

No. 808,355.

J. O. ELLISON.
BAG HOLDER.

PATENTED DEC. 26, 1905.

APPLICATION FILED APR. 10, 1905.

2 SHEETS—SHEET 1.

Fig. 1

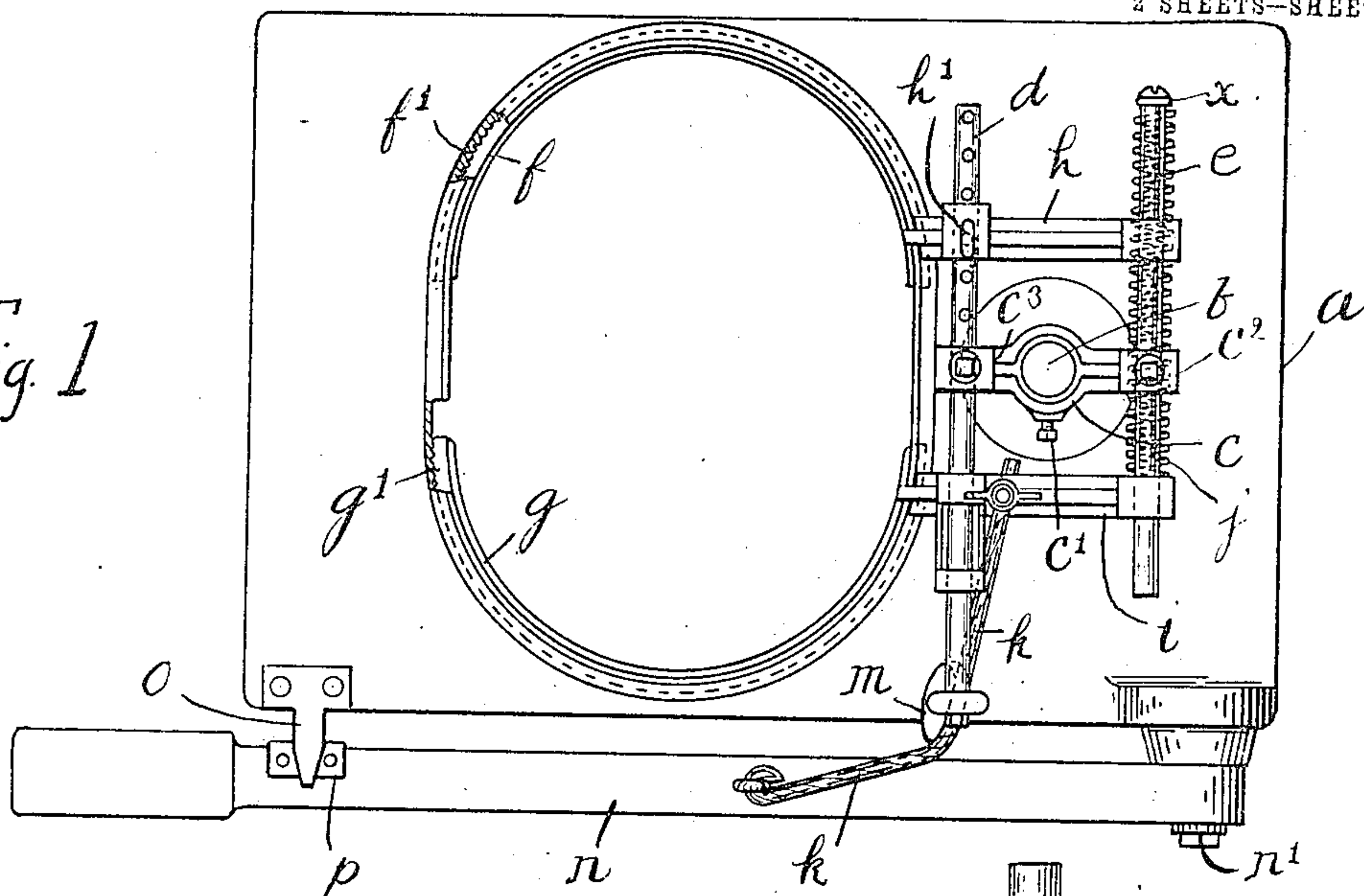
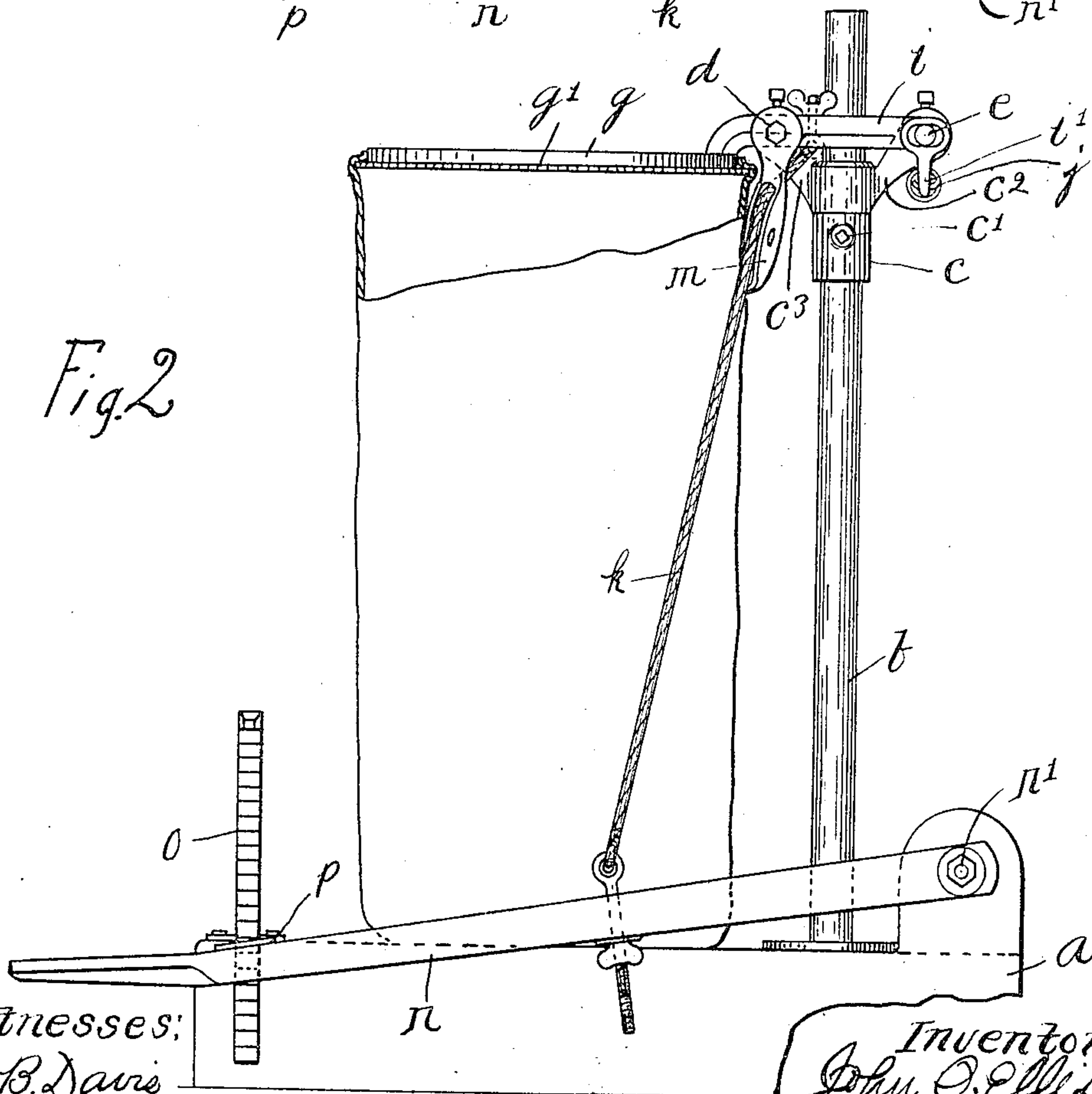


