

C. SCHREARS.

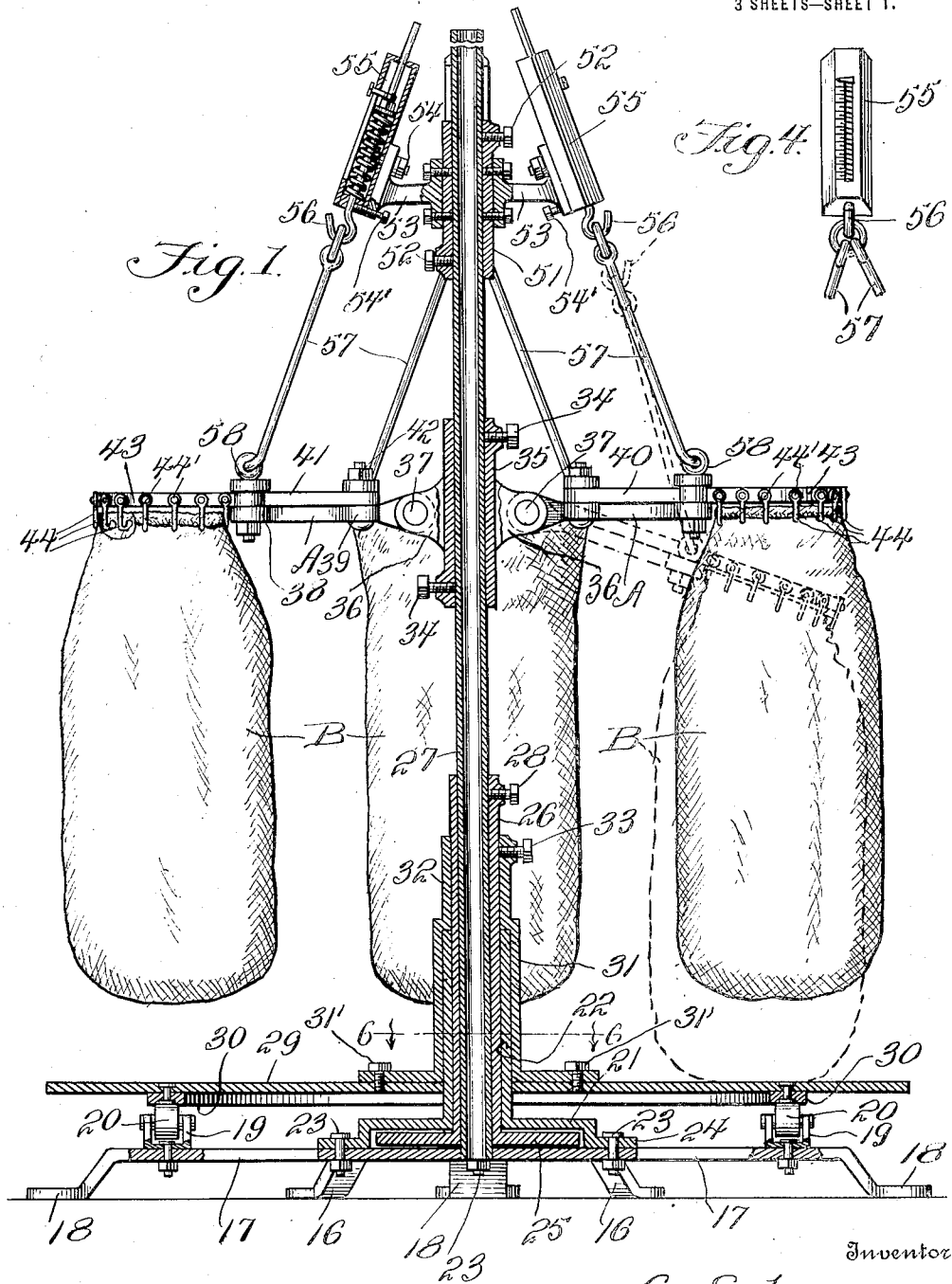
BAG HOLDER.

