

(No Model.)

A. M. ROSCOE & G. E. GRIER.

BAG HOLDER.

No. 379,817.

Patented Mar. 20, 1888.

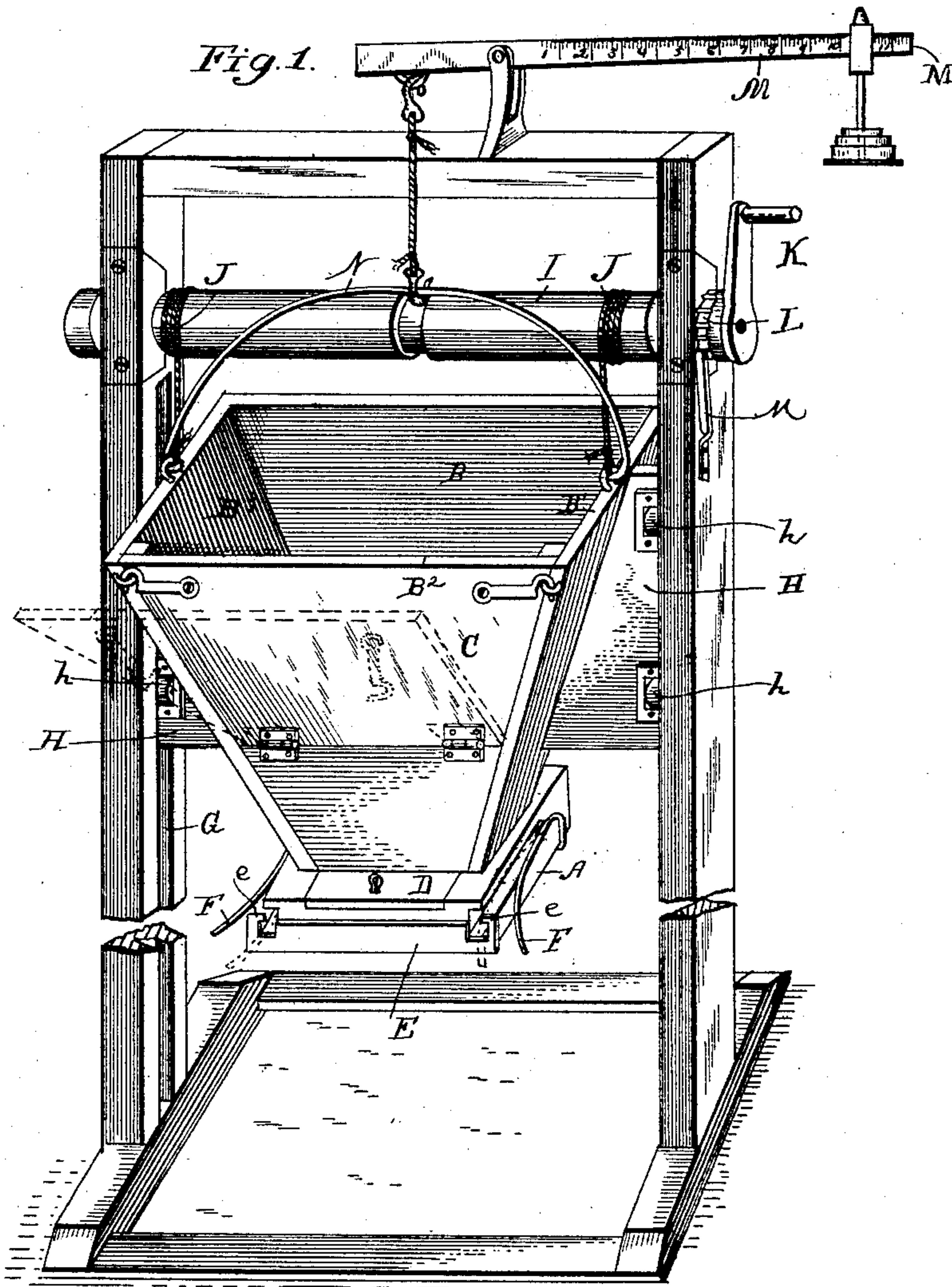
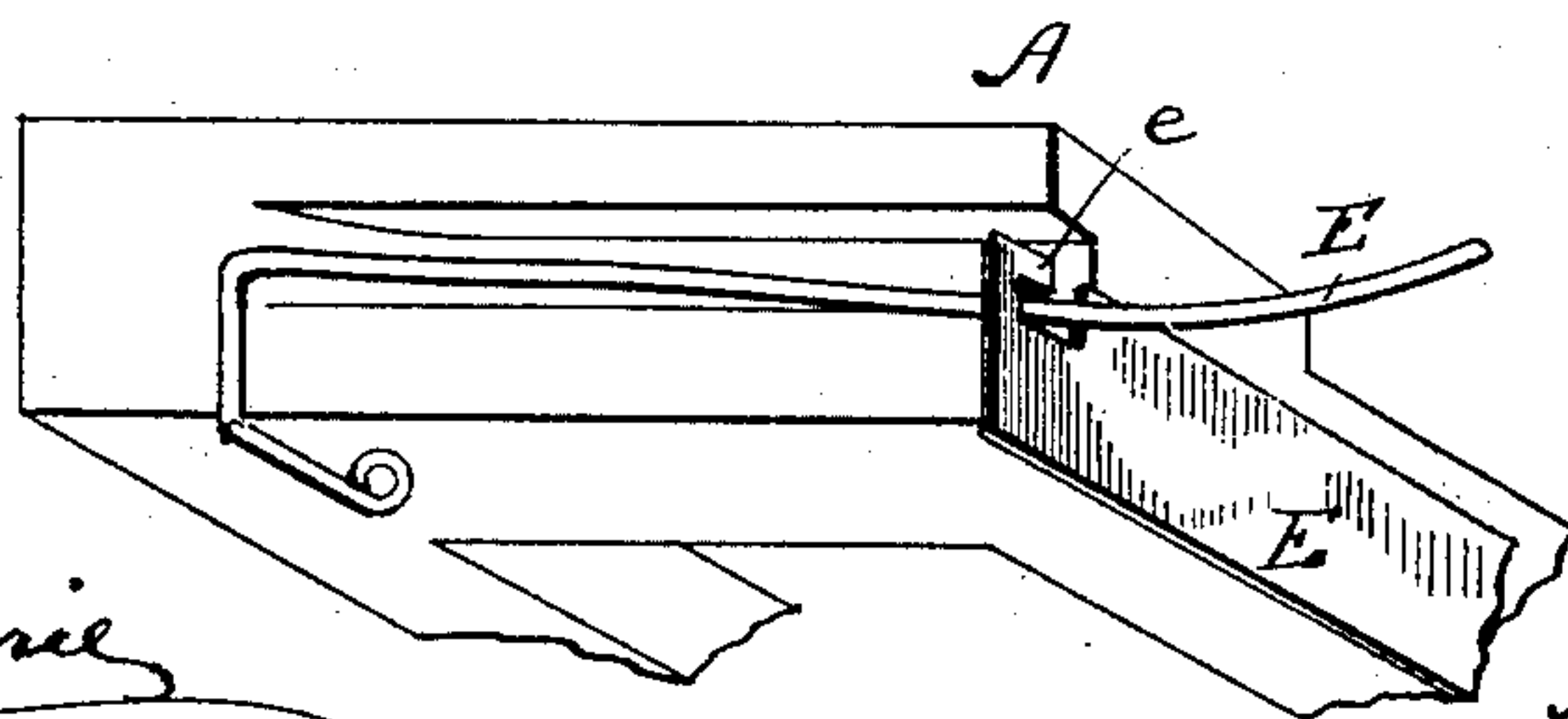


