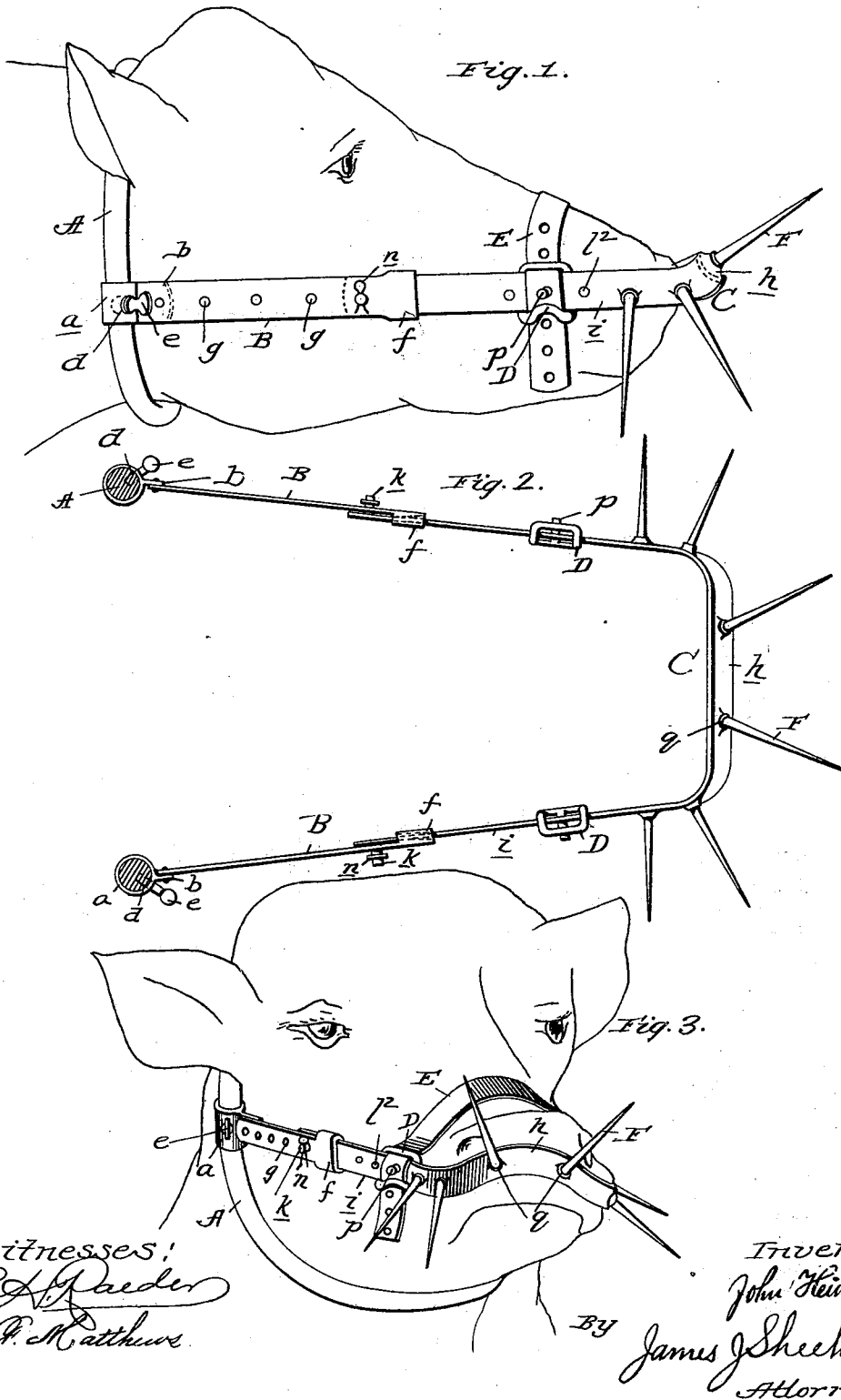


J. HEINZ.
MUZZLE.

No. 508,419.

Patented Nov. 14, 1893.