APPLICATION FILED AUG. 9, 1916.

Patented May 15, 1917.

3 SHEETS—SHEET 1.

1,225,866.



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Witnesses

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BAG HOLDER.

Patented May 15, 1917.

3 SHEETS—SHEET 2.

Fig. 2.

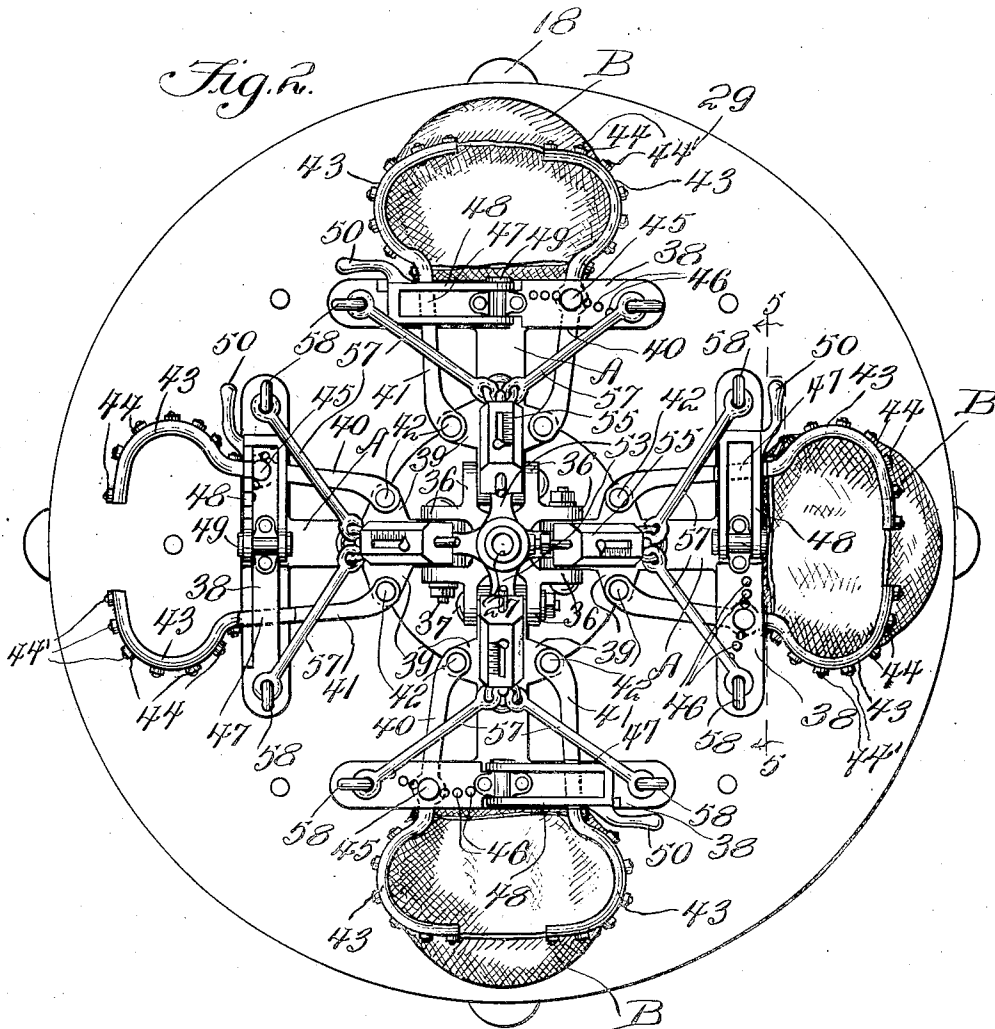
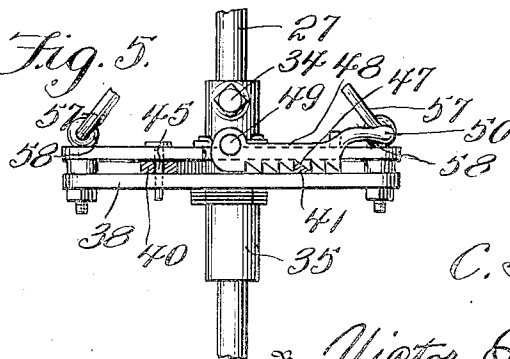


Fig. 5.



