

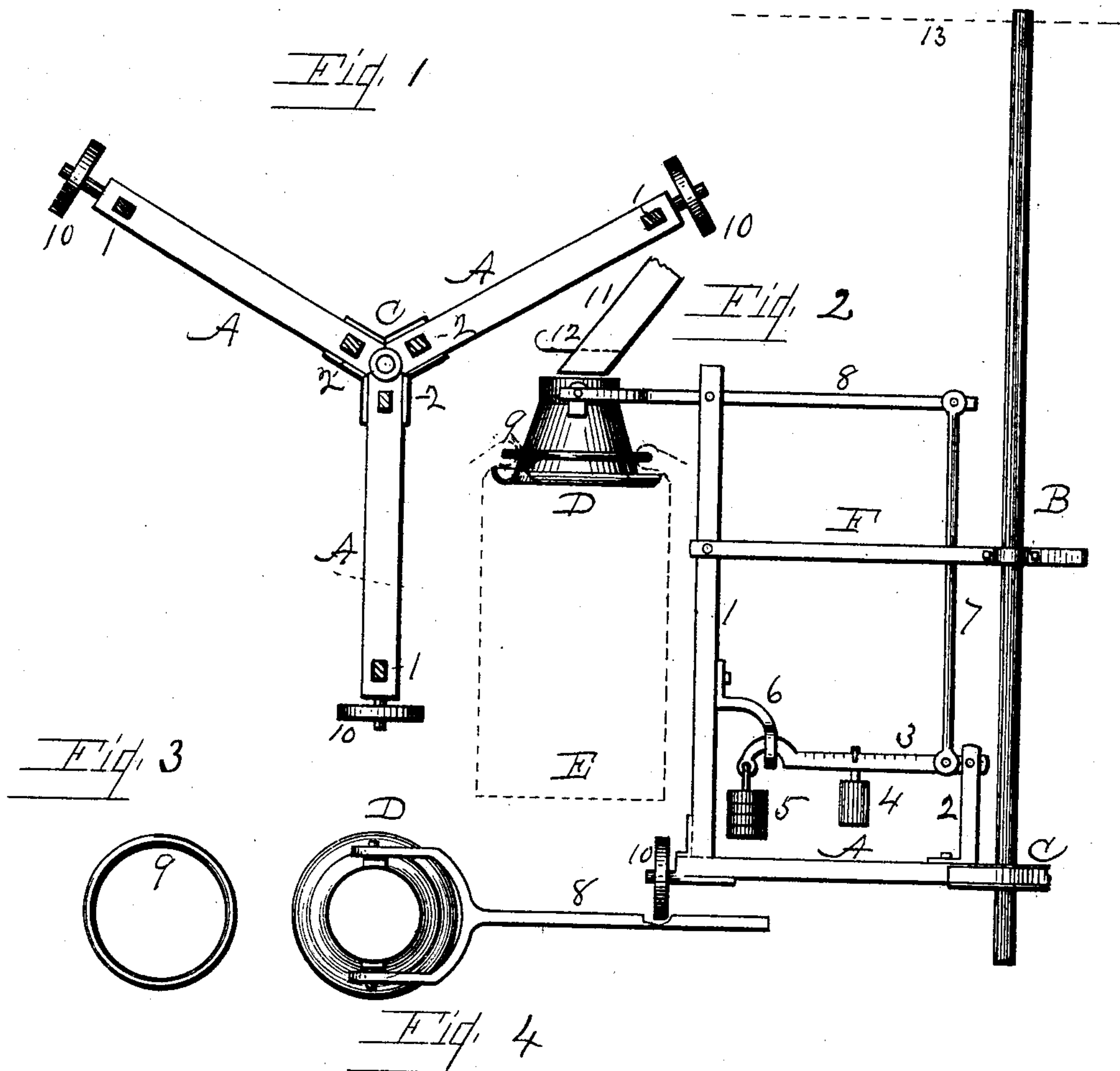
No. 614,719.

Patented Nov. 22, 1898.

J. H. HOOLIHAN.
ROTATING WEIGHER AND SACKER.

(Application filed Mar. 23, 1898.)

(No Model.)



Witnesses
John P. Foote,
S. H. Merchant

Inventor
John H. Hoolihan
By B. Pickering
Attorney.

UNITED STATES PATENT OFFICE.

