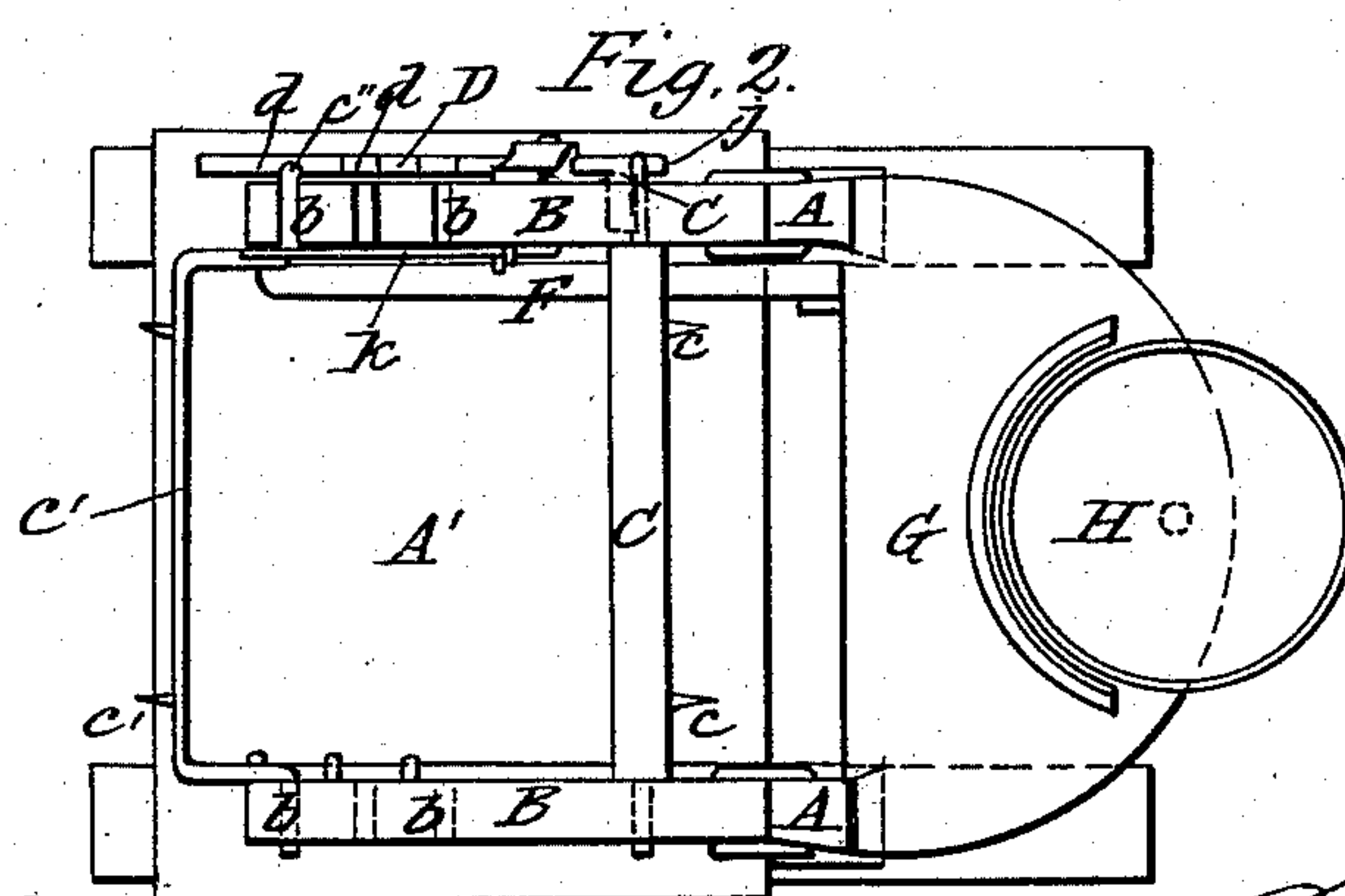