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3 SHEETS—SHEET 3.

Fig. 3.

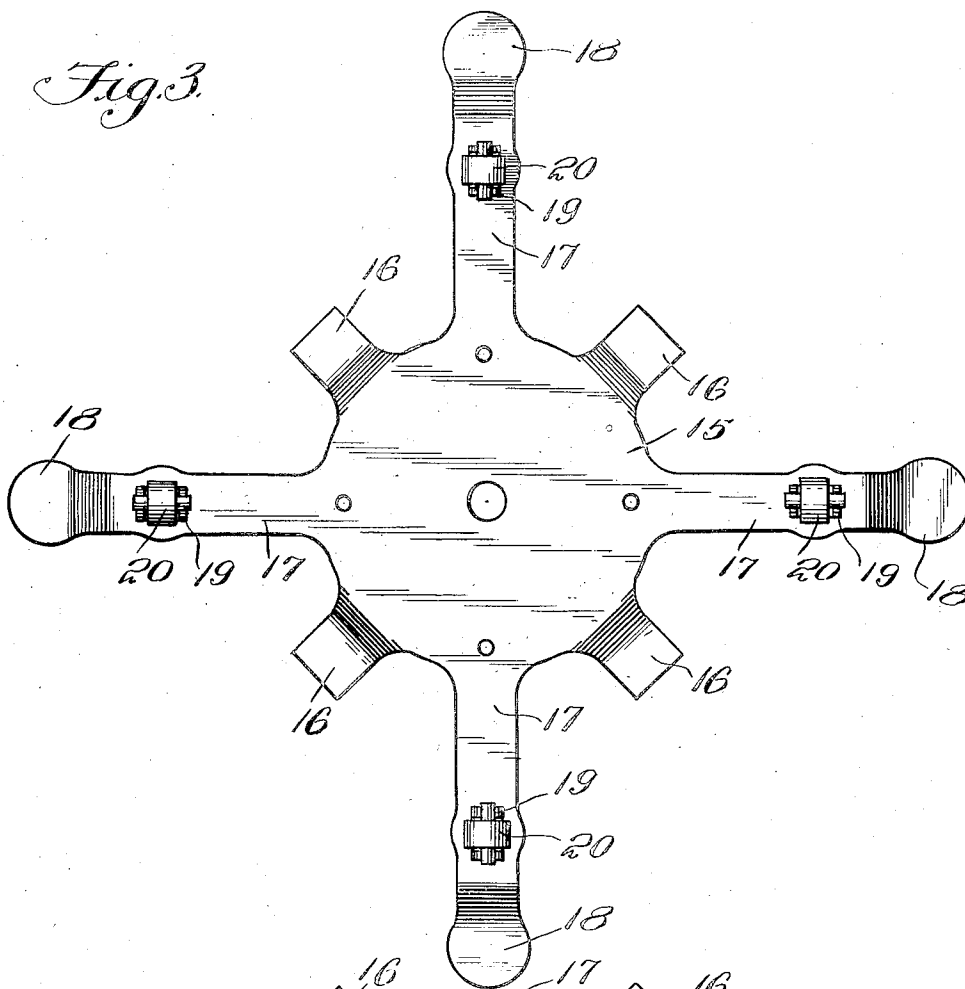
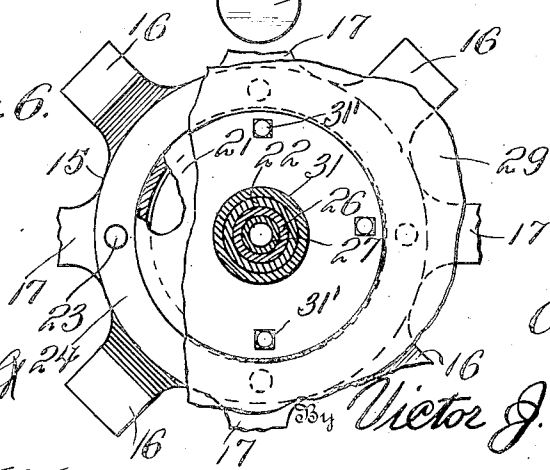


Fig. 6.