Fig. 2



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Inventor:
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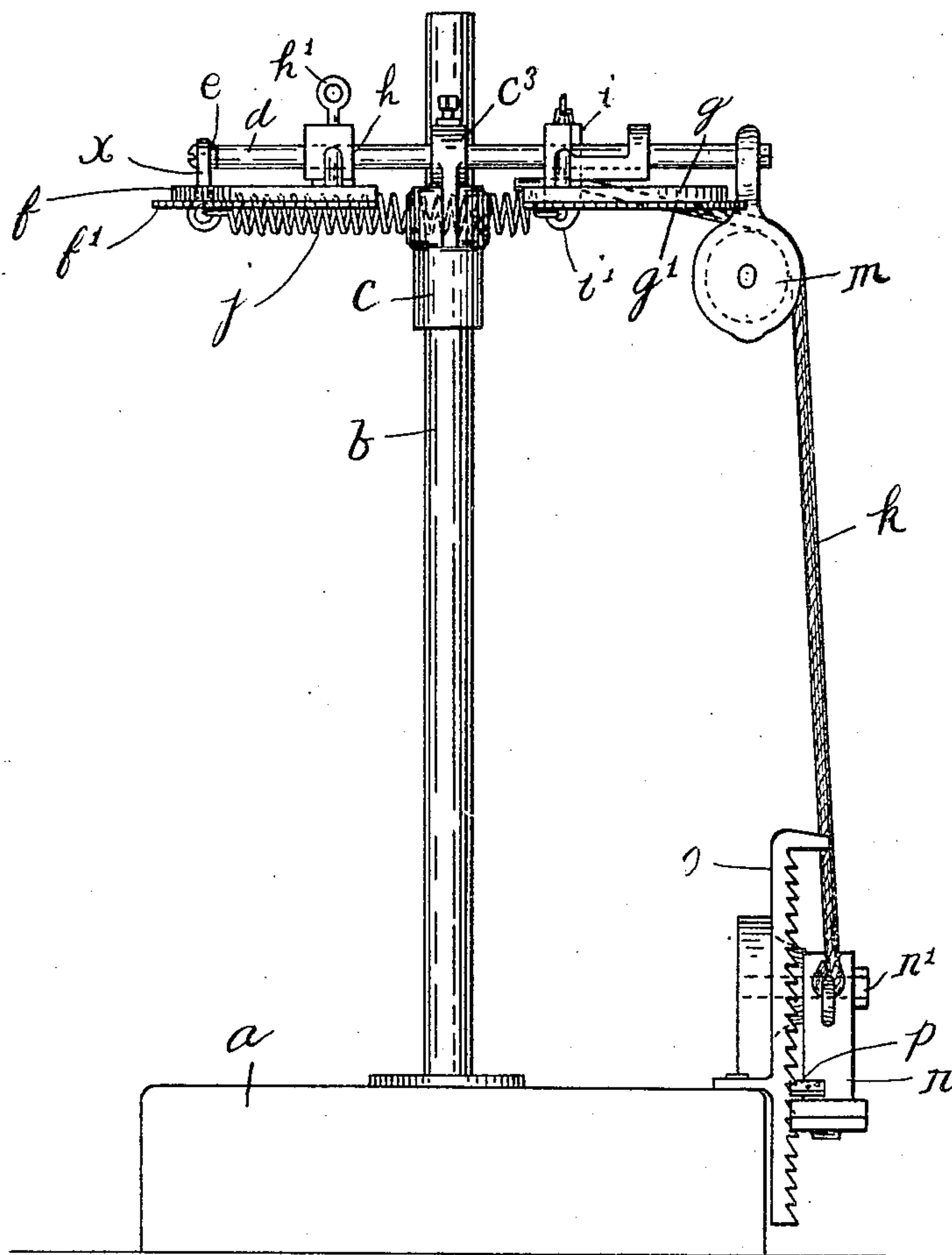


Fig. 3.

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UNITED STATES PATENT OFFICE.

JOHN O. ELLISON, OF HAVERHILL, MASSACHUSETTS.

BAG-HOLDER.

No. 808,355.

Specification of Letters Patent.

Patented Dec. 26, 1905.

Application filed April 10, 1905. Serial No. 254,683.

To all whom it may concern:

Be it known that I, JOHN O. ELLISON, of Haverhill, county of Essex, State of Massachusetts, have invented an Improvement in Bag-Holders, of which the following description, in connection with the accompanying drawings, is a specification, like characters on the drawings representing like parts.

This invention relates to that class of devices which are employed in supporting bags and holding them open, so that they may be filled conveniently with grain or other material.

My invention has for its object to provide a simple form of bag-holder which is adapted to be adjusted to hold securely and conveniently bags of different sizes and which may be readily moved so that the bag-engaging devices will open the mouth of the bag to its full size. I accomplish these objects by the means shown in the accompanying drawings, in which—

Figure 1 is a plan view of my device. Fig. 2 is a side elevation, and Fig. 3 is a front elevation, thereof.