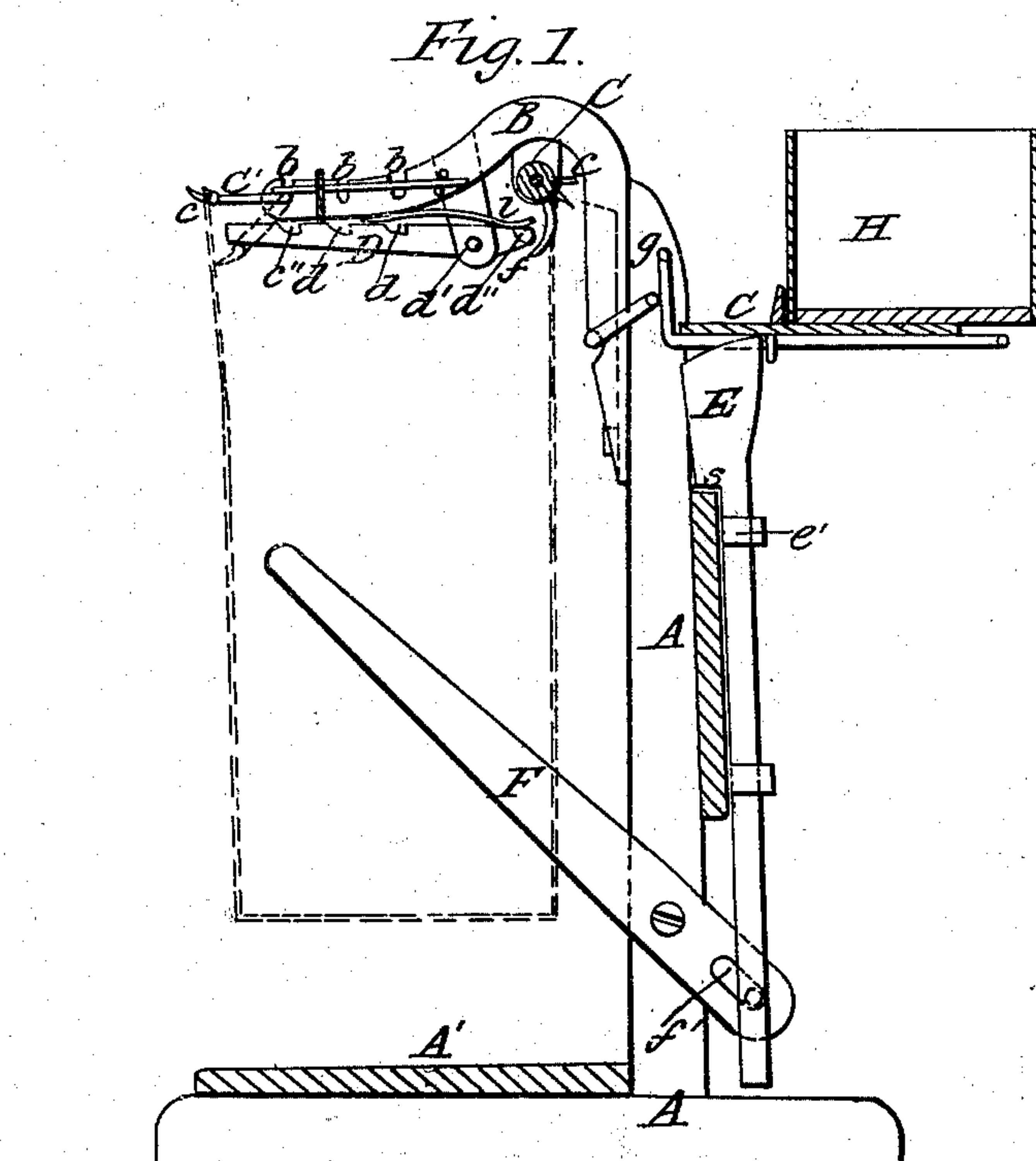


