

(No Model.)

R. ARBORN.
COW, CALF, AND COLT WEANER.

No. 467,144.

Patented Jan. 19, 1892.

Fig. 1.

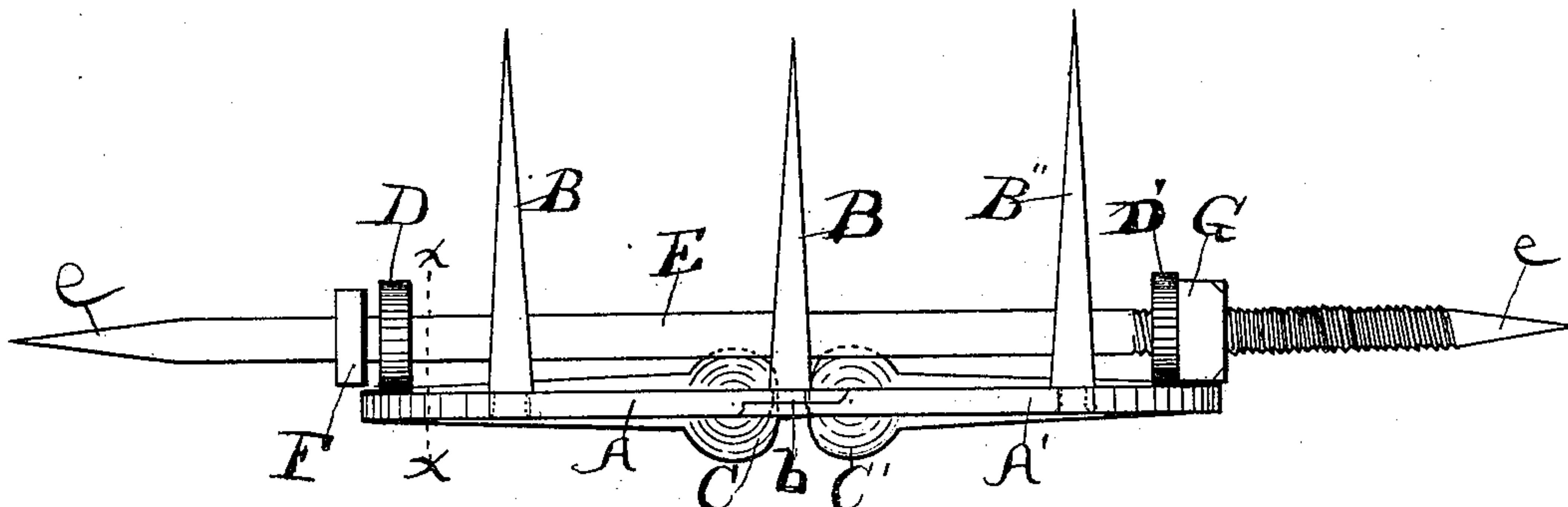
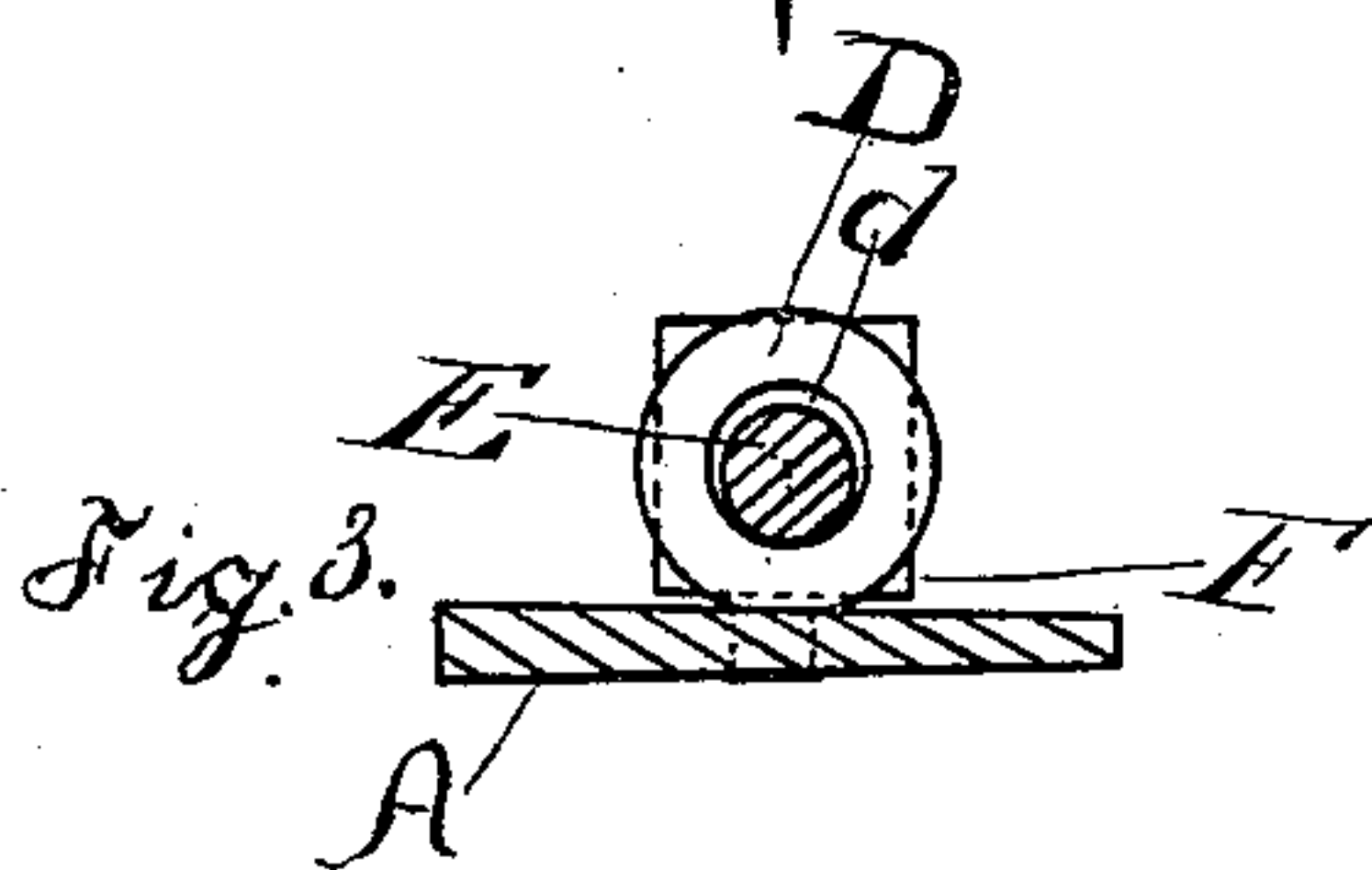
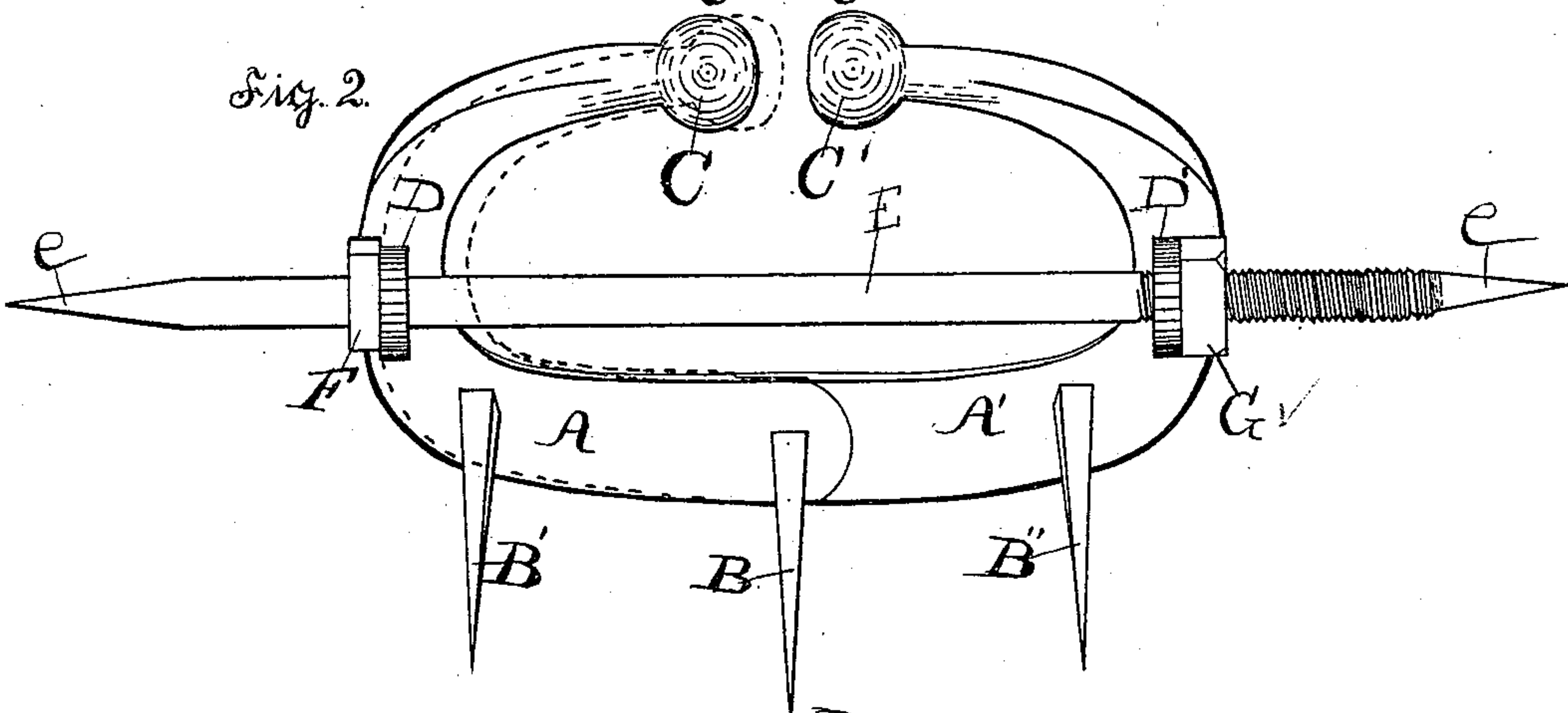