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UNITED STATES PATENT OFFICE.

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BAG-HOLDER

1,225,866.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CORNELIUS SCHREARS, a citizen of the United States, residing at Tolna, in the county of Nelson and State of North Dakota, have invented new and useful Improvements in Bag-Holders, of which the following is a specification.

This invention relates to bag holders, and it has for its object to produce a device of this class of simple and improved construction.

A further object of the invention is to produce a rotary bag holding device capable of holding a plurality of bags.

Further objects of the invention are to simplify and improve the construction, arrangement and operation of the detailed parts of the device.

In the accompanying drawings has been illustrated a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the claims may be resorted to when desired.

In the drawings,—

Figure 1 is a vertical sectional view, partly in elevation, of a device constructed in accordance with the invention.

Fig. 2 is a top plan view of the same.

Fig. 3 is a top plan view of the base of the device.

Fig. 4 is a detail view in side elevation of one of the scales or weighing devices.

Fig. 5 is a sectional detail view taken on the line 5—5 in Fig. 2.

Fig. 6 is a sectional detail view taken on the line 6—6 in Fig. 1.

Corresponding parts in the several figures are denoted by like characters of reference.

The base of the improved device consists of a platform 15 having downwardly extending feet 16 at the marginal edge thereof, said platform being also provided with radially extending arms 17 having feet 18 at their outer extremities, thereby providing an extended support possessing great strength and rigidity but of light weight. Mounted on the upper faces of the arms 17 near their outer ends are boxes 19 in which anti-friction wheels 20 are supported for rotation.

A circular housing 21 having an upwardly extending sleeve 22 is mounted on

the platform 15 where it is secured by means of bolts 23 passing through a flange 24 of said housing. The housing 21 contains a disk 25 having an upwardly extending sleeve 26 that extends through the bearing sleeve 22 and which receives a tubular axial shaft 27, the latter being connected with the sleeve 26 by a set screw 28 or other suitable fastening device. The shaft 27 will thus be supported in an upright position and in such a manner as to be capable of rotating within the bearing sleeve 22 extending from the housing 21.

The anti-friction rollers 20 afford a partial support for a revolving platform 29 having a circular track 30 that engages the rollers. Said platform also has an upwardly extending sleeve 31 flanged at its lower end and secured by means of bolts or screws 31', said sleeve being arranged to exteriorly engage the bearing sleeve 22, and said sleeve 31 being provided with an offset 32 that engages the top edge of the bearing sleeve, thereby giving additional support to the revolving platform. The upper end portion of the sleeve 31 has a set screw 33 engaging the sleeve 26 through which the shaft 27 extends, thus enabling the sleeve 26 carrying the shaft and the sleeve 31 carrying the revolving platform 29 to rotate in unison.

Fixed on the shaft 27 by fastening means such as set screws 34 is a slidable collar 35 which may be secured at any desired adjustment. The collar 35 is provided with lugs or ears 36 for the passage of pivot members 37 on which arms A are pivotally mounted; four such arms having been shown, although it is to be understood that the number thereof may be varied. Each arm A is provided at its outer end with a cross bar 38, producing a substantially T-shaped structure, and each of the arms A is provided with laterally extending lugs 39 with which the bag holding supporting members 40, 41 are pivotally connected by rivets or pins 42. The supporting members 40 and 41 are in the main of like or similar construction, each having at its outer end a bag engaging curved or hook-shaped portion 43 which may be equipped with blunt bag engaging hooks 44, the same being secured by means of screws or rivets 44', as best seen in Fig. 1. One of the supporting members 40 has been shown as being capable of being adjustably connected with