G. E. RANDALL.

Bag Holder.

No. 48,208.

Patented June 13, 1865.



Witnesses:
J. W. Cramb
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UNITED STATES PATENT OFFICE.

GEORGE E. RANDALL, OF YAPHANK, NEW YORK.

IMPROVEMENT IN HOLDING AND FILLING BAGS.

Specification forming part of Letters Patent No. 48,208, dated June 13, 1865; antedated June 6, 1865.

To all whom it may concern:

Be it known that I, GEORGE E. RANDALL, of Yaphank, in the county of Suffolk and State of New York, have invented a new and useful Improvement in Apparatus for Holding and Filling Bags; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a longitudinal vertical section of the apparatus. Fig. 2 is a plan view of the same.

Similar letters of reference indicate corresponding parts in both figures.

The object of my invention is to simplify the operation of holding and filling bags with grain or other material; and to this end it consists in a device which, with the assistance of one person, performs the usual work of two or more.

To enable others skilled in the art to make and use my invention, I will proceed to describe it with reference to the drawings.

A is an upright frame, to which two arms, B B, are secured, by means of bolts or otherwise, in such manner that they can be adjusted higher and lower for bags of different depths. These arms contain the bearings for the two shafts C C', which are furnished with pointed pins *c c*, from which the bag (represented in blue color in Fig. 1) is suspended while filling, and by which its mouth is held open. The shaft C, which is nearest the frame A, is straight and is always arranged in the same bearings. It has at one end a curved arm, *j*, set in a downward direction. The shaft C' is of cranked form between its bearings in the arms B B, and has at one end a curved arm, *c''*, substantially like the arms *j* of the shaft C, but curved in the opposite direction. These arms *j* and *c''* are at corresponding ends of their shafts, so that both may operate in connection with a lever, D *d''*, which works on a fulcrum-pin, *d'*, which attaches it to one of the arms B B. The shaft C' may be shifted from one to another of several pairs of bearings *b b'*, provided in the arms B B for its reception, and thus brought at various distances from the shaft C' to accommodate bags of various sizes. The bearings *b* in one arm B are open at the top to allow the shaft to be easily taken out and moved

from one pair of bearings to another, and the shaft is secured in either of these bearings *b* by means of a sliding bolt, *k*, attached to the arm B. The lever D *d''*, before mentioned, has a short arm, *d''*, the extremity of which is opposite the arm *j* of the roller C, and a long arm, D, which comes under the arm *c''* of the shaft C'. The arm D has notches in its upper side opposite to the several bearings *b b* for the reception of the end of the arm *c''*. A spring, *i*, is applied to press down upon the short arm *d''*, and so hold the long arm up to the arm *c''*. This lever D *d''* serves to keep the mouth of the bag extended, as shown in Fig. 1, by its action upon the arms *j* and *c''* of the shafts C and C'.

G is a platform, arranged on the opposite side of the upright frame A to that on which the arms B B are situated, and supported, when at rest, in a horizontal position by means of a vertical sliding rod, E, working in guides *e' e'* attached to the frame A, a shoulder on the said rod then bearing upon a portion of the said frame. Upon this platform is secured a measure, H, for measuring the grain or other substance with which the bags are to be filled.

F is a lever, attached to the frame A by a fulcrum-pin, *f*, and connected with the lower part of the rod E by a slot-and-pin connection, *e f*.

The operation is as follows: The rods C C' being relieved of lever D, by pressing down the latter and releasing the arm *c''* from the notch *d* are allowed to turn, so as to lessen the distance between their respective pins *c c*, and thus enable the operator to easily fasten the ends of an empty bag to those pins. This position is shown in red lines in Fig. 1. The rod C' is next turned in its bearings to bring its crank up to a horizontal position, thereby extending the mouth of the bag and making the arm *c''* press down the long arm of lever D. The arm *c''* then catches in one of the notches, *d d d*, and acts as a pawl to keep the crank of the rod C' turned outward, the short arm of lever D at the same time pressing against the curved arm *j* at the end of the rod C, and preventing its pin *c c* from turning downward. By this operation the mouth of the bag is stretched out and held wide open, ready to be filled, which is now done by forcing down lever F, which lifts up and turns over platform G by means

of the rod E, thereby emptying the contents of measure H into the suspended bag. When the bag is filled the lever D is depressed enough to relieve pawl *c''*, causing the rods C C' to turn downward, as shown in red outline in Fig. 1, and thus allowing the bag to slip off the pins *c c* and drop down on platform A'.

What I claim, and wish to secure by Letters Patent, is—

1. The combination of the two shafts C C', fitted with pointed pins *c c*, and furnished with arms *j* and *c''*, the notched lever D, and spring

i, substantially as herein described, for the purpose of holding and extending open the mouth of the bag.

2. The lever F, bar E, platform G, and measure H, in combination with each other and with the devices for holding and extending the mouth of the bag, substantially as herein set forth.

GEO. E. RANDALL.

Witnesses:

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