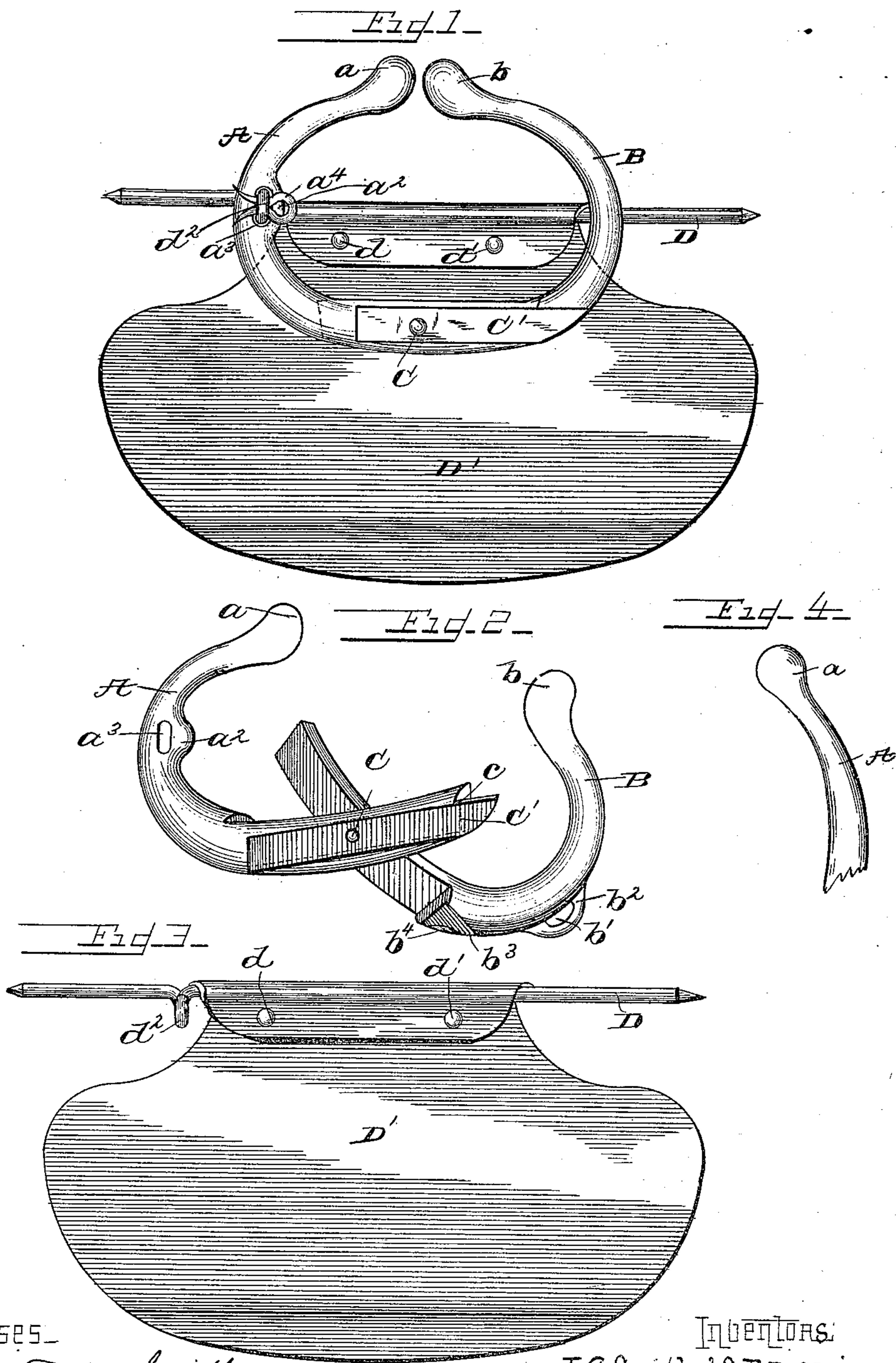


(No Model.)

