



# UNITED STATES PATENT OFFICE.

HENRY W. FULLER, OF SENECA, KANSAS.

## IMPROVEMENT IN CALF-MUZZLES.

Specification forming part of Letters Patent No. 194,594, dated August 28, 1877; application filed July 13, 1877.

*To all whom it may concern:*

Be it known that I, HENRY W. FULLER, of Seneca, in the county of Nemaha and State of Kansas, have invented a new and Improved Calf-Muzzle, of which the following is a specification:

The accompanying drawing represents a perspective view of my improved calf-muzzle.

This invention has reference to an improved anti-sucking bit and muzzle for calves, which may be attached without straps, so as to form an effective weaner; and the invention consists of a spiked and jointed nose-piece, attached to a side wire, that is extended in bow shape over the head, and connected by an anti-sucking bit of spiral wire.

In the drawing, A represents the nose-piece, which is made of two sections, that are jointed together by means of a rivet, *a*, and ring *b* at the joint. By opening and taking out the little ring, the nose-piece may be readily opened for being detached from the nose, while, by closing the ring, the same is applied to the nose.

The ends of the sections that enter into the nostrils are made of ball shape, and press lightly, without hurting the calf on the nose by the flexible joint of the sections. The nose-piece A is provided with spikes B, cast or otherwise attached to the sections, there being preferably three bottom spikes, a side spike at each end, and two front spikes, that extend at right angles from the nose-piece in forward direction.

The bottom spikes acts as guards to prevent the teat from coming into the mouth, while the front spikes are pricking the cow, so that she does not allow the calf to take hold of the teat.

The nose-piece A swings on a bent wire frame, C, that is applied by eyes to holes of the nose-piece. The wire frame C is made of side pieces C<sup>1</sup>, and a turned-up bow-piece, C<sup>2</sup>, that extends over the forehead of the calf. The bow-piece is placed nearly at right angles to the side pieces, and provided with eyes to attach the ends of a flexible bit, D, of spiral wire.

The side pieces C<sup>1</sup> may be made at the middle of their length with short spirals, that make the nose-piece fit lighter on the nose, and admit the side pieces to be fitted to the size of the mouth.

The spiral bit D may be lengthened or shortened by being pulled out or pressed together, to fit flush to the size of the calf's mouth, so as to prevent its catching with brush, &c., and the tearing of the same.

The spiral bit is not liable to clog up, and is flexible enough to go up or down in the mouth, allowing the food to pass freely.

The muzzle may be used without the bit, in which case the nose-piece is sufficient to prevent sucking.

The bow-piece and nose-piece together hold the muzzle in position without the use of straps, which forms an important feature of my muzzle, as it can be made cheaper, and is more durable.

The nose-piece acts in all cases, even when the calf tries to throw the same up out of the way of the mouth, in which case the front spikes stick into the forehead, and bring the bottom and side spikes into action, so as to prevent sucking in effective and reliable manner.

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

1. A calf's muzzle, made of a jointed and spiked nose-piece, and of a bent wire frame extending along the sides of the mouth and across the forehead, substantially as and for the purpose specified.

2. A calf's muzzle, made of a jointed and spiked nose piece, a bent wire frame extending sidewise of the head and across the forehead, and of a flexible spiral bit, substantially as described.

H. W. FULLER.

Witnesses:

SIMON CONWELL,  
R. M. EMBERY.