

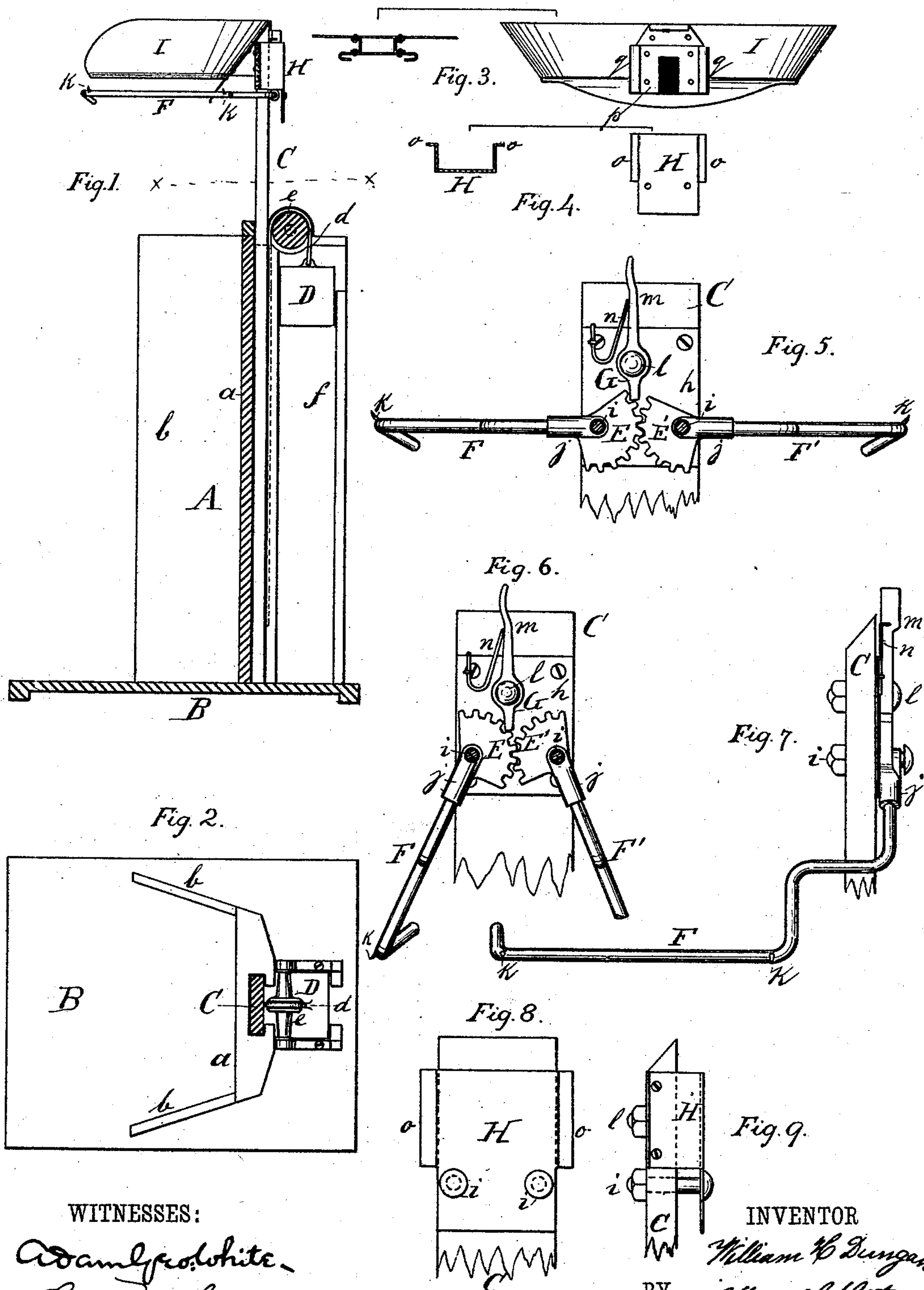
(No Model.)

W. H. DUNGAN.

BAG HOLDER.

No. 286,793.

Patented Oct. 16, 1883.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

WILLIAM H. DUNGAN, OF ROCK LANE, INDIANA.

## BAG-HOLDER.

SPECIFICATION forming part of Letters Patent No. 286,793, dated October 16, 1883.

Application filed July 9, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM H. DUNGAN, a citizen of the United States of America, residing at Rock Lane, in the county of Johnson and State of Indiana, have invented certain new and useful Improvements in Bag-Holders, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to apparatus for holding bags while being filled; and it has for its object to produce a device that is simple and convenient for its purpose.

15 My invention consists of the novel devices and combinations of devices hereinafter described and specifically claimed.

In the drawings, Figure 1 represents a sectional elevation of the bag-holder complete; Fig. 2, a sectional plan of the same, taken on line *x x*, Fig. 1; Fig. 3, a rear elevation of the hopper detached and a section of its coupling-bracket; Fig. 4, an elevation and section of the standard for attaching the hopper, that also forms the casing for the segmental gears of the bag-holder arms; Fig. 5, an elevation of the upper end of the standard, with the bag-holder arms locked in an elevated position, as when holding a bag; Fig. 6, a similar view with the bag-holder arms pending, as after releasing a bag; Fig. 7, an edge view of the upper end of the standard and of one of the bag-holder arms; Fig. 8, a rear elevation of the upper end of the standard, with the casing affixed; and Fig. 9 an edge view of the same.

