T. & J. HAWKES.
Feed-Bags.

No. 207,658. Patented Sept. 3, 1878.

Fig: 1.

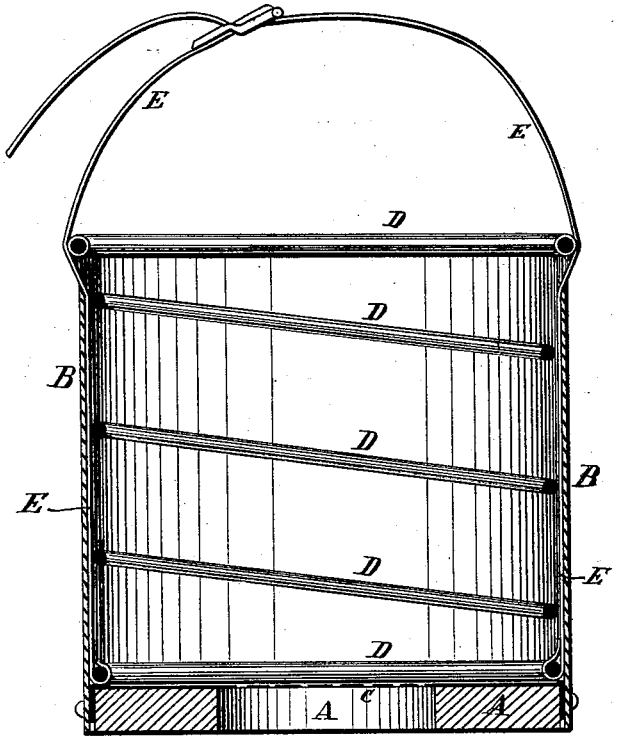
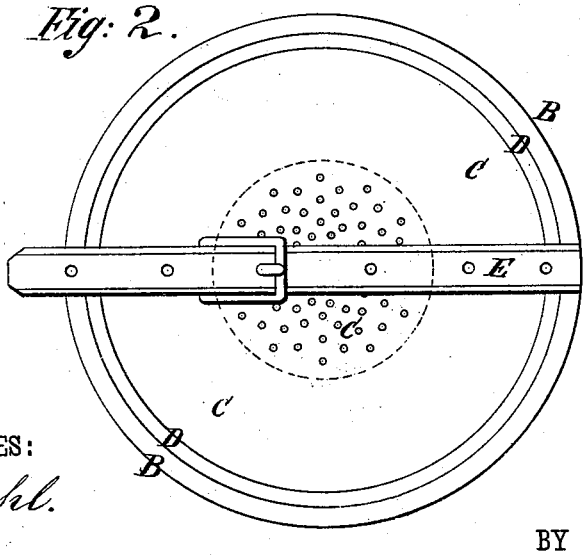


Fig: 2.



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UNITED STATES PATENT OFFICE.

TIMOTHY HAWKES, OF JERSEY CITY, AND JOHN HAWKES, OF NEW BRUNSWICK, NEW JERSEY.

IMPROVEMENT IN FEED-BAGS.

Specification forming part of Letters Patent No. **207,658**, dated September 3, 1878; application filed June 29, 1878.

To all whom it may concern:

Be it known that we, TIMOTHY HAWKES, of Jersey City, in the county of Hudson and State of New Jersey, and JOHN HAWKES, of New Brunswick, in the county of Middlesex and State of New Jersey, have invented a new and useful Improvement in Self-Adjusting Feed-Bags, of which the following is a specification:

Figure 1 is a vertical section of our improved feed-bag. Fig. 2 is a top view of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved feed-bag for horses, which shall be so constructed that the top of the grain will always be in the proper position for the horse to eat conveniently, whether the bag be full, half-full, or nearly empty, and which shall be simple in construction and convenient in use.

The invention consists in a feed-bag provided with a spiral spring placed within it, and having its upper edge attached to the top coil of the said spring, and having the ends of the supporting-straps attached to the lowest coil of the said spring, as hereinafter fully described.

A is the wooden bottom of the feed-bag, to the edge of which is attached the lower edge of the canvas B, that forms the body of the feed-bag. The bottom A is lined upon the inside with sheet metal C, and has a hole formed through its center to admit air, which air passes in through a number of small holes formed through the middle part of the sheet-metal lining C.

D is a spiral spring of such a size as to fit into the body B of the feed-bag. The lower coil of the spring D rests upon the bottom A C, and to its upper coil is attached the upper edge of the canvas B.

E are the straps by which the bag is secured to the horse's head. The straps E pass in through the canvas B just below the upper coil of the spiral spring D, pass down along the inner surface of the opposite sides of the said canvas, and their lower ends are attached to the lower coil of the said spiral spring D, as shown in Fig. 1.

With this construction when feed is placed in the feed-bag, the spiral spring D is drawn upward and its lowest coil is allowed to rest upon the top of the feed, and the straps E are so adjusted that the lowest coil of the spring D, to which the ends of the said straps E are attached, and which rests upon the top of the feed, may be in proper position for the horse to eat from the top of the feed. As the feed is eaten the upper edge of the feed-bag is continually raised by the elasticity of the spring D; but the top of the feed will always be in proper position for the animal to conveniently eat.

With this construction, the feed will not be forced into the horse's nose when the bag is full and will not be out of his reach before it is all eaten.

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

A feed-bag, B A C, provided with a spiral spring, D, placed within it, and having its upper edge attached to the top coil of the said spring D, and having the ends of the supporting-straps E attached to the lowest coil of the said spring, substantially as herein shown and described.

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Witnesses for Timothy Hawkes:
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