C. C. Van Deusen,

Bee Feeder.

No. 105,144. Patented July 5. 1870.

Fig. 4.

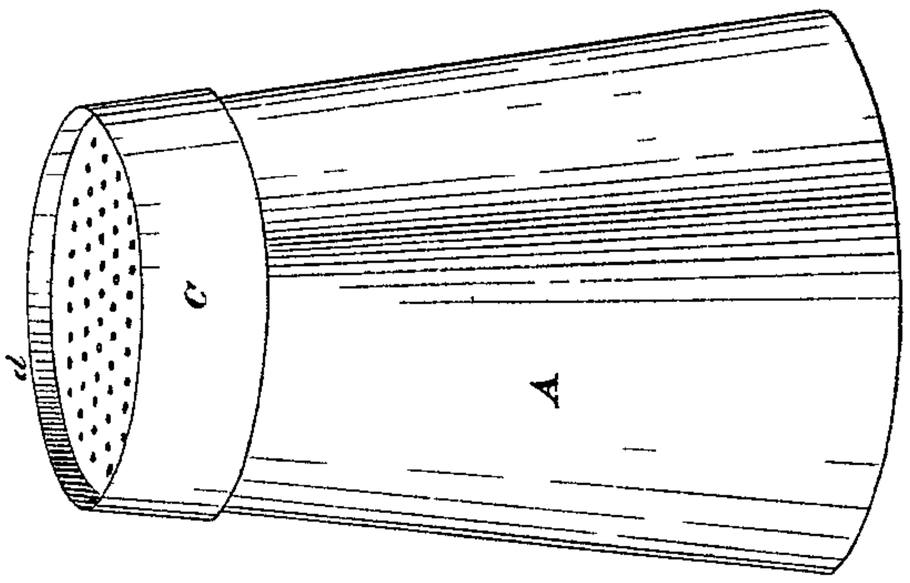


Fig. 2.

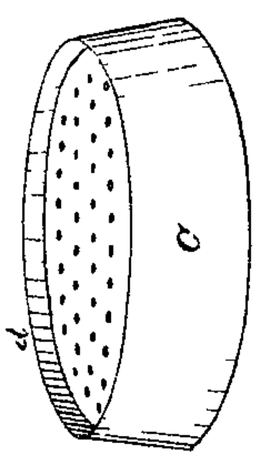


Fig. 3.

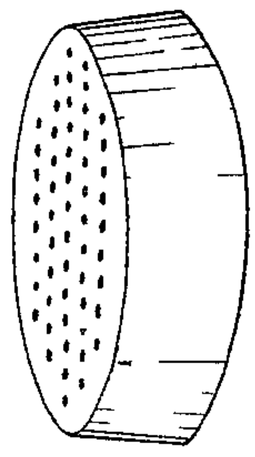
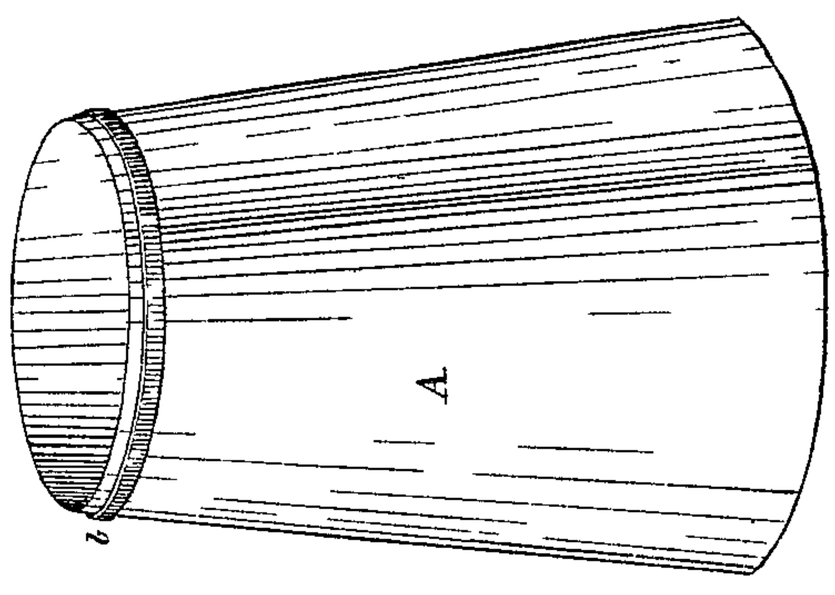


Fig. 1.



Witnesses,
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Ch. Sidney Whitman Attorney.

United States Patent Office.

CHARLES CATLIN VAN DEUSEN, OF SPROUT BROOK, NEW YORK.

Letters Patent No. 105,144, *dated July* 5, 1870.

IMPROVEMENT IN BEE-FEEDERS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, CHARLES CATLIN VAN DEUSEN, of Sprout Brook, in the county of Montgomery, and in the State of New York, have invented a new and useful Improvement in Bee-Feeders; and do hereby declare that the following description, taken in connection with the accompanying drawing hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvement, by which my invention may be distinguished from others of a similar class, together with such parts as I claim and desire to secure by Letters Patent.

My invention relates to that class of appliances, used in connection with bee-hives, termed bee-feeders, and the nature thereof consists in providing an apparatus, by means of which the force of atmospheric pressure is utilized for the purpose of holding in suspension the substance with which the bees are fed.

In the accompanying drawing, which illustrates my invention, and forms a part of the specification thereof, in which corresponding parts are illustrated by similar letters,

Figure 1 represents the receiver, with an annular rubber band applied thereto;

Figures 2 and 3 designate the perforated covers; and

Figure 4 illustrates the cover and receiver, joined together, ready for use.

The construction, operation, and relative arrangement of the component parts of my invention are as follows:

The form of the receiver A is that of a truncated cone, the smaller base of which is open and the larger closed.

The smaller end of the receiver is circumscribed by the annular piece *b*, which is preferably manufactured of India rubber.

The cover C is of such a shape as to correspond with the open end of the receiver, in order that it may be fitted tightly thereon, and is provided with perforations for the egress of the feeding matter contained in said receiver.

To the periphery of the said cover is attached the flange or rim *d*, for the purpose of providing a chamber or receptacle between the perforated surface and the top of the hive upon which it rests.

In using the appliance, the receiver A is filled with the liquid with which it is proposed to feed the bees, the annular rubber strip or ring *b* is moistened and sprung around the smaller end of the receiver, and the cover C pressed evenly and firmly thereon, in such a manner as to form an air-tight connection between the parts in contact. The apparatus is then quickly inverted, and the perforated cover placed over an aperture in the hive.

The capacity and shape of the feeder may be varied to adapt it to the different hives in use.

The liquid contained in the receiver is held in suspension above the hive by the well-known physical laws governing atmospheric pressure and capillary attraction.

Having thus described my invention,

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

An apparatus, in which the forces of atmospheric pressure and capillary attraction are utilized, and the application of the above forces for the purpose herein specified.

In testimony that I claim the foregoing, I have hereunto set my hand and seal this 25th day of February, 1870.

C. C. VAN DEUSEN. [L. S.]

Witnesses:

ALBERT WENDELL,

CHARLES E. WENDELL.