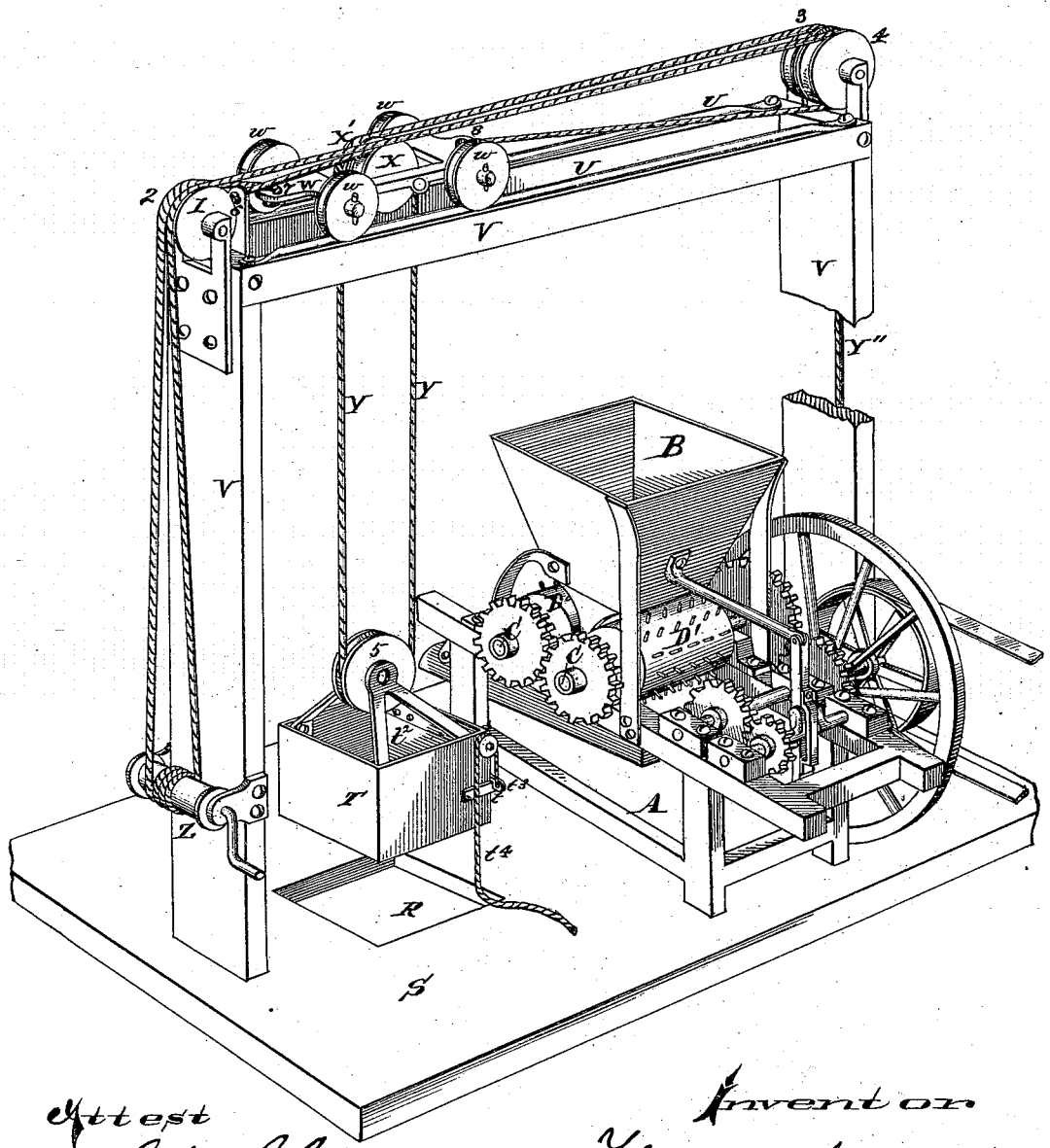
FLORENCE MARMET.

ELEVATORS AND CONVEYORS FOR COKE-CRUSHERS.

No. 187,158. Patented Feb. 6, 1877.



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FLORENCE MARMET, OF CINCINNATI, OHIO.

IMPROVEMENT IN ELEVATORS AND CONVEYERS FOR COKE-CRUSHERS.

Specification forming part of Letters Patent No. **187,158**, dated February 6, 1877; application filed November 17, 1875.

To all whom it may concern:

Be it known that I, FLORENCE MARMET, of Cincinnati, Hamilton county, and State of Ohio, have invented an Improvement in Elevator and Conveyer for Coke-Crusher, of which the following is a specification:

This invention relates to machines for crushing gas or other coke; and its object is to facilitate the delivery of the coke into the hopper of the crushing-machine.

My improvement consists in a peculiarly-constructed hoisting and conveying apparatus, by means of which the coke is easily elevated and conveyed into the hopper.

The drawing is a perspective view of a machine embodying my invention.

A is the frame of the machine; B, the hopper, and C the shafts of the crushing-rollers D D′. The coke to be operated upon by the machine just described is conveyed to the hopper B by the following device: A cavity or receptacle, R, is provided below the floor S, for the hoisting and conveying box T to rest in, so that the top of the box may be flush with the floor, to render it convenient for the dumping therein of the large coke. Upon the rails U of the frame-work V a wheeled truck, W, is arranged to travel, its wheels *w* resting on the rails. This truck carries two sheave-wheels, X X′, and upon the ends of the frame V are journaled the sheave-wheels 1 2 3 4, a sheave-wheel, 5, being also attached to the box T. Y is the hoisting, and Y′ the conveying, rope, the latter arranged to pass over the windlass Z, and the former having a "fall" or loose end, Y″, adapted to be used as a hoisting-rope, and fastened, when the box is hoisted, to any convenient projection from the frame V. The rope Y starts at the point 6 on the frame V, passes over the wheels X, X′, 5, and 3, in the order named, and ends in the fall Y, and it serves to elevate the box T to the proper height for conveyance to the top of the hopper B. The rope Y′ starts at point 7 on the truck, passes over the pulley 2, windlass Z, and pulleys 1 4, in the order named, and is secured to the truck at the point 8.

By this arrangement the windless is enabled, when the box is hoisted, to convey it to a position over the hopper for delivery, the peculiar arrangement of the hoisting-rope enabling this operation to proceed.

By reversing the motion of the windlass, the box, after being emptied, can be returned to a position over the hole R, for lowering by rope Y and refilling. The box T is provided with hooks *t t*, faced in opposite directions, and a swinging door, t^2, having a swinging arm, t^3, operated by rope t^4. This device enables the operator, when the box is elevated and over the hopper, to dump the contents into the hopper, the rope acting to release the arm t^3 on both sides, and allow the coke to open the door t^2.

I claim—

The combination of track U, truck W, ropes Y Y′, box T, and windlass Z, the ropes being connected, and passing the necessary pulleys, substantially in the manner and for the purpose specified.

In testimony of which invention I hereunto set my hand.

FLORENCE MARMET.

Witnesses:

EDGAR J. GROSS,

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