Witnesses:
C. Raeder
W. P. Matthews

Inventor
John Heinz
By *James J. Sheehy*
Attorney

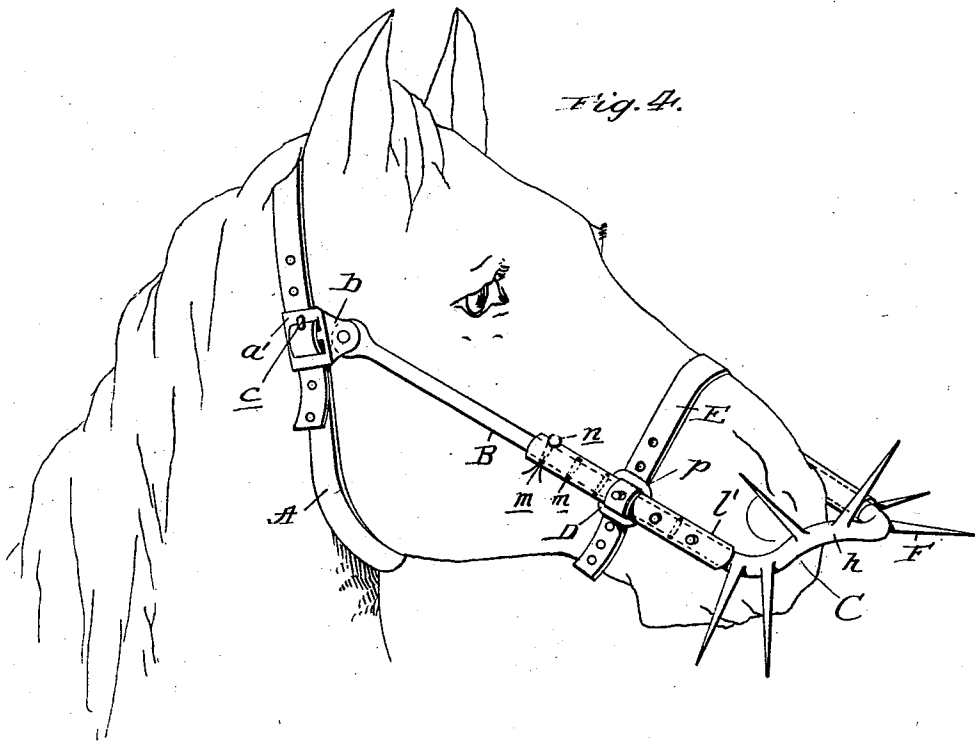
(No Model.)

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UNITED STATES PATENT OFFICE.

JOHN HEINZ, OF RILEY COUNTY, KANSAS.

MUZZLE.

SPECIFICATION forming part of Letters Patent No. 508,419, dated November 14, 1893.

Application filed October 3, 1892. Serial No. 447,766. (No model.)

To all whom it may concern:

Be it known that I, JOHN HEINZ, a citizen of the United States, residing in the county of Riley and State of Kansas, have invented certain new and useful Improvements in Calf-Muzzles; 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 appertains to make and use the same.

This invention has relation to muzzles or weaning devices for calves and colts, and the novelty will be fully understood from the following description and claims when taken in connection with the annexed drawings, in which—

Figure 1, is a side view of my improved device, illustrating the same in position on the head of a calf. Fig. 2, is a plan view of the device removed from the calf, with the throat ring or strap in section. Fig. 3, is a perspective view of the device illustrated in position on a calf, and Fig. 4, is a perspective view of a modification, illustrating the same in position upon a colt.

Referring by letter to said drawings: A, indicates a neck strap or band. This band may be of a circular form in cross section, as shown in Figs. 1, 2, and 3, or it may be a flat strap as shown in Fig. 4, carrying a buckle for attaching it to the neck of an animal.

As shown in Fig. 4, of the drawings, I provide a buckle *a'*, with a lug *b*, and this buckle carries a tongue *c*, whereby it may be adjustably attached to the strap or band A.

In Figs. 1, 2, and 3, of the drawings, I have made the buckle, of an annular form in cross section, as shown at *a*, so as to correspond with the shape of the strap or band A, and I provide this buckle with a screw-tapped aperture *d*, to receive a thumb screw *e*, designed to adjustably connect the buckle on the band or strap, and it is obvious that the band may be made of metal, leather, or other suitable material.

