

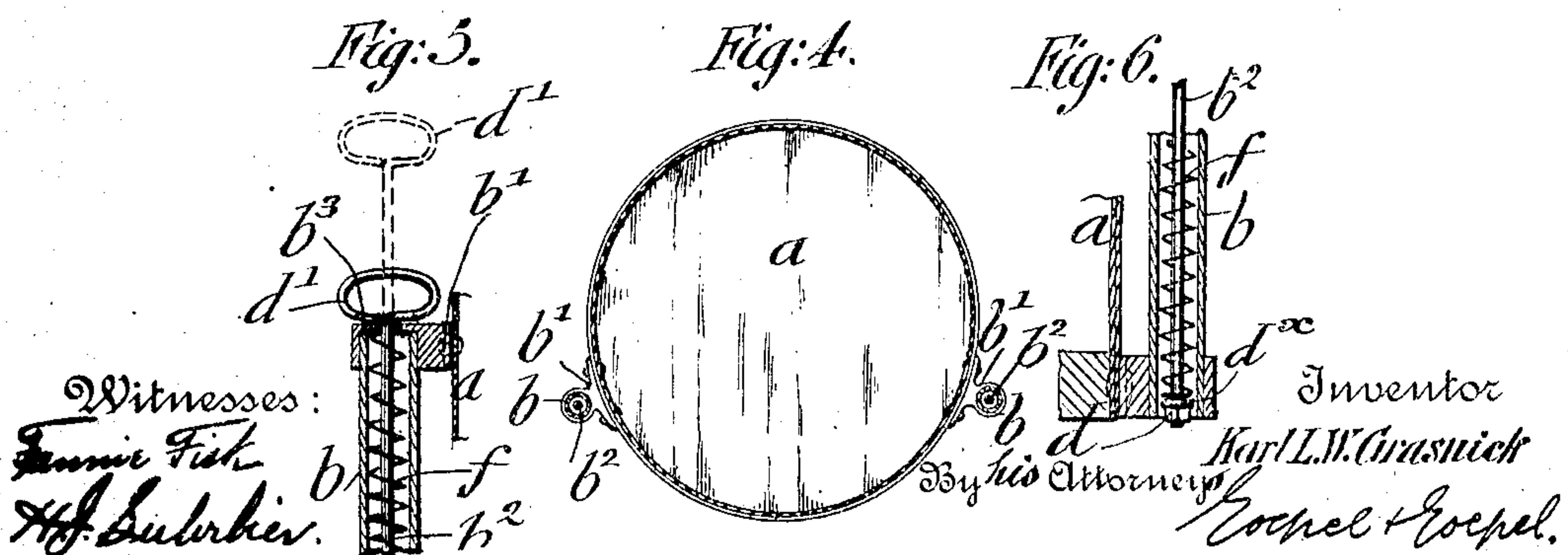
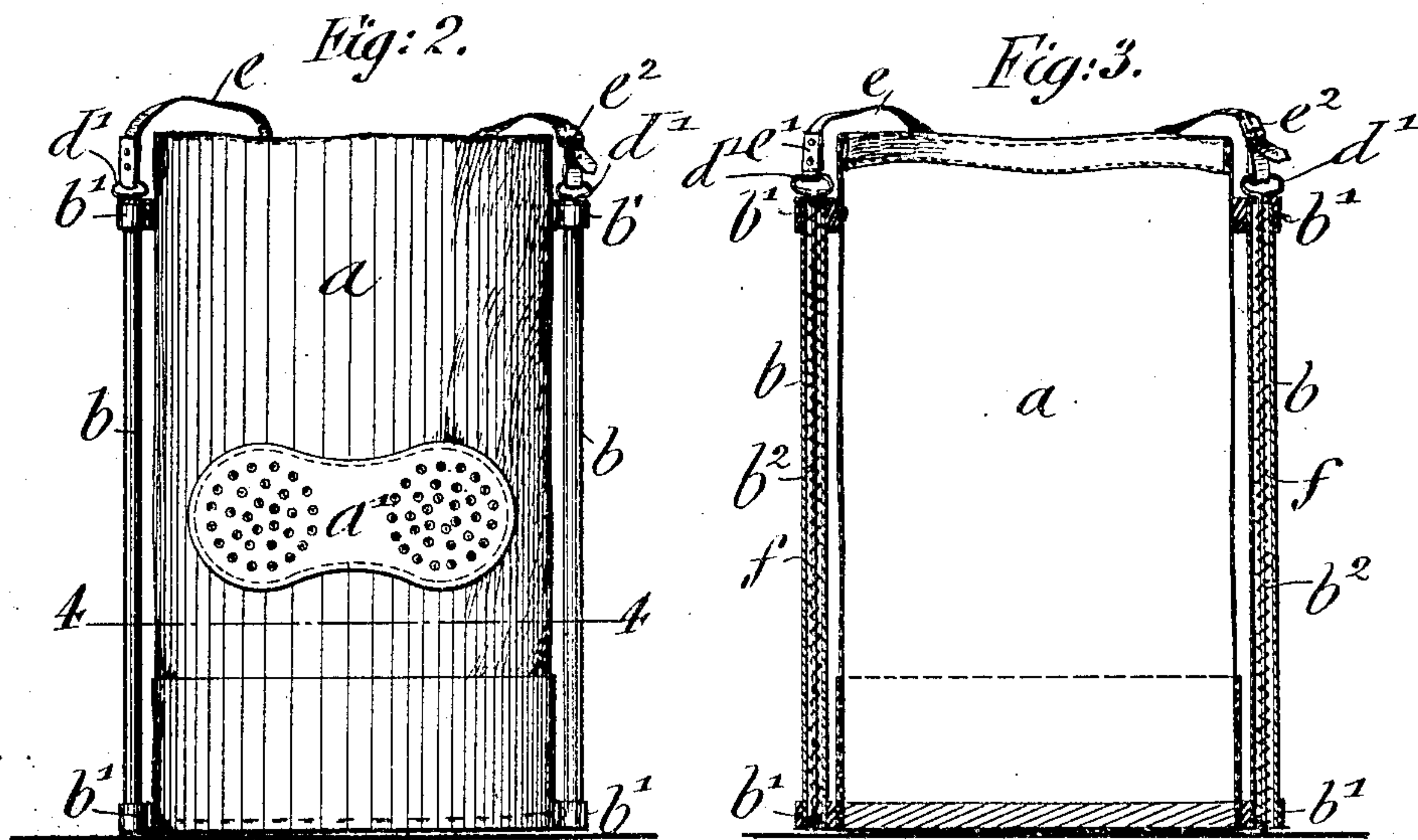
