No. 608,638. Patented Aug. 9, 1898.

# N. F. BECKER.

## BAG HOLDER.

(Application filed Mar. 1, 1897.)

(No Model.)

FIG. 1

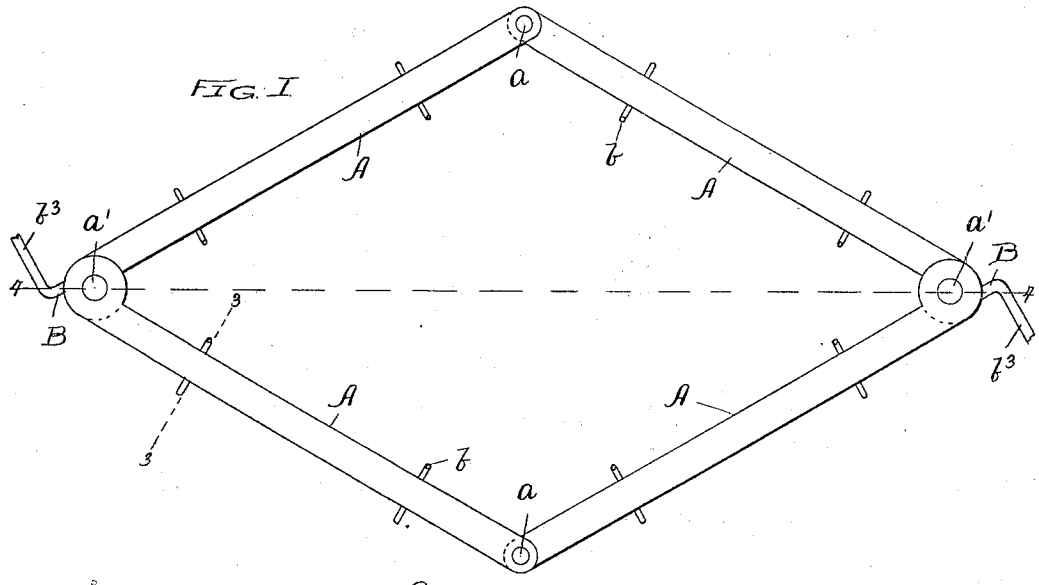



FIG. 2

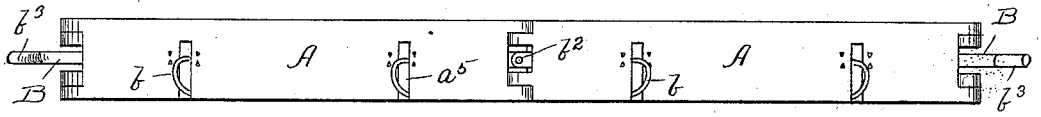



FIG. 3.

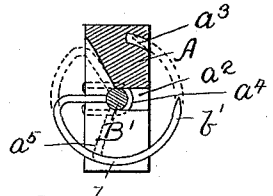



FIG. 4.

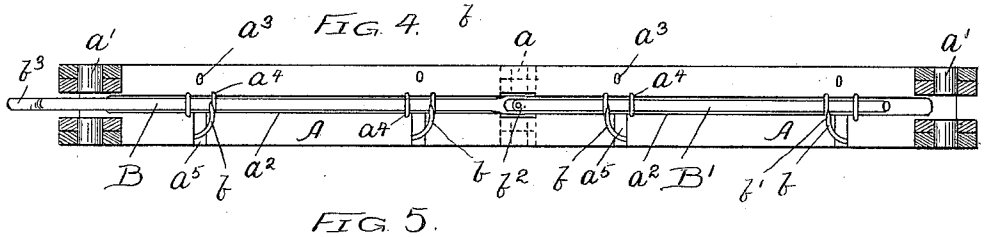
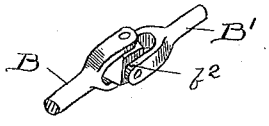



FIG. 5.




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# UNITED STATES PATENT OFFICE.

NICHOLAS F. BECKER, OF CINCINNATI, OHIO, ASSIGNOR TO CHARLES DICKINSON, OF CHICAGO, ILLINOIS.

## BAG-HOLDER.

SPECIFICATION forming part of Letters Patent No. 608,638, dated August 9, 1898.

Application filed March 1, 1897. Serial No. 625,655. (No model.)

*To all whom it may concern:*

Be it known that I, NICHOLAS F. BECKER, a citizen of the United States, residing in Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in Bag-Holders, of which the following is a specification.

My invention relates to sack or bag holders.

The object of my invention is to provide a device of a simple, efficient, and durable construction for holding sacks or bags open or closed while they are being filled or sewed.

To this end my invention consists, in connection with a number of opening and closing holder-bars hinged together at their meeting ends, of hook-carrying rotatable rods or shafts mounted in said bars and connected together in pairs by a gimbal joint or coupling at the hinge of the bars, so that both the hook-bearing rods or shafts thus coupled may be simultaneously rotated the one from the other without interfering with the free opening and closing movements of the holder-bars.

It also consists in the particular construction of the rotatable sack-holding hooks, whereby their free ends or points are made to shut within suitable holes or openings in the holder-bars, so as to firmly hold the bag without danger of its slipping off the hook or becoming disengaged therefrom, and whereby also the hooks are positively withdrawn from the bag when it is desired to release the bag from the holder.

