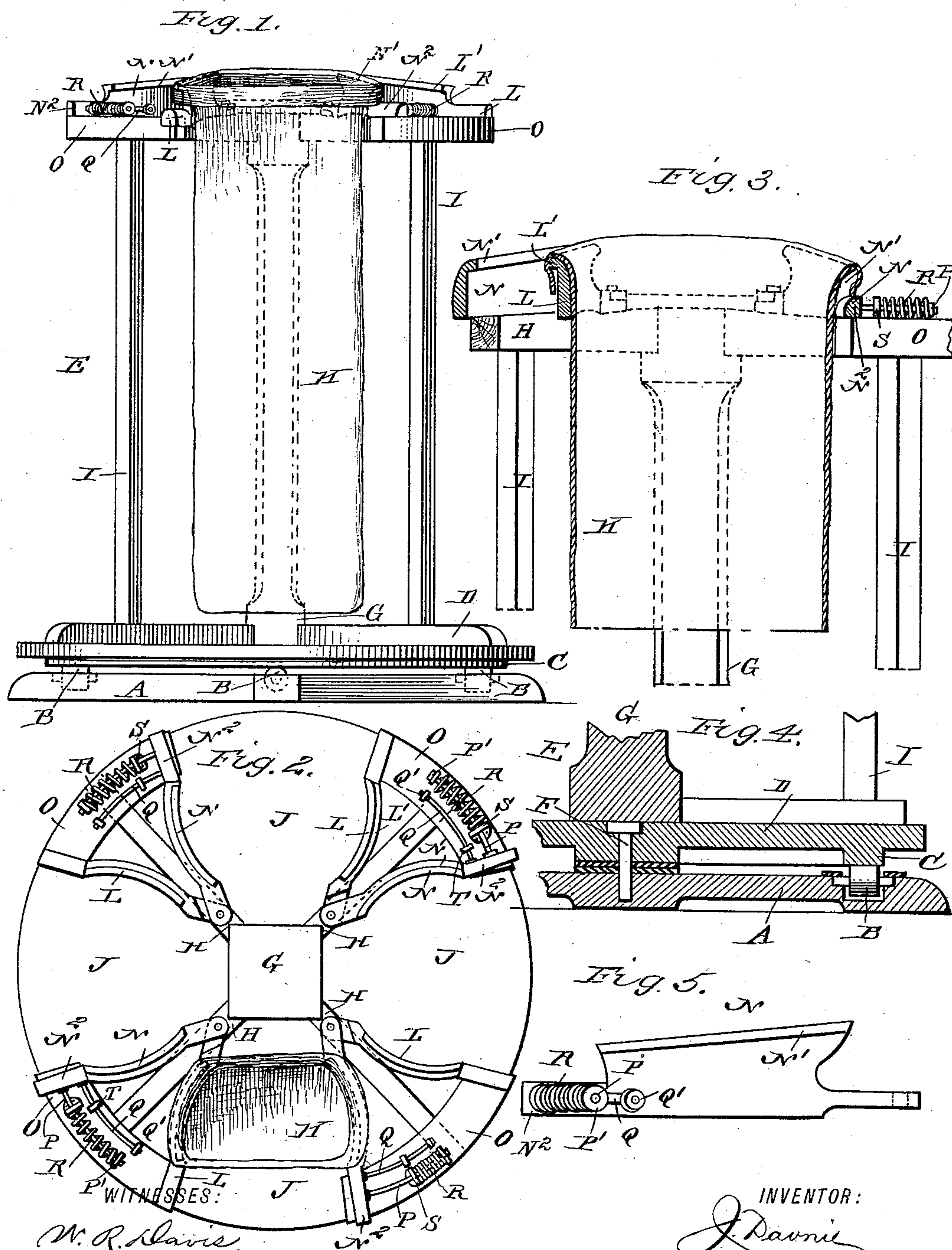


(No Model.)

J. DAVNIE.
BAG HOLDER.

No. 452,216.

Patented May 12, 1891.



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UNITED STATES PATENT OFFICE.

JAMES DAVNIE, OF HALLOCK, MINNESOTA.

BAG-HOLDER.

SPECIFICATION forming part of Letters Patent No. 452,216, dated May 12, 1891.

Application filed September 24, 1890. Serial No. 365,969. (No model.)