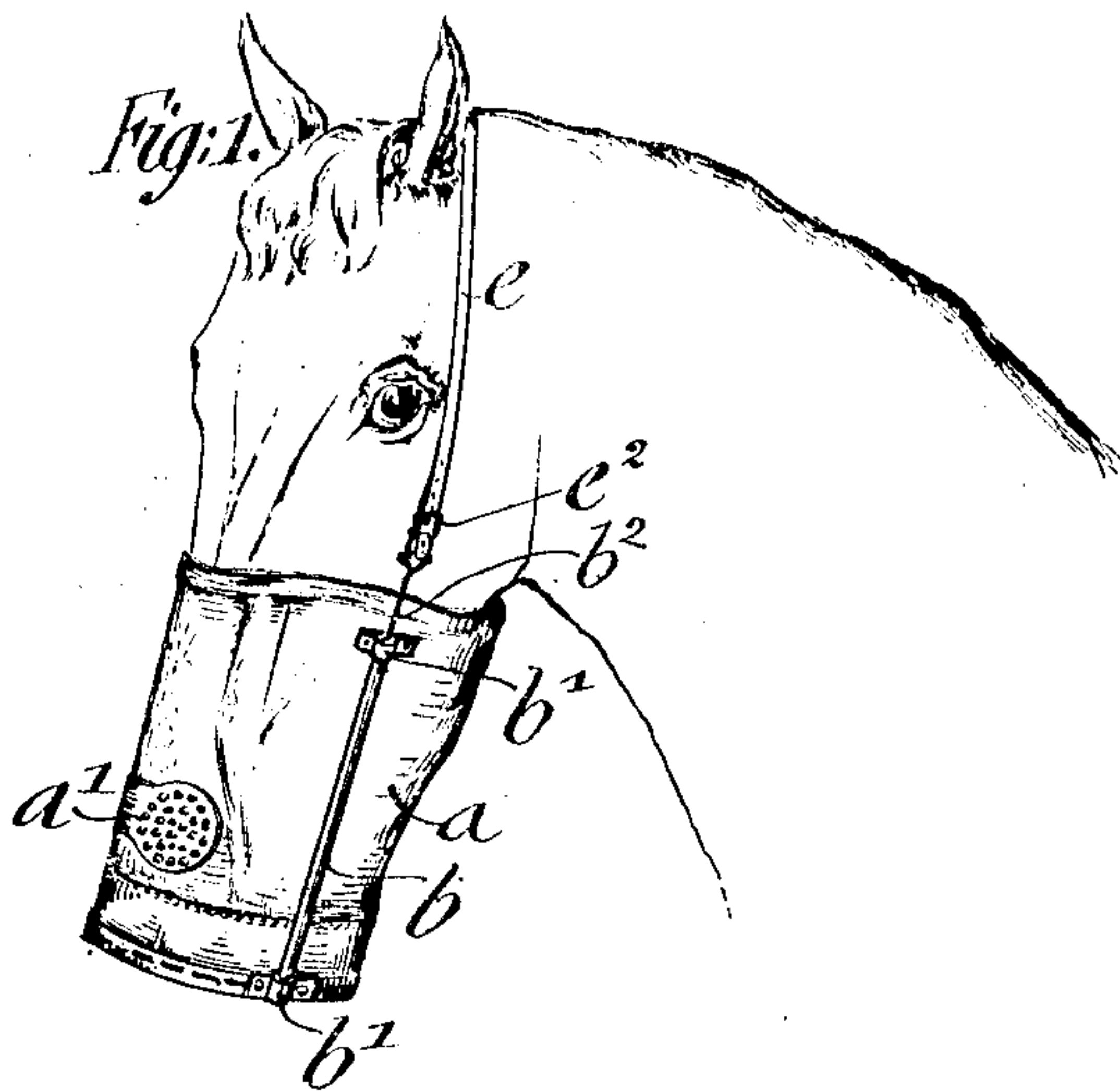
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FEED BAG.

