

Nov. 18, 1924.

1,516,451

D. MCKENZIE

BAG HOLDER

Filed Dec. 11, 1923

2 Sheets-Sheet 1

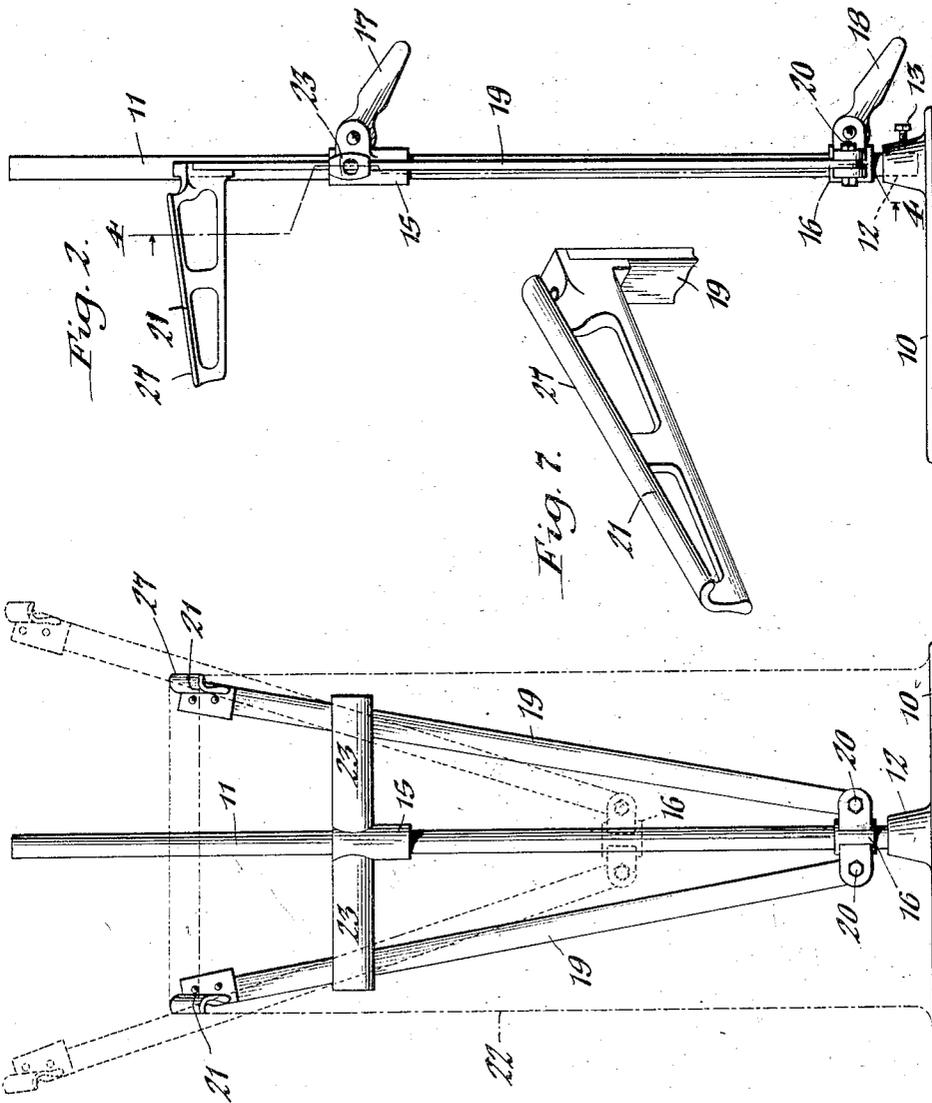


Fig. 1.

