(No Model.)

J. BEAZLEY.

CASTER.

No. 453,956. Patented June 9, 1891.

Fig. 1.

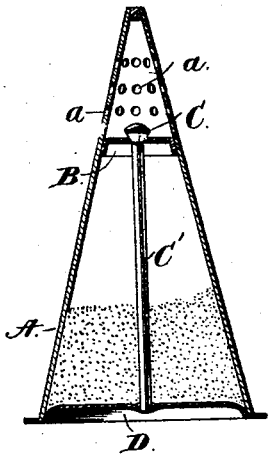


Fig. 2.

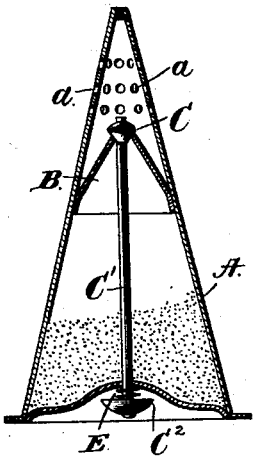
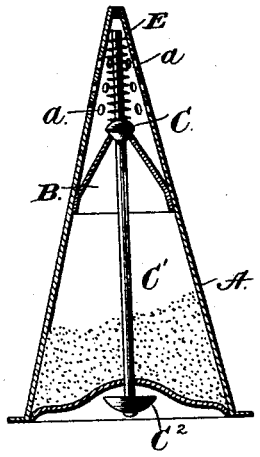


Fig. 3.



Witnesses:
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UNITED STATES PATENT OFFICE.

JOHN BEAZLEY, OF NEW BARNET, ENGLAND.

CASTER.

SPECIFICATION forming part of Letters Patent No. 453,956, dated June 9, 1891.

Application filed September 17, 1890. Serial No. 365,208. (No model) Patented in England December 13, 1889, No. 20,075; in Belgium September 13, 1890, No. 91,986; in France September 13, 1890, No. 208,215; in Italy September 29, 1890, LV, in Cape of Good Hope October 4, 1890, No. 634; in Victoria October 9, 1890, No. 8,147; in Natal October 9, 1890; in South tralia October 10, 1890, No. 1,752; in Spain November 13, 1890, No. 11,254, and in Canada November 19, 1890, No. 35,448.

To all whom it may concern:

Be it known that I, JOHN BEAZLEY, a citizen of England, residing at Tavistock Villa, Station Road, New Barnet, in the county of Herts, England, have invented new and useful Improvements in Casters or Receptacles for Pepper and other Pulverulent Materials, (for which I have obtained patents in Great Britain, dated December 13, 1889, No. 20,075; in Victoria, dated October 9, 1890, No. 8,147; in South Australia, dated October 10, 1890, No. 1,752; in Canada, dated November 19, 1890, No. 35,448; in Belgium, dated September 13, 1890, No. 91,986; in Cape of Good Hope, dated October 4, 1890, No. 634; in France, dated September 13, 1890, No. 208,215; in Italy, dated September 29, 1890, Vol. LV, 267; in Natal, dated October 9, 1890, and in Spain, dated November 13, 1890, No. 11,254,) of which the following is a specification.

The object of this invention is to provide a novel, simple, and economical caster, which will prevent the escape of the volatile constituents of ground pepper and other pulverulent material therein contained, while permitting such material to be readily discharged through the perforated end of the caster.

To accomplish this object my invention involves the combination or arrangement of devices and the principles of operation hereinafter described and claimed, reference being made to the accompanying drawings, in which—

Figure 1 is a vertical central sectional view of a caster constructed in accordance with my invention. Fig. 2 is a similar view showing a modification, and Fig. 3 is a similar view showing another modification.

In order to enable those skilled in the art to make and use my invention, I will now describe the same in detail, referring to the drawings, wherein—

The letter A indicates a conical metallic case or receptacle, the upper end of which is perforated, as at *a*, for the escape of the ground pepper or other pulverulent material. The case or receptacle is provided at a point below the perforations with the rigidly-attached immovable diaphragm or partition-plate B, having a central orifice, which is adapted to be opened and closed through the medium of a conical valve C, in such manner that when the valve is seated the ground pepper or other pulverulent material is confined within the case or receptacle between its bottom wall D and the movable diaphragm or partition-plate B.

The bottom wall of the case or receptacle is elastic, and is so constructed that when pressed inwardly it will by its resiliency spring back and resume its normal position of rest. The elastic bottom wall is connected with the conical valve by means of a rigid stem C′, so that when the bottom wall is pressed inward the conical valve is moved away from its seat, and the orifice in the movable diaphragm or partition-plate D is unclosed for the passage of the pulverulent material to the discharge perforations *a* when the case or receptacle is inverted.

In the modification illustrated by Fig. 2 the bottom wall of the case or receptacle A may be rigid, while the stem C′ projects through the bottom wall and is provided with a finger-piece or button C^2, between which and the bottom wall of the case or receptacle is arranged the spiral or other suitable spring E, so that by pressing on the finger-piece or button the stem is moved lengthwise, and the conical valve C is thereby moved from its seat for the purpose of unclosing the central orifice in the movable diaphragm or partition-plate B. Instead of placing the spring E between the finger-piece or button C^2 and the bottom of the case or receptacle A, the spring may be arranged upon an extension of the stem C′ at a point above the valve C, as illustrated in the modification Fig. 3.

Having thus described my invention, what I claim is—

1. A caster for ground pepper and other pulverulent material, consisting of a conical case or receptacle having its small end provided with perforations *a*, a transverse diaphragm or partition B, fixed immovably in the case or receptacle at a point below the perforated portion thereof and provided with a central orifice, and a valve C, seating on

the top portion of the movable diaphragm and having a rigid spring-impelled stem C′, by which to move the valve away from its seat, substantially as described.

2. A caster for ground pepper and other pulverulent material, consisting of a conical case or receptacle A, having its small end portion perforated, and provided with a transverse diaphragm or partition-plate B immovably fixed in position at a point below the perforated portion of the case or receptacle and provided with a central orifice, an elastic bottom wall D to the case or receptacle, and a conical valve seating in the central orifice of the diaphragm or partition-plate and having a rigid stem C′ connected with the elastic bottom wall, substantially as described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 4th day of September, A. D. 1890.

JOHN BEAZLEY.

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