Fig. 2.



Witnesses
A. J. Townsend.
M. C. Galer.

Inventor
Russell Arbourn
by Hazard Townsend
his atty

UNITED STATES PATENT OFFICE.

RUSSELL ARBORN, OF LOS ANGELES, CALIFORNIA.

COW, CALF, AND COLT WEANER.

SPECIFICATION forming part of Letters Patent No. 467,144, dated January 19, 1892.

Application filed November 26, 1890. Serial No. 372,703. (No model.)

To all whom it may concern:

Be it known that I, RUSSELL ARBORN, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented a new and useful Improvement in Cow, Calf, and Colt Weaners, of which the following is a specification.

My invention relates to that class of weaners in which a jointed nose-ring is provided with spikes; and my invention relates more particularly to the means whereby such nose-ring is attached to and locked upon the nose of the animal.

The object of my invention is to provide a cheap and simple weaner that can be easily attached to the nose of the animal, and that can be securely locked in its position, so that it cannot be detached by the animal, but can easily be detached by the person in charge.

The accompanying drawings illustrate my invention.

Figure 1 is a plain elevation, looking toward the nose-knobs and showing the parts adjusted preparatory to withdrawing the locking-bolt. Fig. 2 is a perspective view, looking down on the top of Fig. 1 and showing the parts as when adjusted to lock the locking-bolt to prevent its removal from the nose of the animal. The position of the device in this figure is substantially that in which it hangs when secured to the nose of the animal. Fig. 3 is a cross-section on line *x x*, looking to the left.