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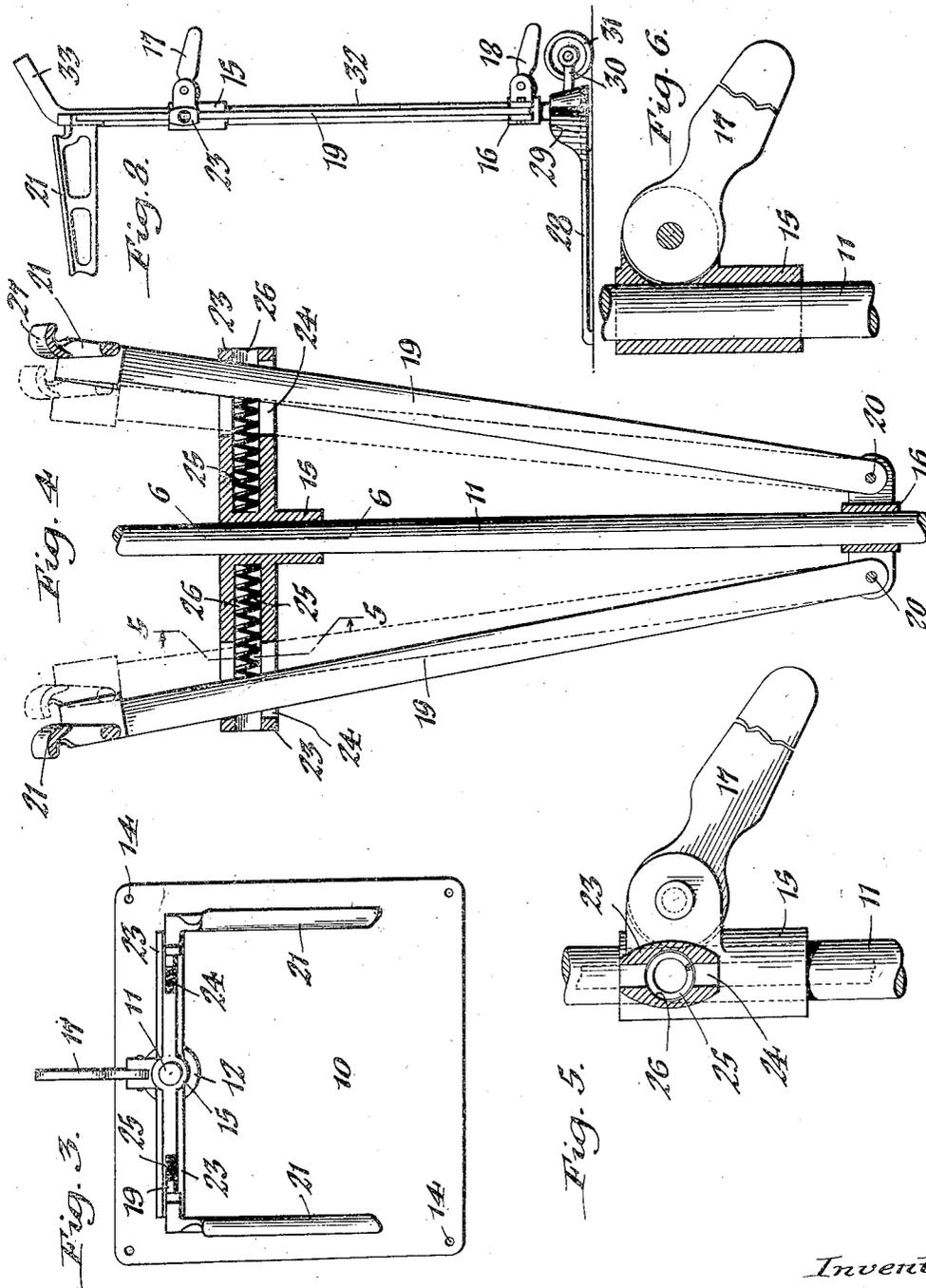
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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE.

DANIEL MCKENZIE, OF GUELPH, CANADA.

BAG HOLDER.

Application filed December 11, 1923. Serial No. 679,920.

To all whom it may concern:

Be it known that I, DANIEL MCKENZIE, a citizen of Canada, residing at Guelph, in the county of Wellington and Dominion of Canada, have invented new and useful Improvements in Bag Holders, of which the following is a specification.

This invention relates to a sack or bag-holder of the type which is intended for supporting bags in an open position while being filled.

One of its objects is to provide a portable device of this character which is adjustable to fit different-sized bags or like receptacles which vary in depth and width.

Another object of the invention is to provide a simple and inexpensive bag-holder which is strong and durable in construction, and which is easily operated and adjusted.

In the accompanying drawings: Figure 1 is a front view of a bag-holder embodying my invention. Figure 2 is a side view thereof. Figure 3 is a top plan view of the same. Figure 4 is an enlarged fragmentary vertical section on line 4-4, Fig. 2. Figures 5 and 6 are enlarged fragmentary transverse sections on the correspondingly numbered lines in Fig. 4. Figure 7 is a detail perspective view of one of the bag-holding brackets and its supporting arm. Figure 8 is a side elevation of a modified form of the improvement.

Similar characters of reference indicate corresponding parts throughout the several views.

In the embodiment of the invention shown in Figs. 1-7, inclusive, the improved bag-holder comprises a portable base or bag-rest 10 to the rear side of which is fastened an upright post or standard 11 seated at its lower end in a socket 12 and held in a fixed position therein by a set screw 13 or other suitable means. If desired, this base may be provided with bolt holes 14, for the purpose of securing it in a permanent position, but it is preferably unfastened, so that the device may be readily carried to any location to suit working conditions.