JOHN H. HOOLIHAN, OF DAYTON, OHIO.

ROTATING WEIGHER AND SACKER.

SPECIFICATION forming part of Letters Patent No. 614,719, dated November 22, 1898.

Application filed March 23, 1898. Serial No. 674,887. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. HOOLIHAN, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Rotating Weighers and Sackers; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in a rotary weigher and sacker which consists of triplicate parts for weighing and a device for attaching the sacks to each of the weighing-beams, the object being to expeditiously fill sacks with material to a specific amount, each separate scale of the series being adjusted to a specific weight. The construction will be fully hereinafter described and claimed.

I attain the object by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a plan of the base of the machine. Fig. 2 is a side elevation of one of the three like parts comprising the machine. Fig. 3 is a view of the binding-ring. Fig. 4 is a top view of the sack-holder and the beam to which it is pivoted.

The letters and numerals designate like parts in the several views.

The pivotal iron shaft is supported in a step-bearing in the floor of a building and a bearing attached to the ceiling. Near the lower end of this shaft and above the floor is fixedly secured the spider C, in which are bolted the three wooden arms A. To the outer ends of these arms are bolted spindles, on which the three supporting-wheels 10 are attached. The support of the machine may be wholly on the step with the top bearing or on said supporting-wheels, or on both combined, and if the wheels are relied upon quite exclusively a circular track of metal may be attached to the floor.

To each of the radial arms A are attached the uprights 1 and 2. The stay-bars F extend

from the shaft to the three uprights comprising the former to hold them securely in position, and near the tops of these are pivoted the three beams 8. To the upright or standard 2 is pivoted the scale-beam 3, which is connected with the beam 8 by the vertical rod 7. The guide 6 is bolted to the upright 1, and in this the movements of said scale-beam are arrested. To the free end of this beam the weight 5 is suspended, and this weight acts as the counterpoise to the required weight of the filled sack. It is preferable to use the required weight on the end of the scale-beam; but, if desirable, the small weight 4 may be used on said beam for nice adjustment, but is not essential to the function of the machine, as a fixed weight is preferable as a means to expedite the work. The dotted line 13 is the line of the ceiling, and on an upper floor is a bin to which the pipe 11 is attached, and 12 is the slide for opening and closing of the same. Said pipe terminates near the sack-holder.

The sack-holder D is suspended on pivots within the forks of the beam 8. The general form of the sack-holder is a hollow cone with the lower edge turned up entirely around. This edge is preferably serrated. (Not so shown in the drawings.) The sack is represented by dotted lines at E. The sack is carried over the edge of the holder, and the metal ring 9 is pressed down over the same, and this securely holds the sack, and to release the same when filled the ring is raised and the filled sack drops away.

The weighers and holders are triplicate, the same being identical in construction. Therefore but one complete part is shown, as in Fig. 2. The number of distinct parts may be diminished or increased; but three parts are regarded as the most favorable.

To describe the operation, we will suppose three men engaged, one to put the sack on the holder, one at the spout to let in the material and close the spout when the weight on the scale-beam is raised, and the other to receive the filled sack and to detach and tie the same. To effect this, the machine is made to rotate one-third of a circle at each movement. When the weight 5 is properly

adjusted to a given weight for the sack, the weight 4 is unnecessary and is not ordinarily required. The pull on the standard 2 is upward, and a flexible connection with the arms 5 may be substituted.

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

1. In a weigher supported in bearings in 10 the floor and ceiling of a building and adapted to rotate, the combination of the shaft B, the spider C provided with the horizontal arms A, the standard 2, the scale-beam 3 pivoted in said standard, the weight 5 suspended 15 from the outer end of said scale-beam, the arresting-guide 6, the upright 1 secured by the stay-bars F to said shaft, the forked beam 8 pivoted in said upright and adapted to support a sack on its outer end, and the rod

7 connecting the said beams, substantially 20 as described.

2. In a weigher of triplicate parts the combination of the pivotal shaft supporting the several parts, the standards, the scale-beams pivoted to said standards, the counterweight 25 on said scale-beams, the horizontal arms, the uprights held thereon and secured to said shaft, the forked beams pivoted in said uprights, the rods connecting said beams, and the sack-holders suspended in said upper 30 beams, substantially as described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JOHN H. HOOLIHAN.

Witnesses:

B. PICKERING,
W. H. H. ECKI.