My invention comprises the combination of two bent arms hinged together and provided with forwardly-projecting spikes and with oppositely-arranged bolt-receiving eyes, a locking-bolt passing through and fitting loosely in such eyes and provided with screw-threads at one end and with an angular enlargement arranged at the other end to engage the face of one of the bent arms to prevent the rotation of such bolt when in position in such eyes, and an angular nut screwed upon the screw-threaded end of such bolt to engage its bent arms to prevent rotation of the tap when the arms are spread apart by the reason of their attachment to the nose of the animal in the manner of ordinary nose-rings, as hereinafter set forth.

In the drawings, *A A* are two complementary hinged curved arms or open half-links, hinged together at one end by the rivet portion *b* of

the middle spike *B* and having their other ends rounded and preferably knobbed, as shown at *C C'*.

D D' are two lugs projecting, respectively, from the faces of the half-links *A A'* and provided with eye-holes *d* to receive the locking-bolt *E*, which is somewhat longer than the link formed by *A A'*, and is sharpened at the ends. The bolt is provided near one end with an angular enlargement *F*, and is screw-threaded at the other end to receive the angular nut *G*, which is screwed thereon to secure the bolt in place. The holes *d* in the lugs *D D'* are somewhat larger than the cross-section of the bolt, so as to allow the ends *C C'* of the half-links *A A'* to be moved to and from each other slightly while the bolt *E* is in position.

The lugs *D D'* are arranged, respectively, at a distance from the outer edge of their respective arms of the link, and the bolt-receiving eyes are arranged above the face of the link far enough to allow the angular projection *F* and angular nut *G* to pass the outer projecting portion of the link and engage their respective lugs and to engage the face of the link with their plain faces, so as to prevent the bolt and nut from turning.

In practice the weaner is applied to the nose of the animal in like manner to an ordinary nose-ring, except that the ends *C C'* are spread sufficiently apart to make the space between them wide enough to receive the cartilage which forms the division between the nostrils without inconvenience. Then the ends *C C'* are inserted in the nostrils and pressed together against the cartilage in the position indicated by dotted lines in Fig. 2. Then the bolt is turned to screw it into the nut, which is held stationary by contact with the half-link *A'*. When the projection *F* is thus brought into contact with the link, the link is allowed to spread apart again, thus bringing the angular projection *F* over the face of the link, as shown in Fig. 2. So long as the several parts are in this relative position the bolt can not be removed from the lugs and the ends *C C'* cannot be spread any farther apart and cannot be removed from the animal's nose until the ends *C C'* are again pressed together, as in Fig. 1, and the bolt unscrewed from its nut.

When the weaner is attached to the animal's nose, it hangs pendent, with the spikes *B B' B''*

projecting forward and with the sharpened ends *e e* of the bolt *E* projecting laterally. When the animal puts its nose down to take food, the device swings forward out of the way of the animal; but when the animal attempts to reach the udder the link drops against the nose and the spikes *B B' B''* project forward to prick the udder. The sharpened ends *e e* of the bolt are designed to prevent the animal from sucking herself.

Now having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination of the two bent armshinged together and provided with forwardly-projecting spikes and with the oppositely-arranged bolt-receiving eyes, the locking-bolt passing

through and fitting loosely in such eyes and provided with screw-threads at one end and with an angular enlargement arranged at the other end to engage the face of one of the bent arms to prevent the rotation of such bolt when in position in such eyes, and the angular nut screwed upon the screw-threaded end of such bolt to engage its bent arms to prevent rotation of such nut when the arms are spread apart by reason of their attachment to the nose of the animal in the manner of ordinary nose-rings, as set forth.

RUSSELL ARBORN.

Witnesses:

JAMES R. TOWNSEND,
ALFRED I. TOWNSEND.