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

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BAG-HOLDER.

SPECIFICATION forming part of Letters Patent No. 379,817, dated March 20, 1888.

Application filed July 2, 1887. Serial No. 243,257. (No model.)

To all whom it may concern:

Be it known that we, ALLISON M. ROSCOE and GEORGE E. GRIER, citizens of the United States, residing at Dubois, in the county of Clearfield and State of Pennsylvania, have invented certain new and useful Improvements in Bag-Holders; and we do declare the following to be a full, clear, and exact description of the invention, such as 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.

This invention relates to bag-holding devices, and has for its object the provision of simple and convenient means for connecting the sack with the hopper, and which can be readily and conveniently operated to detach the sack from said hopper quickly.

The improvement consists in the peculiar construction and combination of parts, which will be more fully hereinafter set forth and claimed, and shown in the annexed drawings, in which—

Figure 1 is a perspective view, parts being broken away, of a hopper and bag-holder embodying our invention; Fig. 2, a perspective view of the bag-holding clamp on an enlarged scale.

The hopper is of ordinary construction, and is composed of the bottom A and the tapering sides B B' B'' B'''. The side B'' consists of a fixed portion and a movable portion, C, which, for convenience, is hinged at its lower edge and adapted to turn down when supplying grain to the hopper for filling sacks, thereby lessening labor, as it is not necessary to lift the grain the full height of the hopper when filling the sacks simply, without regard to weight or measure, the hopper being in this instance used as a support for the sack and a chute to direct the grain into said sack. The bottom is apertured, and the aperture is closed by the slide D. The edges extend beyond the sides of the hopper, and the front edge is provided with the plate E, having catches at each end, formed by notching the plate in its upper edge, forming the overhanging portions e, which engage with the spring clamp-arms F, made of stout wire or rod of metal of proper length, and pivoted to the under side of the bottom, near the rear corner thereof, and extended up along the edge of said bottom, and

thence forward in the plane of the bottom, and curving outwardly from said edge, so as to clamp the bag between it and said edge, which is grooved or channeled to obtain a better hold on the bag, which is forced into said groove by the spring clamp-arms. The groove or channel tapers or grows deeper from back to front, being deepest at or near plate E.

The hopper is adapted to move vertically for adapting it to different sizes of bags, for permitting the weighing of the grain, and for lowering it for convenience of filling and elevating it when filled for emptying the grain into a sack. It is directed in its movements by the vertical ways G and the side extensions, H, working in said ways, and provided with anti-friction rollers h, to reduce friction and prevent binding. The shaft or windlass I, journaled between the ways G, unites their upper ends, and is connected with the hopper by the chains or cords J'. One end is provided with the crank K and the ratchet-wheel L, which is engaged by the dog or pawl M to hold the hopper at any desired level. For weighing purposes the hopper is provided with the bail N, by which it may be suspended from a suitable weighing-beam. During the operation of weighing, the cords J are slackened and the hopper and contents are wholly suspended from the weighing-beam, as will be readily understood.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

1. The combination, with the hopper, of the spring clamp-arms, fastened at one end and extending along on opposite sides of the hopper, and having their free ends curving outward, and the plate E, notched in its upper edge near each end to form catches for the free ends of the spring-arms, substantially as described.

2. The combination, with the hopper having grooves in the edges of its bottom, of the spring clamp-arms adapted to enter said grooves, and the catches for holding them in the grooves, as and for the purpose set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

A. M. ROSCOE.
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Witnesses:

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