No. 791,472. PATENTED JUNE 6, 1905.

E. KAISER.

BAG FILLING DEVICE.

APPLICATION FILED APR. 18, 1904.

Fig. 1.

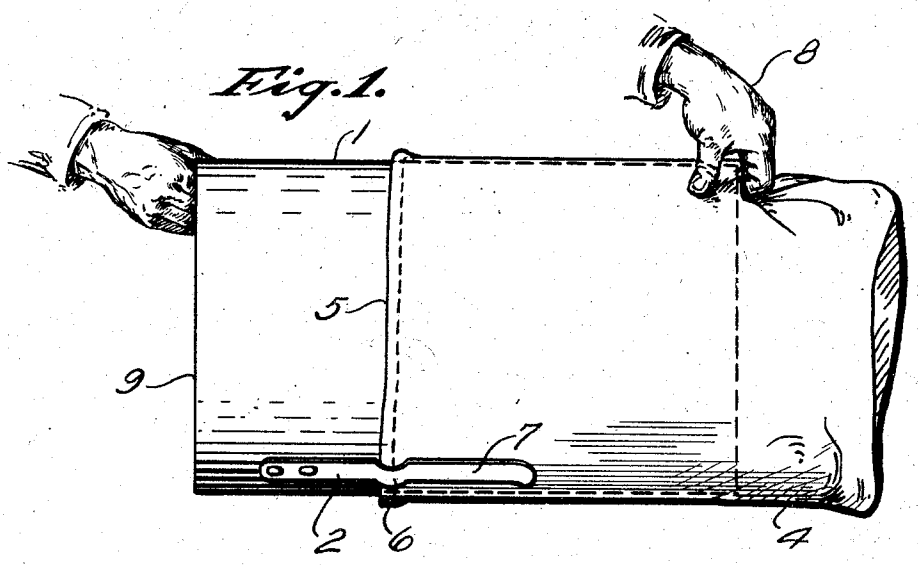


Fig. 2.

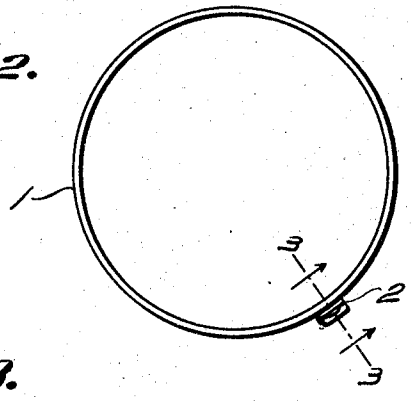
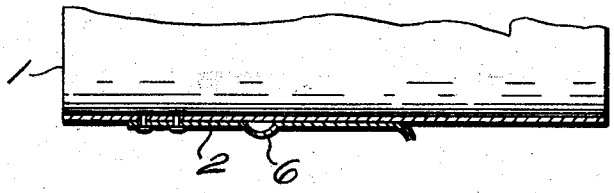


Fig. 3.



Witnesses:
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No. 791,472. Patented June 6, 1905.

UNITED STATES PATENT OFFICE.

ERNST KAISER, OF LONE GROVE TOWNSHIP, FAYETTE COUNTY, ILLINOIS.

BAG-FILLING DEVICE.

SPECIFICATION forming part of Letters Patent No. 791,472, dated June 6, 1905.

Application filed April 18, 1904. Serial No. 203,771.

To all whom it may concern:

Be it known that I, ERNST KAISER, a citizen of the United States of America, and a resident of Lone Grove township, in the county of Fayette and State of Illinois, have invented certain new and useful Improvements in Bag-Filling Devices, of which the following is a specification.

The main object of my invention is to provide improved means for filling bags and sacks and to avoid the necessity of securing the bag in an upright position and lifting all of the material that is placed within the bag to the full height of such bag, thereby saving much labor and time in this class of work. I accomplish this object by the device shown in the accompanying drawings, in which—

Figure 1 is a side elevation of a bag-filling device constructed according to my invention, showing the bag secured to the same and indicating the way in which the same is handled by the operator. Fig. 2 is an end elevation of the same with the bag removed. Fig. 3 is a longitudinal section on the line 3 3 of Fig. 2, partly broken away, showing the structure of the spring-clip for securing the bag.

The device shown consists of a substantially cylindrical tubular scoop member 1, preferably constructed of sheet metal and having riveted thereon a longitudinally-disposed spring-clip 2. The scoop member 1 is adapted to be placed within the open end of a bag 4, one part of the edge or hem 5 of the mouth of the bag being securely held in position by the clip 2. The clip 2 is preferably offset at 6 to receive the hem or folded edge of the bag, and the free end 7 of the clip is suitably formed to lie flat against and bear upon the side of the bag for a considerable distance beyond said hem. The scoop and bag are now gripped by the hands of the operator, as indicated in Fig. 1, and together used as a scoop for filling the bag. The operator's hand 8, which is at the rear end of the scoop 1, grips the scoop and bag at a point opposite the spring-clip 2 and serves to assist the spring-clip in securing the bag in position. It will be readily seen that the scoop need not fill the entire interior of the bag and that one scoop will serve for bags ranging considerably in size.

It is found in practice that with a scoop constructed according to my invention an operator can accomplish an amount of useful work greatly in excess of what the same operator could do when filling similar bags with a shovel. In the latter case it is usually necessary to have an assistant or some mechanical device for holding the bag open in an upright position, and then all of the material which is filled into the bag must be raised by means of a shovel to the full height of the bag. With a device constructed according to my invention it is merely necessary to swing the scoop into a pile of material and then raise the forward end 9 of the member 1, allowing the material to flow into the bag. One or two of such operations are sufficient to fill bags of the usual sizes, and the operator requires no outside assistance whatever. Other features of the operation of the device shown will be apparent from the foregoing description.

It will be readily seen that the expenditure of energy for filling a bag with a device constructed according to my invention is much less than is the case where the material must be filled into the bag with a shovel.

It will be seen that some of the details of the construction shown may be altered without departing from the spirit of my invention.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A device of the class described comprising a cylindrical tubular member having ends at right angles to the sides thereof, said member being of uniform size throughout, and a flat spring-clip attached on the exterior of said member near one end and with its free end extending toward the other end, said clip having an offset intermediate its ends to receive the hem of the bag.

2. A device of the class described, comprising the tubular member 1 said tubular member being of uniform diameter throughout and formed with both ends at right angles to the sides thereof and adapted to be passed into the open end of a bag, a spring-clip 2 secured on

the outside of said member and adapted to extend over the edge of the open end of the bag, the spring having an offset adapted to receive the hem of the bag, and said spring being extended beyond the offset and being adapted to bear on the bag for a considerable distance below the hem, said member with bag attached being adapted to be grasped by the hands of the operator and used as a scoop for filling the bag, substantially as described.

Signed at Vernon this 11th day of April, 1904.

ERNST KAISER.

Witnesses:
J. H. TORBECK,
CHRIST TORBECK.