It also consists in the novel construction of parts and devices and in the novel combinations of parts and devices herein shown and described, and specified in the claims.

In the accompanying drawings, forming a part of this specification, Figure 1 is a plan view of a device embodying my invention. Fig. 2 is a side elevation. Fig. 3 is a cross-section on line 3 3 of Fig. 1. Fig. 4 is a longitudinal section on line 4 4 of Fig. 1, and Fig. 5 is a detail view showing the joint uniting the hook-carrying rods.

In the drawings the same letters of reference designate the same parts in the several figures.

In the drawings, A A represent the holder-bars, the same being preferably four in number and hinged together at their meeting ends by suitable pivots $a$ $a$ and $a'$ $a'$.

B B′ and B B′ are rods or shafts mounted in suitable grooves or recesses $a^2$ $a^2$ in the bars A, and provided with bag-holding hooks $b$, fixed thereto. The hooks $b$ are curved, so that their free ends or points $b'$ may enter suitable holes $a^3$ in the holder-bars A when the hook-carrying rods are turned to close the hooks. This prevents any possibility of the bag slipping off the hook. The hook rods or shafts B B′ are connected together at their meeting ends at the pivots or hinges $a$ $a$ by a gimbal joint or coupling $b^2$, so that the rods B B′ may be rotated together one by the other at whatever angle the rods B B′ may be in to each other and without interfering with the opening and closing movements of the holder-bars A A, upon which the rods or shafts B B′ are mounted or journaled. To keep the hook rods or shafts B B′ in place in the longitudinal grooves or recesses $a^2$ in the bars A, I provide said bars with staples, loops, or bearings $a^4$, embracing said rods or shafts. The bars A A are also furnished with transverse recesses $a^5$ to accommodate the curved hooks $b$ on the rods or shafts B and permit said hooks to have the necessary rotary or swinging movements. One of the hook-carrying shafts or rods of each pair B B′ and B B′ is furnished with an arm $b^3$ or other suitable means for rotating the rods or shafts to open or close the hooks. As illustrated in the drawings, each pair of rods is designed to be rotated by hand; but it will be understood by those skilled in the art that suitable mechanism may be added, if desired, for turning these rods or shafts automatically.

In operation, the holder being open, as illustrated in Fig. 1, the mouth of the sack or bag is hung upon the hooks $b$ $b$. The hook-shafts are then rotated, closing the free ends or points of the hooks into the holes $a^3$, as illustrated in Fig. 3, thus preventing the sack from becoming disengaged from the hooks during the filling and packing or shaking operations. The holder may then be closed and the mouth of the sack sewed by hand or by suitable mechanism. As illustrated in the drawings, the holder is designed to be opened and closed by hand; but it may be

opened and closed automatically, if desired, by suitable mechanism for this purpose. After the sack has been sewed the hook-carrying shafts are rotated in the opposite direction into the position illustrated, thus withdrawing the hooks from the sack. By this reverse rotation of the hook-bearing shafts the points of the hooks are positively withdrawn from the sack as said points retreat within or back of the inner surface of the holder.

The pivots *a a* of the bars A A at the gimbal-joint $b^2$ of the rods or shafts B B′, it will be observed, are made in two sections, an upper and lower one, so as to leave an open space in the middle, and thus prevent the pivot *a a* from interfering with the rotary movement of the gimbal-joint $b^2$ and of the rods B B′.

I claim—

1. In a sack-holder, the combination with a number of opening and closing holder-bars hinged together at their meeting ends, of rotatable hook-carrying rods or shafts connected together by a gimbal joint or coupling at one of the hinges of said bars to cause said rods or shafts to rotate one with and by the other and enable said bars to turn on said hinge, substantially as specified.

2. In a sack-holder, the combination with a number of opening and closing holder-bars hinged together at their meeting ends, of rotatable hook-carrying rods or shafts connected together by a gimbal joint or coupling at one of the hinges of said bars to cause said rods or shafts to rotate one with and by the other and enable said bars to turn on said hinge, one of said bars or shafts being provided with means for rotating it, substantially as specified.

3. In a sack-holder, the combination with a number of opening and closing holder-bars hinged together at their meeting ends, of rotatable hook-carrying rods or shafts connected together by a gimbal joint or coupling at one of the hinges of said bars to cause said rods to rotate one with and by the other and enable said bars to turn on said hinge, the hooks on said rods or shafts being curved, and said bars having holes or recesses to receive the free ends or points of said hooks when closed to prevent disengagement of the sack therefrom, substantially as specified.

4. In a sack-holder having opening and closing hinged bars, the combination with one of said bars, of a rotatable shaft or rod mounted thereon and provided with a curved hook, the free end or point of which is adapted to close in or against the bar to prevent disengagement of the sack therefrom, said bar having transverse recesses to accommodate the hooks, and a longitudinal recess to receive said rod or shaft, substantially as specified.

5. In a sack-holder, the combination with hinged bars A, of rotatable shafts or rods B B′ connected together at their meeting ends by a gimbal-joint, the hinge-pivot of said bars at said gimbal-joint being divided into an upper and lower section so that the pivot of the bars will not interfere with the rotation of said gimbal-joint, substantially as specified.

6. In a sack-holder, the combination with hinged bars A, A, A, A, of rotary rods or shafts B B′, B, B′ connected together in pairs by gimbals at their meeting ends, and provided with sack-holding hooks, substantially as specified.

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