As shown in the drawings, a suitable platform *a* is provided, upon which a vertical standard *b* is mounted. A supporting-collar *c* is slidably mounted on the standard *b* and is adapted to be held thereon at different elevations by means of a set-screw *c'*. The collar *c* is provided with two oppositely-extending arms *c²* *c³*, and two parallel rods *d* and *e* are mounted in said arms and securely clamped therein by any suitable means, said rods extending in opposite directions from the supporting-arms *c²* *c³*.

Two bag-engaging arms *f* and *g* are provided, said arms being semicircularly curved and each being provided with a horizontally-projecting serrated flange *f'* and *g'*, as is common in such devices. The arm *f* is secured to the front end of a supporting-carriage *h*, through which rods *d* and *e* pass at right angles. Said carriage is adapted to be moved to different positions on said rods, and a set-screw *h'* is provided in said carriage for locking the same thereon. The arm *f* is also secured to the front end of a supporting-carriage *i*, which is slidably mounted upon the rods *d* and *e* at the opposite side of the standard *b* from the carriage *h*, and a spring *j* is connected at one end to a bracket *x* on rod *e* and at the other end to a lug *i'* on carriage *i*, said spring acting to draw the latter toward the standard *b*. A cord or cable

k is secured to the carriage *i* and passes over a sheave *m*, which may be conveniently supported on rod *d*, as shown, and extends downwardly and is connected to a foot-lever *n*, which is pivoted at *n'* to the platform. A vertical rack *o* is secured to the platform *a*, and a tooth *p* is secured to the lever *n*, so that when said lever is pressed downwardly it may be held by the rack in different positions.

The manner of using my device is as follows:

The normally locked arm *f* and its supporting-carriage *h* are adjusted on the rods *d* and *e* in a suitable position relative to the standard *b*. The bag is then drawn over the serrated flanges of the arms *f* and *g*, so that they engage the inner surface of the bag near its mouth. The lever *n* is then depressed, drawing the movable arm *g* and its carriage *i* away from the other arm against the action of the spring *j*. The foot-lever is depressed until the bag is stretched as tightly over the arms and is engaged thereby with sufficient force to hold the same without tearing it. If the arms do not engage the bag with sufficient force when the lever is pressed downward to its greatest extent, the carriage *h* may be adjusted away from the standard *b* or the other arm a suitable distance. It will be apparent that arm *f* may be adjusted close to the standard *b*, so that a bag of small size may be supported thereon or may be locked at a considerable distance therefrom, so that a bag of large size may also be supported.

The sliding movement of the movable arm toward and from the normally stationary arm and the sliding adjustment of the latter in the same direction are important features of my invention for the following reasons: The bag is always stretched equally at opposite sides and does not tend to slide on the serrated arms as they are separated, while if the arms were pivoted the tendency would be to stretch the bag tightly in front, while stretching it but little in the rear or adjacent the pivots, thereby tending to cause the bag to slide over the serrations to equalize the tension, with the result that the bag would often be torn. Moreover, if the size of the bag does not correspond to the shape and position of the pivoted arms movement of the latter beyond a certain point to stretch and open the mouth of the bag will tend to cause the front side of the bag to be drawn toward the rear side, while with my arrangement the two sides of the bag are always held a distance apart corresponding to the diametrical

length of the arms. By providing an adjustable arm in combination with a lever for moving the other arm bags of any size within the limits which the device is designed for
5 may be held with any force desired.

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

1. A bag-holder comprising a support,
10 horizontal guide-bars borne by said support, a pair of bag-engaging arms slidably mounted on said bars, said bars engaging said arms at different points to hold them rigidly in a horizontal position, means for locking one of
15 said arms in different positions on said bars, and means for moving the other arm away from the locked arm, substantially as described.

2. A bag-holder comprising a support, a

pair of parallel rods secured to and projecting from each side thereof, a pair of oppositely-disposed bag-engaging arms extending transversely of said rods and each having a supporting-carriage slidably mounted thereon, one of said carriages being normally stationary and having means for locking it in
25 different positions thereon, and lever mechanism for moving the other carriage away from said stationary carriage, substantially as described. 30

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN O. ELLISON.

Witnesses:

L. H. HARRIMAN,
H. B. DAVIS.