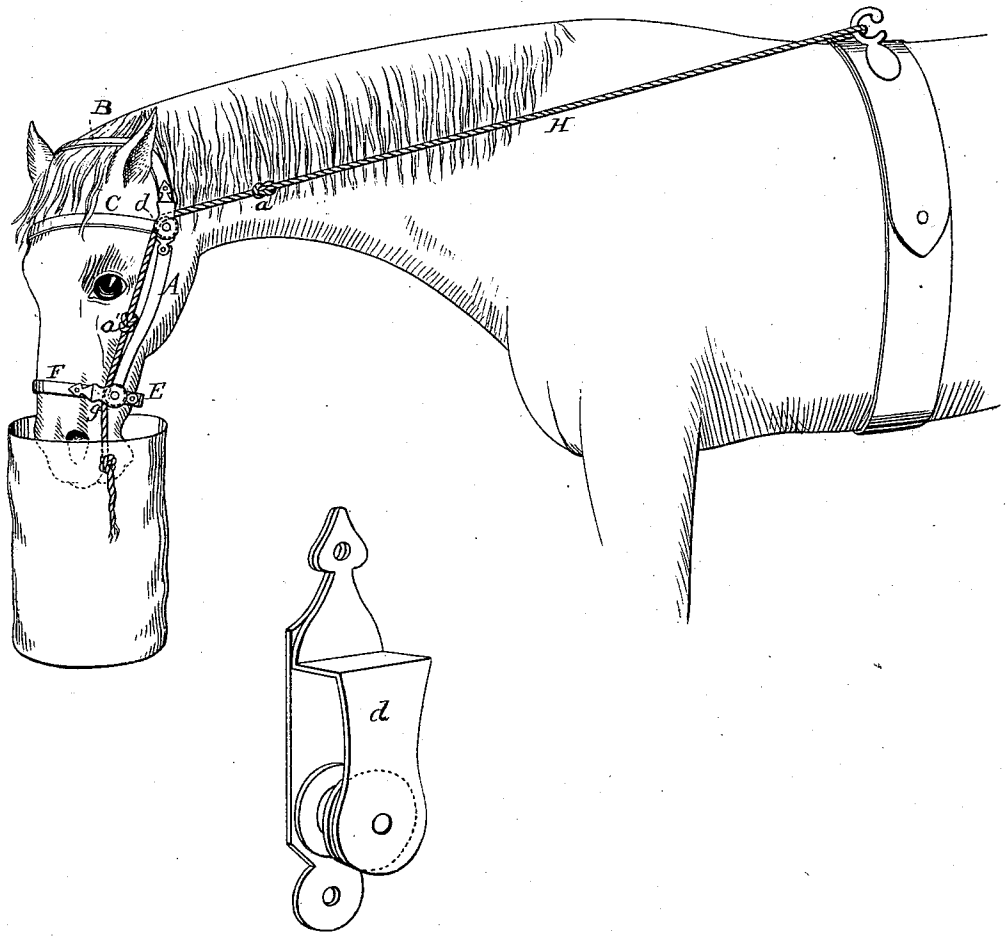
C. H. WILLIAMS.

AUTOMATIC FEED-BRIDLES.

No. 193,584. Patented July 24, 1877.



WITNESSES

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IMPROVEMENT IN AUTOMATIC FEED-BRIDLES.

Specification forming part of Letters Patent No. **193,584**, dated July 24, 1877; application filed December 30, 1876.

To all whom it may concern:

Be it known that I, CRATON H. WILLIAMS, of New York, in the county of New York and State of New York, have invented a new and valuable Improvement in Automatic Feeding-Bridles; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a perspective view of this invention, showing the horse's head partially depressed. Fig. 2 is a perspective view, showing the pulley attachment.

This invention has relation to improvements in feeding-gear for the attachment of nose-bags, tubs, or other feed-receptacles; and it consists in the construction and novel arrangement of the head-gear, having on each side a pulley or guide for the feeding chain or rope at both ends of the cheek-strap, when it intersects the brow and nose straps, as hereinafter shown and described.

In the accompanying drawings, the letter A designates the cheek-straps, extending along the head in the usual manner; and B represents the head-strap, connecting the same behind the ears and over the head. C indicates the brow-band, extending over the forehead in front. On each side, at the junction of these three straps, is secured the pulley or guide *d*.

At the lower end of the cheek-straps is arranged the back-strap E, connecting the same in rear of the jaw, and the nose-strap F, forming a similar connection in front. At the junction of these straps, on each side, is secured the lower pulley or guide *g*.

H indicates the feeding cord, chain, or rope, as the case may be, the forward ends of which are designed to be attached to the nose-bag or other feed-vessel. This feeding-chain extends over the pulleys or guides *g* and *d* on each side, and, when the gear or bridle is placed on the horse, is designed to be carried back and attached to the water-hook. Therefore, when the horse extends his neck to reach the feed in the bag, the latter will be drawn up to his mouth by the chain; and when he contracts his neck and raises his head to eat, the chain will run out over the pulleys and let the bag down, thereby affording space for chewing, and for the admission of air, as described in my Letters Patent dated May 2, 1876.

In order to prevent the bag from falling too low, knots, rings or stops *a* are provided on the branches of the feeding-line H, above the upper pulleys. Similar stops *a'* may be arranged above the lower guides to pull them down after they have been pushed up on the horse's face in reaching after the feed.

In this manner is constructed my automatic feeding-bridle. The cheek-pieces and nose-strap serve to guide the animal's nose into the feed-vessel, and the strap back of the jaws keeps said vessel from swinging to one side of the head. The brow-band keeps the pulleys forward in their places under the strain, and the weight is borne principally by the head-band and cheek-straps.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

The feeding-gear having the brow band C, nose-band F, and cheek-strap A, and the pulleys *d* and *g*, respectively, at the intersections of said bands and strap, in combination with the feeding-cord H, having stops *a a'*, and the feed-bag, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

CRATON H. WILLIAMS.

Witnesses:
ERIC J. SERRELL,
JOHN H. DAYTON.