R. BRASS.
Feed-Bag.

No. 197,089. Patented Nov. 13, 1877.

Fig. 1.

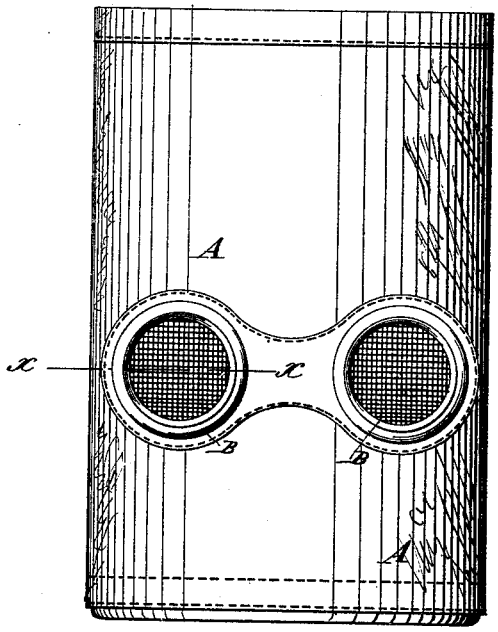



Fig. 2.

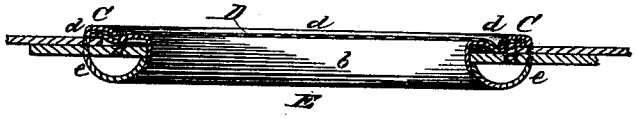
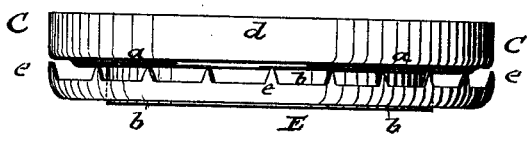



Fig. 3.




WITNESSES:

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# UNITED STATES PATENT OFFICE.

ROBERT BRASS, OF BROOKLYN, NEW YORK.

## IMPROVEMENT IN FEED-BAGS.

Specification forming part of Letters Patent No. **197,089**, dated November 13, 1877; application filed April 30, 1877.

*To all whom it may concern:*

Be it known that I, ROBERT BRASS, of Brooklyn, county of Kings and State of New York, have invented a new and Improved Ventilator for Feed-Bags, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a front view of a feed-bag with my improved ventilators. Fig. 2 is a detail horizontal section of a ventilator on line *x x*, Fig. 1; and Fig. 3, a side view of the ventilator being attached to the bags.

Similar letters of reference indicate corresponding parts.

The invention has reference to a new and improved construction of ventilators for feed-bags of horses and other animals, by which the ventilation may be manufactured cheaper, quicker, and stronger, and attached in durable and reliable manner to the feed-bags.

The invention consists of a drawn sheet-metal ring that retains the wire-screen by a bead and overlapping rear flange, and the pronged or toothed fastening-ring by a binding front flange.

In the drawing, A represents a nose-bag made of canvas, leather, or both, in the usual manner, and B the ventilator of the same. The ventilators B are constructed of a sheet-metal ring-frame, C, that is drawn into proper shape with a beaded shoulder, *a*, and circumferential front flange *b*, and rear flanges *d*. The rear flange *d* is bent or lapped over the ventilating wire-screen D, and forced down on the beaded shoulder, so as to draw the outer part of the screen and the overlapping flange into the bead, and produce the intimate and rigid connection of the screen with the ring-frame C. The front flange *b* is passed through the aperture cut into the bag, and a face-ring, E, of convexo-concave shape, placed around the same. The face-ring E is provided at its outer circumference with rings or teeth *e*, at suitable distances, which are forced through the fabric, while the front flange is turned outwardly at the same time by an expanding-tool, so as to bend on the face-ring, and secure the same rigidly in position on the nose-bag, as shown in Fig. 2.

The main advantage of this method of attaching the ventilator consists in the prevention of the tearing out of the ventilator from the canvas, or other fabric of the bag, as the prongs pass through the same at same distance from the edge of the fabric, and hold the same in connection with the clamping or binding action of the face-flange on the ring *e* in securely-fastened position on the bag.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. As an improvement in ventilators for feed-bags and other purposes, the combination of the ring-frame C, having beaded shoulder and overlapping and binding rear and front flanges with the ventilating-screen and the pronged face-ring, substantially in the manner described, and for the purpose specified.

2. The combination of the ring-frame C, having beaded shoulder and an outer overlapping flange, with the ventilating-screen secured by the binding-flange into the bead of the shoulder, to resist tearing out of the screen, substantially as described.

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Witnesses:

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