35 Corresponding letters in the several figures of the drawings designate like parts.

The stand A for the bag-holder is composed of the back *a* and the two sides *b b*, which are so secured together as to be flaring toward the open side, as shown in Fig. 2. This stand is secured upon the base-board B, that extends to the front and rear to provide a steady support for the apparatus. The back *a* of stand A is formed of a thick board that has a T or dove-tail groove cut vertically in its center for guiding the standard C therein. This standard C has one end of a rope or cord, *d*, secured near its bottom end, which is passed over a sheave or grooved pulley, *e*, pivoted between the upper ends of a box, *f*, that is secured against the rear of the back board, *a*, of stand A. A weight, D, is vertically guided in box *f* and is

suspended from the end of rope or cord *d*, to counterbalance the weight of the standard C and its attached hopper and holding-arms, hereinafter described, in such a manner that by raising the standard C the weight D will go down and the standard be sustained by such weight in any elevated position.

Against the rear face of the upper extremity of standard C is secured, by wood-screws, a plate, *h*, and against this plate, near its opposite edges, are pivoted, on bolts *i*, two segmental gears, E E', meshing with each other. Each segmental gear E E' has a socket, *j*, that projects radially from the center. Arms F F' of round iron are secured in these sockets, and by a series of rectangular bends are projected forward, and on these forward portions they are provided with outwardly-projecting barbs K, that will pierce the canvas and hold the bag. Against the center of plate *h*, above the segmental gears E E', is pivotally secured, by a bolt, *l*, a pawl, G, that has an upwardly-projecting handle, *m*, which is pushed with its lower end against the teeth of segmental gear E, by a spring, *n*. By placing the open end of a bag over the arms F F' and then raising such arms, they will expand, hold the bag wide open, and their barbs will pierce the canvas and will point upward to hold the bag suspended, the same as on hooks. By lifting either arm the other arm will be lifted simultaneously by their gear-connection, and the pawl G will slide over the teeth of segment E and prevent such gear from a reverse movement by forming a shoulder against either one of the teeth that is brought under its end. For disconnecting the bag the pawl G, by its projecting handle *m*, is turned away from the teeth of the segment, when the arms F F' are released and will drop by their own gravity to occupy the position shown by Fig. 6, and the barbs, now pointing downward, will loosen their hold on the canvas.

An angular bent plate, H, is secured over the upper end of standard C to inclose the segmental gears E E' and the pivoted portion of pawl G, and the bolts *i* are passed through this plate H for holding it in position. The sides of this plate H extend over the edges of standard C and have outwardly-projecting flanges to their forward edges.

100 The hopper, made of sheet metal. Against the rear side of this hopper is secured, by an-



gle-plates, a plate, *p*, having inwardly-turned lips *q* that fit over the flanges *o* of plate *H*, for detachably securing such hopper in position over the bag-holder arms. The detachable  
 5 hopper may be removed as occasion requires, and the device used without it, if desired. A bag being suspended to arms *F F'*, the lower edges of hopper *I* will extend inside of the bag-opening surface in such a manner that in fill-  
 10 ing a bag no grain will be spilled. After a bag has been suspended from the arms *F F'* the standard *C* is lifted the desired height to suit the length of such bag.

The three-sided stand *A* not only provides  
 15 a convenient sustainer for the bag while being filled, but its shape is such that it will form a strong and durable pedestal for the standard-bar *C* and the bag-holder, while at the same time it facilitates the removing of the bag from  
 20 the open side of such stand after being filled.

By the device shown a bag is quickly and rigidly suspended, and can be readily detached and easily removed from the apparatus after being filled.

25 What I claim is—

1. In a bag-holder, the combination, with the stand, standard, and bag-supporting arms, of a detachable hopper removably secured upon the standard, substantially as set forth.

2. In a bag-holder, the stand *A*, provided 30 with a way for guiding the adjustable standard *C*, and another for the weight *D*, in combination with said adjustable standard, moving in one of the ways, and the weight *D* moving in the other, cord *d*, and pulley *e*, substantially 35 as set forth.

3. In a bag-holder, the combination, with the stand *A*, provided with the flaring sides *b b*, for sustaining the sides of the bag, of the stand- 40 ard *C* and adjustable arms *F F'*, having the gears *E E'*, and holding pawl *G*, engaging directly with the teeth of one gear, substantially as set forth.

4. The bag-holder described, consisting of the three-sided and grooved standard *A*, the 45 vertically - adjustable standard *C*, provided with the hopper *I*, pivoted arms *F F'*, and connecting-gears *E E'*, pulley *e*, weight *D*, and cord *d*, substantially as herein set forth.

In testimony whereof I affix my signature in 50 presence of two witnesses.

WILLIAM H. DUNGAN.

Witnesses:

ADAM GEO. WHITE,  
 LOUIS NOLTING.