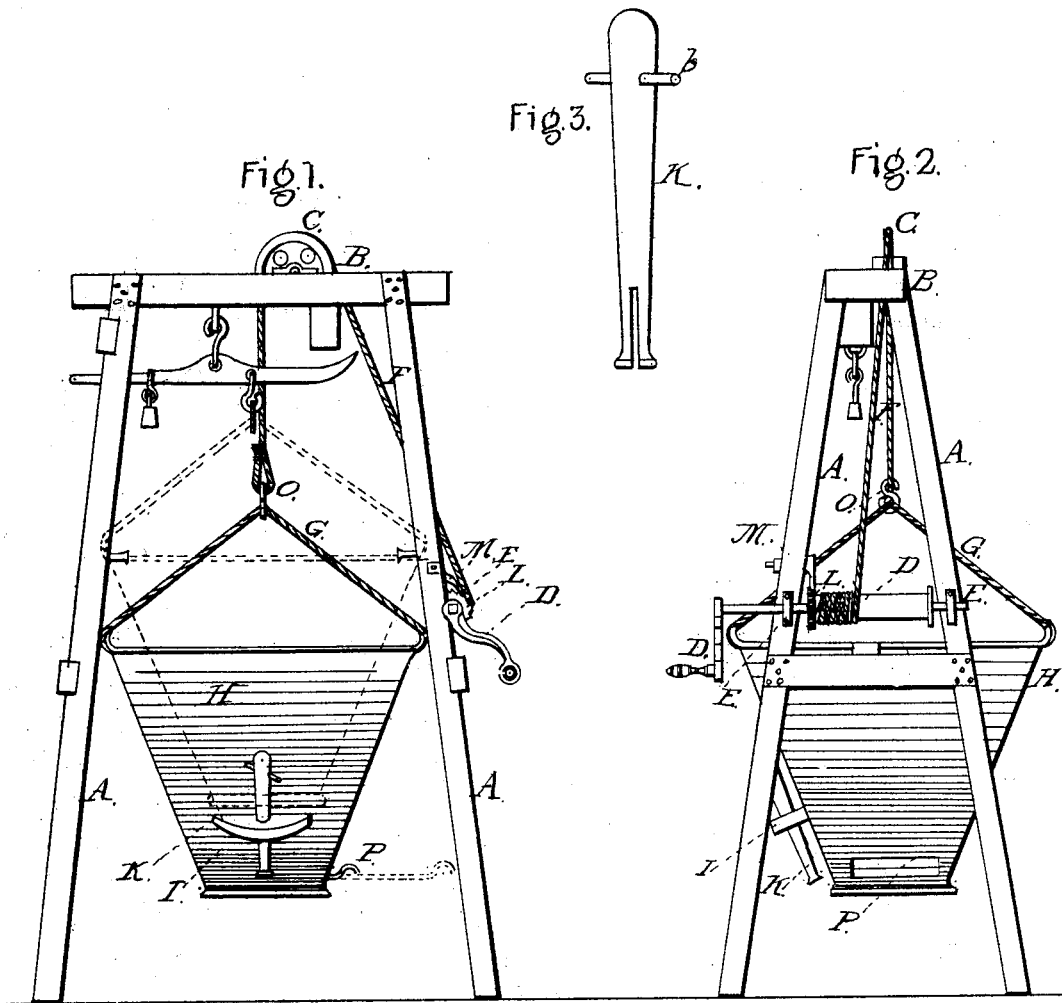


*Whelan & Wakeley.*

*Sack Scales.*

*N<sup>o</sup> 110,707.*

*Patented Jan. 3, 1871.*



Witnesses:

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# United States Patent Office.

CHARLES A. WHELAN AND CHARLES T. WAKELEY, OF MADISON,  
WISCONSIN.

Letters Patent No. 110,707, dated January 3, 1871.

## IMPROVEMENT IN BAG-FILLING AND WEIGHING-MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

Be it known that we, CHARLES A. WHELAN and CHARLES T. WAKELEY, both of Madison, in the county of Dane and State of Wisconsin, have invented a new and useful Machine for Holding and Filling Bags and Weighing Grain and Produce, called "Bag-Filling and Weighing-Machine;" and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, in which—

Figure 1 is a front view;

Figure 2 is a side view; and

Figure 3 is a view of the pin for tightening the bag.

To construct our machine we make four legs, A A, five and a half feet long by two inches square, and insert the same at their upper ends in a plank, B, about two and one-half feet long, eight inches wide, and two inches thick, the lower ends of the legs being spread to the right and left about five feet apart. In the said plank B we fix the pulley C, so that its left side will be back of the center of said plank, the journals of the pulley resting on its upper surface. We then place the windlass D, consisting of a roller and crank, at a convenient height for the hand, upon the outer side of the two right-hand legs, supported by proper boxes, E E, and we attach a rope, F, to said roller, passing the same over the pulley C, and attaching the other end of said rope, by means of the double hook hereafter described, to four cords, G G, which support from its corners the hopper H, made large enough to hold the contents of an ordinary bag.

Upon the front of said hopper we fasten the circular block I, properly perforated or bored for the movable pin K, which tapers toward the lower end, where it is enlarged, and which is also forked in the shape of a clothes-pin some two inches from its lower end, and has a smaller pin inserted through its upper end for turning with the hand. The lower sides of said hopper are furnished with a cleat, making a rim around the same.

Said roller is furnished with the ratchet L and latch M, which latch is fastened so as to support itself when elevated upon the leg over the roller.

Above the edges of the hopper, when elevated, are placed the stops N N upon the legs.

From the plank B, at the left of the center, we suspend a pair of beam scales, the weight to the left, and having its hook below and slightly to the front of the center of said plank B, and sufficiently elevated to conveniently hook into the double hook O, which connects the cords G G with the rope F. The hopper H is provided with the slide P at the bottom.

To operate our machine we extend the mouth of the bag over the mouth of the hopper, placing the front edge of the bag in the fork of the pin K, which pin is then twisted until the slack of the bag is taken up. The pin will rest firmly in its socket and hold the loaded bag in its place.

By means of the windlass the hopper can be lowered or raised to the desired height for filling with a shovel or measure, and when sufficient has been placed in the hopper, by raising to the stops or the height of the bag, and removing the slide, the bag will be filled ready for removal.

If desired to weigh the contents, the hopper, when loaded, is elevated so that the hook of the scales can be inserted in the double hook of the hopper, the crank is turned backward, and the load is suspended on the scales and weighed. The bag is then attached as described, and contents of hopper emptied, by drawing the slide.

To weigh articles not to be put in bags, the hopper can be detached and the article inserted in the double hook, hauled up, and weighed in the same manner.

What we claim as our invention, and desire to secure by Letters Patent, is—

1. The pin K, provided with cross-pin *p* and slot *a*, in combination with block I on hopper H, when connected and arranged as shown, and for the purpose specified.

2. The combination of the hopper H, having block I and pin K, with the frame A, windlass D, and scales S, when all constructed, arranged, and operated as shown, for the purpose described.

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Witnesses:

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