To all whom it may concern:

Be it known that I, JAMES DAVNIE, of Hallock, in the county of Kittson and State of Minnesota, have invented a new and Improved Bag-Holder, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved bag-holder, which is simple and durable in construction and adapted to hold a number of bags in an open position for conveniently filling the same.

The invention consists of a frame mounted to revolve, and provided with a number of holders of special construction.

The invention also consists of certain parts and details and combinations of the same, as will be hereinafter fully described, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the improvement. Fig. 2 is a plan view of the same. Fig. 3 is an enlarged sectional side elevation of one of the holders. Fig. 4 is an enlarged sectional plan view of the lower part of the frame, and Fig. 5 is an enlarged side elevation of a spring-pressed arm of a holder.

The improved bag-holder is provided with a base A, on top of which are mounted to turn in suitable bearings a series of rollers B, arranged in a circle, and on which is adapted to travel a track C, formed on the under side of the bottom D of the frame E. The bottom D is connected in its center by a pivot-pin F with the base A, so that the frame E can be revolved, turning with its track C on the rollers B. The frame E is also provided in its middle with a post G, from the upper end of which extend horizontally a number of arms H, supported near their outer ends on posts I, resting on the bottom D of the frame E.

Between the several arms H and the posts I are formed open spaces J, into which are introduced the bags K, adapted to be supported at their mouth by holders arranged on top of the horizontally-extending arms H. Each holder is provided with a fixed segmental arm L and a movable segmental arm N, both arms being set edgewise and each provided on its

top with an outwardly-extending flange L' or N', respectively, over which is passed the open end of the bag, so that the latter hangs downward in the open space J, being supported on the arms L and N.

The movable arm N of each holder is pivoted at its inner end to the arm H. Its outer end is formed into a handle N², adapted to slide on top of a segmental arm O, extending horizontally and supported on the outer end of the arm H. The outer end of the segmental arm L of the adjacent holder is also supported on one end of the said arm O.

From the handle N² of each movable holder-arm N project outwardly two segmental rods P and Q, of which the segmental rod P carries a coil-spring R, which rests with one end against the bearing S, secured on the arm O, and through which passes the rod, the outer end of the latter carrying a collar P', against which presses the outer end of the coil-spring R. The latter has the tendency to draw the movable arm N into an outermost position—that is, away from the fixed arm L. The other rod Q is also provided on its outer end with a collar Q', adapted to abut against the bearing T of the said rod Q, so as to limit the movement of the swinging arm N.

The operation is as follows: In order to place a bag in position, the operator passes the bag into one of the spaces J and turns the open end of the bag over to pass part of the same onto the flange L' of the fixed arm L. The operator then takes hold of the handle N² of the movable arm N and moves the same inward toward the fixed arm L, so as to conveniently place the overlapping end of the bag onto the flange N'. The operator then releases the handle N², so that the spring R draws the arm N outward, thereby tightening the mouth of the bag and securely supporting the same from the fixed and movable arms L and N. The operator can then revolve the frame E on the pivot F and place a bag in the next-following holder in the same manner as above described. When the bags are in position, they can be conveniently filled with grain or other material, the operator rotating the frame E so as to bring the several bags to the place of filling. When one bag is filled and the frame revolved so as to swing

the filled bag away from the place of filling, then the operator presses the handle N² of the arm N inward, so that the mouth of the bag is contracted and the weight of the material
5 in the bag draws the latter downward, thereby completely disengaging the mouth of the bag from the arms L and N.

It will be seen that the device is very simple and durable in construction and supports
10 a number of bags at the same time.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. In a bag-holder, the combination, with a
15 revolving frame having radial arms, of bag-holders carried by the said arms and each consisting of a fixed segmental arm and a pivoted and spring-pressed segmental arm, the fixed arm of each holder being on one ra-
20 dial arm and the pivoted arm on the next ra-

dial arm, substantially as herein shown and described.

2. In a bag-holder, the combination, with a revolving frame having radial arms, of a series of fixed segmental and flanged arms, a
25 series of pivoted segmental and flanged arms, rods projecting from the pivoted arms, and springs surrounding the said rods, substantially as described.

3. A bag-holder comprising a base provided
30 with rollers, a frame consisting of a bottom, vertical posts and radial arms, and fixed segmental arms and pivoted and spring-pressed segmental arms, a fixed and pivoted arm being
35 mounted on each radial arm, substantially as herein shown and described.

JAMES DAVNIE.

Witnesses:

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