Adjustably mounted on the standard 11 to slide lengthwise thereof or to turn relatively thereto, are upper and lower heads or guides 15, 16, respectively, which may be provided with cam levers 17, 18, or other appropriate means for locking them in a set position on said standard. To the opposite sides of the lower head 16 are pivoted substantially up-

right bag-holding arms 19 fulcrumed at 20 to swing in a vertical plane toward and from each other. The upper ends of these arms are provided with forwardly-extending brackets 21 of substantially hook-shaped form in cross section, with which the mouth of the bag 22 is adapted to engage. Extending from opposite sides of the upper head 15 are substantially horizontal extensions 23 provided near their outer ends with vertical slots 24 through which the arms 19 extend, as shown in Fig. 4. These slots are of sufficient length to permit a slight idle movement of the arms relative to such extensions to permit said arms to be manually contracted for the purpose of applying and removing the bags to and from the brackets 21. Coil springs 25 housed in openings 26 formed in the head-extensions 23 tend constantly to urge the bag-holding arms outwardly to the corresponding ends of the slots, as shown by full lines in Figs. 1 and 2, in which position the mouth of the bag is stretched taut and held open with its marginal edges engaging the hook-shaped brackets 21.

As shown in Figs. 1 and 7, the top edges 27 of the bag-supporting brackets slope forwardly so as to bring the back end of the bag-mouth higher than its front end, thereby avoiding spilling material over the back of the bag during filling operations.

By loosening the cam levers 17, 18, the respective heads 15, 16, together with the bag-holding arms can be raised or lowered on the standard 11 and properly set to suit the length of the bag to be filled, the brackets 21 being so located that the bottom of the bag will rest upon the base 10. In order to contract or expand the arms to suit bags of different widths, the upper head 15 is correspondingly raised or lowered relatively to the lower head 16 without changing the height of the arms. Likewise, when it is desired to adjust the device to suit bags which are larger as regards both their depth and width, the lower head is raised toward the relatively fixed upper head 15, which movement results in simultaneously raising and expanding the bag-holding arms to the position shown by dotted lines in Fig. 1.

In applying a bag to the brackets 21, their arms are compressed or drawn toward each other to the position shown by dotted lines in Fig. 4, so as to permit of readily attaching the mouth of the bag to the hooked upper sides of said brackets, whereupon the

arms are released and returned to their initial position by the springs 26, thereby tightly and firmly securing the bag in place ready for filling purposes.

5 Should it be desired to turn the bag-holding arms and their heads on the standard 11, this can be easily effected by loosening the cam levers 17, 18 and turning the parts to the position desired.

10 In the modification of the device illustrated in Fig. 8, the base or platform 28 is provided at its rear side with an upright flange 29 from which extend a pair of bearings 30 in which are journaled wheels or

15 rollers 31 for facilitating the moving of the bag-holder from one place to another. The standard 32, upon which the heads 15, 16 and associated parts are mounted, terminates at its upper end in a rearwardly-extending handle 33. The position of the

20 wheels 31 is such that the platform assumes a substantially horizontal position at rest, it being necessary to tilt the device rearwardly when moving it about.

25 I claim as my invention:

1. A bag-holder, comprising a standard, upper and lower guide heads adjustable lengthwise of said standard, bag holding arms arranged on opposite sides of said 30 standard and fulcrumed at their lower ends on said lower head, the upper ends of said arms being guided directly on said upper head for lateral and longitudinal movement relative thereto, and means within said head and contacting with said arms for extending 35 them to their expanded position.

2. A bag-holder, comprising a standard, upper and lower guide heads adjustable lengthwise of said standard, said upper 40 head having vertical slots near its opposite

ends, bag-holding arms arranged on opposite sides of said standard and fulcrumed at their lower ends on said lower guide head, the upper ends of said arms passing through said slots, and coil springs applied 45 to said upper head and engaging said arms for normally retaining them in their expanded position.

3. A bag-holder, comprising a standard, upper and lower guide heads adjustable 50 lengthwise of said standard, said upper head having substantially horizontal extensions on its opposite sides provided near their outer ends with vertical slots, bag-holding arms arranged on opposite sides of said 55 standard and fulcrumed at their lower ends on said lower guide head, the upper ends of said arms passing through said slots, and coil springs housed within said extensions and bearing at their outer ends against 60 said arms.

4. A bag-holder, comprising a standard, upper and lower guide heads adjustable lengthwise independently of each other on 65 said standard, means for locking said heads in a set position on the standard, bag-holding arms arranged on opposite sides of said standard and fulcrumed at their lower ends on said lower guide head, said upper head 70 having substantially horizontal extensions on its opposite sides provided near their outer ends with vertical slots, the upper portions of said arms engaging said slots, and resilient means engaging said arms and tending normally to move them to their expanded position, said slots being of sufficient 75 length to permit said arms to be contracted without adjustment of said guide heads.

DANIEL McKENZIE.