J. A. SMITH & S. R. LIBBEY.
CALF WEANER.

No. 438,247.

Patented Oct. 14, 1890.



Witnesses—

G. A. Taubenschmitt,
H. C. Johnson

Inventors—

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UNITED STATES PATENT OFFICE.

JAMES A. SMITH AND SAMUEL R. LIBBEY, OF LINCOLN, KANSAS; SAID
LIBBEY ASSIGNOR TO SAID SMITH.

CALF-WEANER.

SPECIFICATION forming part of Letters Patent No. 438,247, dated October 14, 1890.

Application filed May 6, 1890. Serial No. 350,733. (No model.)

To all whom it may concern:

Be it known that we, JAMES A. SMITH and SAMUEL R. LIBBEY, of Lincoln, Lincoln county, Kansas, have invented certain new and useful Improvements in Combined Calf-Weaners and Cattle-Leaders, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

Our invention relates to a combined calf-weaner and cattle-leader designed to be attached to the cartilage in the calf's nose, the parts of the weaner being so constructed as to interpose a barrier between the calf's nose and the cow's udder whenever the calf attempts to suck.

Our invention consists of two semi-elliptical parts pivoted together and having knobs, which engage the cartilage in the calf's nose, the said parts being held in a locked position by means of a spring. One of these semi-elliptical parts is provided with a downwardly-projecting lug having a hole through it, and the other with a lug projecting from its side, also perforated. A wire having a shield attached to it is passed through said perforated lugs, said wire being bent upon itself, in order to pass up through the side lug, where it is secured by means of a pin.

In the drawings which form a part of this specification, Figure 1 is a plan view of the semi-elliptical parts—wire and shield. Fig. 2 is a perspective view of the two semi-elliptical parts in their open position. Fig. 3 is an elevation of the shield secured to the pivoted wire, also showing the wire bent upon itself; and Fig. 4 is a view of one of the semi-elliptical portions, parts being broken away.

In the drawings, A and B are the semi-elliptical parts, pivoted together at C, said parts A and B having a slight upward curve and being provided with enlarged or knob-like ends a and b , which serve to press against opposite sides of the central cartilage in the calf's nose. Of course it will be understood that a portion of the parts A and B is cut away at the point of pivoting, in order that this part of the device may be of substantially the same thickness as the rest. The part A

is made wider or flattened out at A^2 , and an eye a^3 is formed therein. The other part B is also provided with an eye b' , formed by a downwardly-extending perforated lug b^2 . The wire D is sharpened at both ends and has secured to it a shield D' by means of rivets d and d' . Said wire D is bent upon itself at d^2 . This bent portion is spread out, forming an eye. The part A has a channel or groove c , (represented by dotted lines in Fig. 2,) and a spring c' is secured therein by means of the rivet C, which pivots the parts A and B. The part A has a cut-away portion b^3 , having a recess b^4 . We prefer to make the parts A and B as shown in Fig. 4—that is, bend them so that the ends will fall outside of the plane of the perpendicular.

The operation of our invention is as follows: The parts all being secured together and locked, the operator places his thumb-nail in recess b^4 and raises the spring c' clear of the shoulder formed by the cut-away portion b^3 and pulls the parts A and B apart, the free end of the wire D adjusting itself by sliding in eye b^2 as the parts A and B are opened and closed. By a simple pressure of the hand after the device is properly placed with the knobs a and b in the calf's nose the parts close and lock themselves.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

In a calf-weaner, the combination of the semi-elliptical parts A and B, pivoted together, the groove c , a spring c' , secured therein, a flattened portion a^2 , an eye a^3 , formed therein, a cut-away portion b^3 , recess b^4 in said cut-away portion, a lug b^2 and eye b' formed therein, with a wire D bent upon itself at d^2 , thus forming an eye, and a shield secured to said wire, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

JAMES A. SMITH.
SAMUEL R. LIBBEY.

Witnesses:

W. CHANDLER,
J. S. JACOBS.