B, indicates the cheek bars. These bars, as shown in Figs. 1, 2, and 3, are pivotally connected at one end to the lugs *b*, of the buckles, and are provided at their outer ends with loops *f*. These cheek bars are also provided with transverse holes *g*, for a purpose, which will be presently described, while in

Fig. 4, of the drawings, the loops are omitted from the outer ends of the cheek bars, and holes *g*, simply provided.

C, indicates the nose piece. This nose piece as shown in Figs. 1, 2, and 3, of the drawings, is formed from flat material, and comprises a transverse part *h*, and two rearwardly directed, lateral branches *i*, while in Fig. 4, of the drawings, the nose piece is of round material in cross section, and has the lateral branches *i'*, terminating in sockets, to receive the outer ends of the cheek bars B, which are adjustably secured in these sockets, which are pierced transversely, as shown at *m*, by means of a cotter pin *n*, spring key, or other suitable fastening device. The lateral branches I, pass through the loops *f*, and are provided at their ends with studs *k*, which pass through the holes *g*, and are perforated to receive the cotter pin or key *n*. By this means I am enabled to adjust the muzzle so as to suit the head of a calf or colt of different sizes. The lateral branches are furthermore provided with transverse holes *l*, which are designed to receive the stud or pintle *p*, of a slide buckle D. There is one of these buckles arranged on each lateral branch and they are designed to receive a nose strap E. These nose straps may have their opposite ends perforated as shown, to receive the studs or pintles of the buckles, and when desirable, the straps may pass beneath the chin, as well as over the nose, and carry a buckle for securing the same so as to prevent the muzzle being thrown off or displaced by the animal.

F, indicates the prongs or spikes. These spikes may be secured to the muzzle in many different ways, and while I have shown in the drawings, two convenient forms, yet there are many other ways in which they may be secured to the bars. These spikes or prongs should be long and pointed, as shown.

As illustrated in Figs. 1, 2, and 3, of the drawings, I provide the transverse portion *h*, of the nose or mouth piece, with holes *q*, and I also provide these holes in the lateral branches, adjacent to the transverse portion. The blunt ends or headed ends of these spikes or prongs, are secured in the holes *q*, and the spikes or prongs on the transverse portion *h*, are directed upwardly oblique as better shown in Fig. 1, of the drawings, and the lateral

spikes or prongs, are directed outwardly and downwardly in a converging manner, as shown, although it is obvious that the direction of the spikes may be varied to suit the fancy of the manufacturer.

In Fig. 4, of the drawings, I have illustrated the spikes or prongs as formed integral with the nose or mouth piece, and as another convenient manner of providing the prongs, I would take round nails, suitably pointed, and after passing them through the holes *g*, would bend them against the outer side of the bar *h*, and also the lateral branches thereof, as this would afford a very cheap construction, and a very durable one, while in case of breakage or injury to any of the spikes, such impaired ones may be easily removed and replaced, by others.

I am aware that many changes and modifications might be made in many of the parts of my device, without departing from the spirit of my invention. For instance it may not be desirable in all cases to have the cheek bars adjustable, and in such cases, the lateral branches may extend clear to the neck band or strap, and be secured thereto, and in some cases, a strap might be employed connecting

the neck band or strap at the throat portion with the chin strap, and this latter construction will effectively serve as a halter.

Having described my invention, what I claim is—

1. A muzzle or weaning device, comprising a neck band, a nose piece having lateral, rearwardly-directed branches, and spikes or prongs carried thereby, cheek bars adjustably connecting the spiked or pronged pieces, with the neck band, and a nose strap secured to the lateral branches of the spiked or pronged piece, substantially as specified.

2. A weaning device, comprising a neck band, cheek bars pivotally secured at one end thereto, a nose piece carrying spikes or prongs arranged as described, and adjustably connected to the forward ends of the cheek bars, and a suitable means for securing the spiked or pronged piece to the nose and chin of an animal, substantially as specified.

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

JOHN HEINZ.

Witnesses:

C. W. HASSEBROEK,
W. E. PAYNE.