APPLICATION FILED JULY 6, 1907. RENEWED DEC. 28, 1908.

912,952.

Patented Feb. 16, 1909.





# UNITED STATES PATENT OFFICE.

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## FEED-BAG.

No. 912,952.

Specification of Letters Patent.

Patented Feb. 16, 1909.

Application filed July 6, 1907, Serial No. 382,460. Renewed December 23, 1908. Serial No. 469,660.

*To all whom it may concern:*

Be it known that I, KARL LUDWIG WILHELM GRASNICK, a citizen of the United States, residing in New York, in the borough of the Bronx, county and State of New York, have invented certain new and useful Improvements in Feed-Bags, of which the following is a specification.

This invention relates to an improved feed-bag for horses by which the loss of oats connected with the ordinary feed-bags heretofore in use is entirely prevented and a tightly fitting bag obtained by which the oats are always held close to the mouth of the horse, so that the jerking of the bag by the horse and the dropping of oats from the same are entirely prevented; and for this purpose the invention consists of a feed-bag in which the suspension-strap of the feed-bag is connected to spring-cushioned rods which are guided in stationary tubes arranged at opposite sides of the feed-bag, so that the contraction of the cushioning springs always holds the bag, and the feed in the same, close to the mouth of the horse while feeding.

In the accompanying drawings, Figure 1 represents a perspective view of my improved feed-bag in use, Fig. 2 is a side-elevation of the feed-bag, drawn on a larger scale, Fig. 3 is a vertical central section through the same, Fig. 4 is a horizontal section on line 4, 4, Fig. 2, and Figs. 5 and 6 are detail sections of the upper and lower ends of the spring-cushioned bag-supporting rods and their guide-tubes.

Similar letters of reference indicate corresponding parts throughout the several figures.

Referring to the drawings, *a* represents a feed-bag of the ordinary construction, which is preferably provided in the front part with ventilating perforations, the perforated part being reinforced by leather straps *a*<sup>1</sup>, as shown in Figs. 1 and 2. To opposite sides of the feed-bag are attached by means of metallic keepers *b*<sup>1</sup> stationary guide-tubes *b*, which are open at the lower ends. Within the guide-tubes *b* are rods *b*<sup>2</sup>, which pass through caps *b*<sup>3</sup> formed integral with the upper keepers *b*<sup>1</sup> and which extend over the upper mouths of the guide-tubes. Each rod *b*<sup>2</sup> is provided at its lower end with a nut

*d* threaded on the rod and adjustable thereon. Above the nut *d* is a washer *d*<sup>x</sup>, and resting upon this washer is a helical spring *f* which embraces the rod within the guide-tube and abuts at its upper end against the under surface of the cap *b*<sup>3</sup>. The upper end of each rod is provided with a loop *d*<sup>1</sup> and to these loops the head-strap *e*, by which the bag is applied to the head of the horse, is connected.

The head-strap *e* is fixedly connected to one of the loops, as shown at *e*<sup>1</sup>, while the other end is adjustably connected to the other loop by means of a loop and buckle *e*<sup>2</sup>, as shown in Fig. 3.

It is apparent that the weight of the bag and its contents will be sustained by the spring-cushioned suspension-rods, and that according to the weight of the contents the rods *b*<sup>2</sup> will be pulled more or less out of the guide-tubes, as shown in Fig. 1. The tendency of the springs is to force the bag upward direction, so that as the oats are gradually consumed by the horse the bag will be moved upwardly, so that the oats will always be close to the muzzle of the horse. In this way the jerking of the bag and consequent dropping out and loss of the feed are obviated.

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

In a feed-bag, the combination, with the bag proper, of upright guide-tubes at the sides thereof, upper and lower keepers at the ends of said tubes by which the same are applied to the bag, the upper keepers having caps formed integral therewith and extending over the upper ends of said tubes, rods guided in said tubes and passing through said caps, nuts threaded on the rods at their lower ends, helical springs embracing the rods and interposed between said nuts and said caps, and a supporting-strap connecting said rods at their upper ends.

In testimony, that I claim the foregoing as my invention, I have signed my name in presence of two subscribing witnesses.

KARL LUDWIG WILHELM GRASNICK.

Witnesses:

PAUL GOEPEL,  
HENRY J. SUHRBIER.