fig. 3; the construction, arrangement, and operation of all of which

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being substantially in the manner and for the purposes herein above described.

CHARLES DOWNER.

Witnesses:

FRANCIS BENNE, CHAUNCEY BULKLEY.