S. E. SHAW.
CALF WEANER.

No. 419,078.   Patented Jan. 7, 1890.
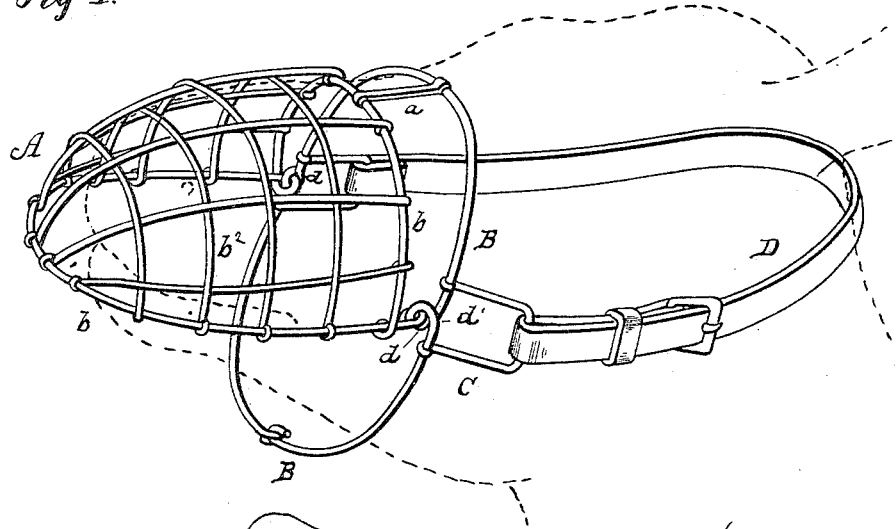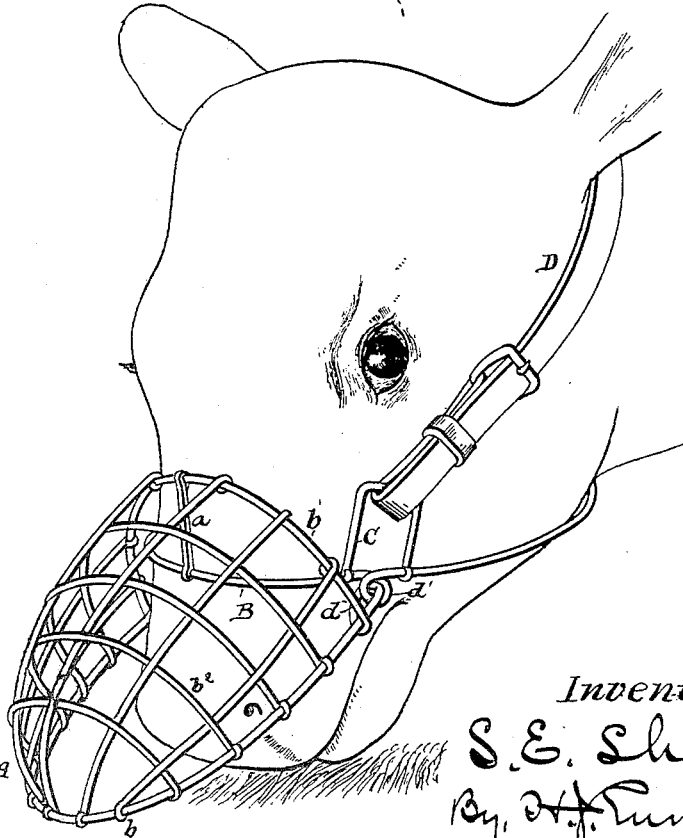
Fig 1.

Fig. 2.

Attest
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SAMUEL E. SHAW, OF SCRANTON CITY, IOWA.

CALF-WEANER.

To all whom it may concern:

Be it known that I, SAMUEL E. SHAW, a citizen of the United States, residing at Scranton City, in the county of Greene and State of
5 Iowa, have invented certain new and useful Improvements in Calf-Weaners; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it ap-
10 pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in
15 devices for weaning calves; and my invention relates especially to a gravitating basket and to a band adapted to surround the throat or nose portions of the animal, and also to certain other devices, which will be fully under-
20 stood from the following description, taken in connection with the annexed drawings, in which—

Figure 1 is a perspective view of my improved device, showing it applied to the head
25 of an animal, which is shown in dotted lines. Fig. 2 is a similar view of the same parts, indicating the position of the basket-shield when the animal is eating.

Referring to the annexed drawings, A des-
30 ignates a wire shield composed, essentially, of a bow b, a bow b', and a series of mesh-work wires b^2, forming a shield which is designed for covering the mouth of the animal when the head is in a position for sucking
35 the mother, and which is hinged or linked to a nose-band in such a manner that during the act of eating the said shield will, by impingement against the ground, rise automatically and leave the mouth of the animal free.
40 The ends of the bow b have eyes d formed on them which are adapted to engage with loops d', formed on the chin-band B, which latter is a metallic portion united at B', and adapted to fit loosely the jaws of the animal. This
45 nose-shield A articulates about the joints $d\ d'$, and is arrested in its downward movement by a flexible strap or chain a, connecting the chin-band B with the bow b'. Straddling the joints which connect the shield to the chin-band B are linked loosely loops C C, to which
50 the head-band D is adjustably attached, as shown in the annexed drawings.

During the act of eating the cage or guard is turned, as shown in Fig. 2. The normal position of the said guard covers the nose
55 and mouth of the animal, so that it is impossible for it to suckle. This position of the guard is represented by Fig. 1.

An essential feature of my invention is the chin-band B, formed with eyes d' of one piece.
60 Another essential feature is the device A, having the bow b, provided with the reticulated shield, the ends of said bow terminating in interlooping eyes d, engaging with the chin-band eyes d', and forming the back bow
65 b' of the cage or reticulated shield; and another feature is the strap-loops C, the limbs of which are looped astride of the articulating-points of the gravitating shield. The said loops C are thus held in proper place on
70 the chin-band.

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

A calf-weaner comprising the following
75 instrumentalities in combination : a chin-band B, having formed on it the eyes d', and provided with the loops C C, straddling said eyes, the cage A, having a base-bow b, provided with a back bow forming eyes engaging
80 the chin-band loops, and also forming the back bow b' of the said cage, and an elastic connection a, located in the median line of the device and attached to the chin-band and also to the back bow of the cage, all as speci-
85 fied.

In testimony whereof I affix my signature in presence of two witnesses.

<div style="text-align:right">SAMUEL E. SHAW.</div>

Witnesses:
    P. P. PITCHER,
    C. W. STILLWELL.