the arm or cross bar 38 by means of a pin or bolt 45 engaging one of a plurality of apertures 46; the other arm 41 has a portion which is beveled, as best seen at 47 in Fig. 5, said beveled portion being engaged by a toothed yoke member 48 which is pivotally mounted on the cross bar 38 by a pin 49 and which has a handle 50 whereby it may be manipulated. At the left side of Fig. 2 the toothed yoke member has been shown swung back to a non-engaging position with respect to the supporting member 41.

It will be readily seen that by the simple construction shown and described, a bag, indicated at B, may be securely held by the supporting members 40, 41 with its mouth open to receive grain or other material. The bag holder as shown in the drawings is adapted to support four such bags, thus enabling an empty bag to be quickly swung into receiving position as soon as a bag has been filled, the filled bag being moved to a position where it may be conveniently disengaged from the supporting member and tied or sewed, as may be preferred, to secure its contents.

A second collar 51 which is adjustably mounted on the shaft 27 above the collar 35 by means of a set screw 52 is provided with radially extending arms 53 corresponding in number to the T-shaped arms A. Connected with each arm 53 by means of fastening members 54, 54' is the casing of a spring scale 55 or other convenient weighing apparatus having a spring supported rod or slide 55' provided with a weight supporting hook 56 which is connected by links 57 with eyes 58 on the T-shaped arms A. One of the fastening members, 54', consists of a screw that extends through the casing 55 in engagement with the slide 55', which latter may thereby be secured when desired. By this simple appliance it will be evident that the amount of load placed in the bags may be indicated on the scales, thus enabling a determined quantity to be placed in each bag or enabling the weight of the contents of each bag to be ascertained without subsequent weighing. It will also be seen that the slides of the scales may be secured against movement when desired. The bags when filled may be partially supported on the revolving platform 29. Even if it is not desired to ascertain the weight of material placed in each bag, the spring support afforded by the scales is important to permit the gradual sagging of the bags as they are

being filled, thereby avoiding excessive strain on the supporting members 40, 41 and also avoiding undue wear and tear on the bags.

From the foregoing description taken in connection with the drawings, hereto annexed, the operation and advantages of this invention will be readily understood. The construction of the improved device is simple and inexpensive, and it will afford a convenient means for supporting and weighing bags that are being filled with grain or other material.

Having thus described the invention, what is claimed as new, is:—

1. In a device of the class described, an upright shaft supported for rotation, a collar fixed adjustably on the shaft, T-shaped arms pivotally connected with the collar, said arms including cross bars at their outer ends, bag holding elements pivoted on the arms, a second collar fixed adjustably on the shaft above the first mentioned collar and having radially extending arms, casings connected with said arms, springs within the casings, hook members supported by the springs, and links connecting the hook members with the arms connected pivotally with the first mentioned collar.

2. In a device of the class described, an upright shaft supported for rotation, a collar fixed adjustably on the shaft, T-shaped arms pivotally connected with the collar, said arms including cross bars at their outer ends, bag holding elements pivoted on the arms, a second collar fixed adjustably on the shaft above the first mentioned collar and having radially extending arms, casings connected with said arms, springs within the casings, hook members supported by the springs, and links connecting the hook members with the arms connected pivotally with the first mentioned collar; in combination with a platform connected with the upright shaft and revoluble therewith.

3. In a device of the class described, an upright shaft supported for rotation, a collar fixed adjustably on said shaft, an arm pivotally connected with said collar, said arm having a cross bar at its outer end, bag holding elements pivotally connected with the arm, a bolt or pin connecting one of the elements adjustably with the cross bar, and a ratchet member pivoted on the arm and adapted to engage the other bag holding element.

In testimony whereof I affix my signature.
CORNELIUS SCHREARS.