

J. S. MAUGHLIN & W. C. MARR.

CALF-WEANER.

No. 177,261.

Patented May 9, 1876.

Fig. 1.

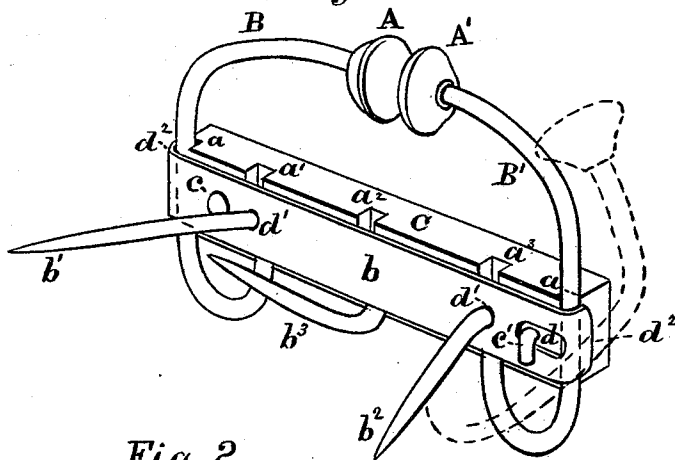


Fig. 2.

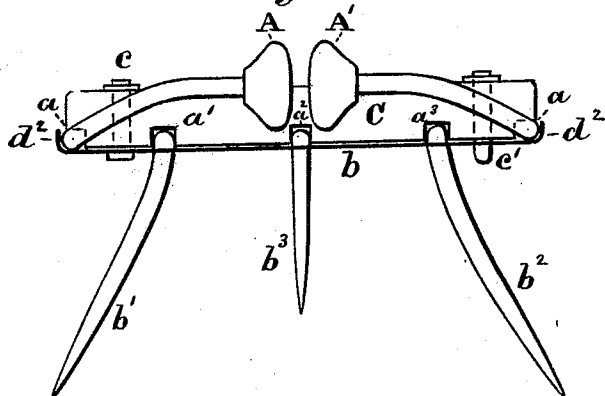


Fig. 3.

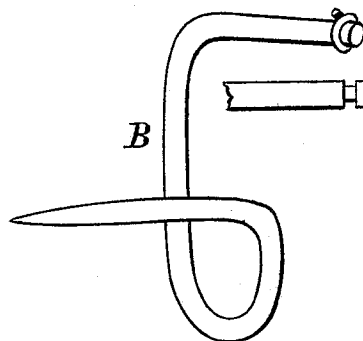
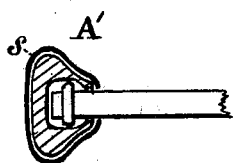


Fig. 4.



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UNITED STATES PATENT OFFICE.

JOSEPH S. MAUGHLIN AND WILLIAM C. MARR, OF ONAWA, IOWA.

IMPROVEMENT IN CALF-WEANERS.

Specification forming part of Letters Patent No. **177,261**, dated May 9, 1876; application filed April 19, 1876.

To all whom it may concern:

Be it known that we, JOSEPH S. MAUGHLIN and WILLIAM C. MARR, of Onawa, in the county of Monona and State of Iowa, have invented certain new and useful Improvements in Calf-Weaners; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it 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.

Figure 1 is a perspective view. Fig. 2 is a top view. Fig. 3 is a view of one of the bent wires detached.

Our invention relates to calf-weaners having spur-wires provided with bulbs to be inserted in the nose for holding the muzzle in place.

The bulbs on such muzzles, as heretofore made, being rigidly attached, are liable to chafe the skin, and the muzzles are liable to be rubbed off.

Our invention consists of swivel-bulbs, covered with rubber or other soft material to prevent the liability of chafing, and to more securely hold the muzzle in place; and we make the bearing-surface of the body of the muzzle of wood, which is preferable to metal, especially in cold weather.

A A' represent the bulbs, connected with the upper ends of the wires B B' by swivel-joints; and the bulbs are covered with rubber or other suitable soft materials. (See Fig. 4.) We form the swivels by small wires bent to fit grooves around the wires B B', near their upper ends, as shown in Fig. 3 of the drawings; but the bulbs may be attached by swivel-joints formed in any other preferred manner. C represents the body of the muzzle, made of wood, and provided with recesses $a^1 a^2 a^3$ to receive the spur-wires, which are held in place on the block C by a metallic plate, b , fastened to the block by a riveted bolt, c , near one end, and a button or hook, c' , in a slot, d , near the other end of the plate, which is provided with holes d^1 and bent ends d^2 , to hold the wires B B' in place. The sides of these wires are adjusted in the recesses at the ends of the block, and, extending below

the block, are bent upward into recesses a^1 , and the spur ends $b^1 b^2$, bent outward, are extended through the holes d^1 in the plate. The spur b^3 is adjusted in recess a^2 , and bent downward and outward below the plate, as shown in the drawings.

In adjusting the muzzle on the animal, the hook c' is turned lengthwise with the slot d , allowing that end of the plate to spring outward from the block, and the wire B', carrying bulb A', to be moved outward, as shown by dotted lines in the drawings.

These bulbs, swiveled as described, form pivotal bearings in the nose for the ends of the wires, and do not turn in the nose with the movements of the muzzle, caused by the animal's movements or efforts to rub the muzzle off, and thus is avoided, in great measure, the liability of the animal being chafed, or of the muzzle being rubbed off.

What we claim as new, and desire to secure by Letters Patent in a calf-weaner, is—

1. Nose-bulbs connected with the muzzle by swivel-joints, substantially as and for the purposes described.

2. The swivel nose-bulbs A A', made of metal or other hard material, and covered with rubber or other elastic or soft substance, substantially as and for the purposes described.

3. The wooden block C, forming a wooden bearing-surface, in combination with wires B B', plate b , and spurs $b^1 b^2 b^3$, substantially as described.

4. The wires B B', having nose-bulbs A A' at one end, and spurs $b^1 b^2$ at the other end, and bent and adjusted as described and shown, in combination with plate b and block C, substantially as and for the purposes described.

5. The combination of the swivel-bulbs A A', wires B B', plate b , wooden block C, locking-hook c' , and spurs $b^1 b^2 b^3$, substantially as and for the purposes described.

In testimony that we claim the foregoing as our own invention, we affix our signatures in presence of two witnesses.

J. S. MAUGHLIN.
WM. C. MARR.

Witnesses:

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