

(No Model.)

H. L. JONES.  
CALF WEANER.

No. 349,104.

Patented Sept. 14, 1886.

Fig. 1.

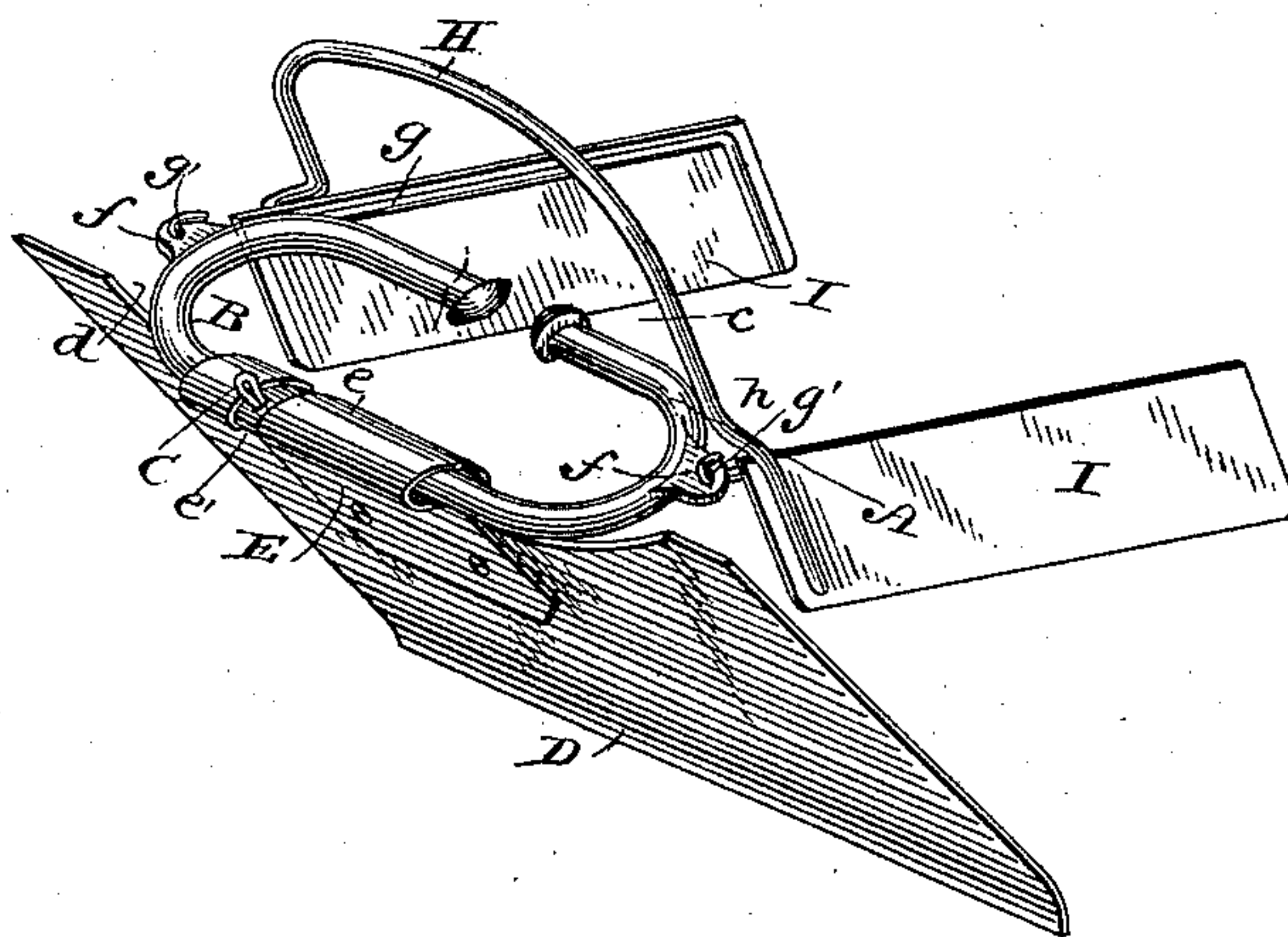


Fig. 2.

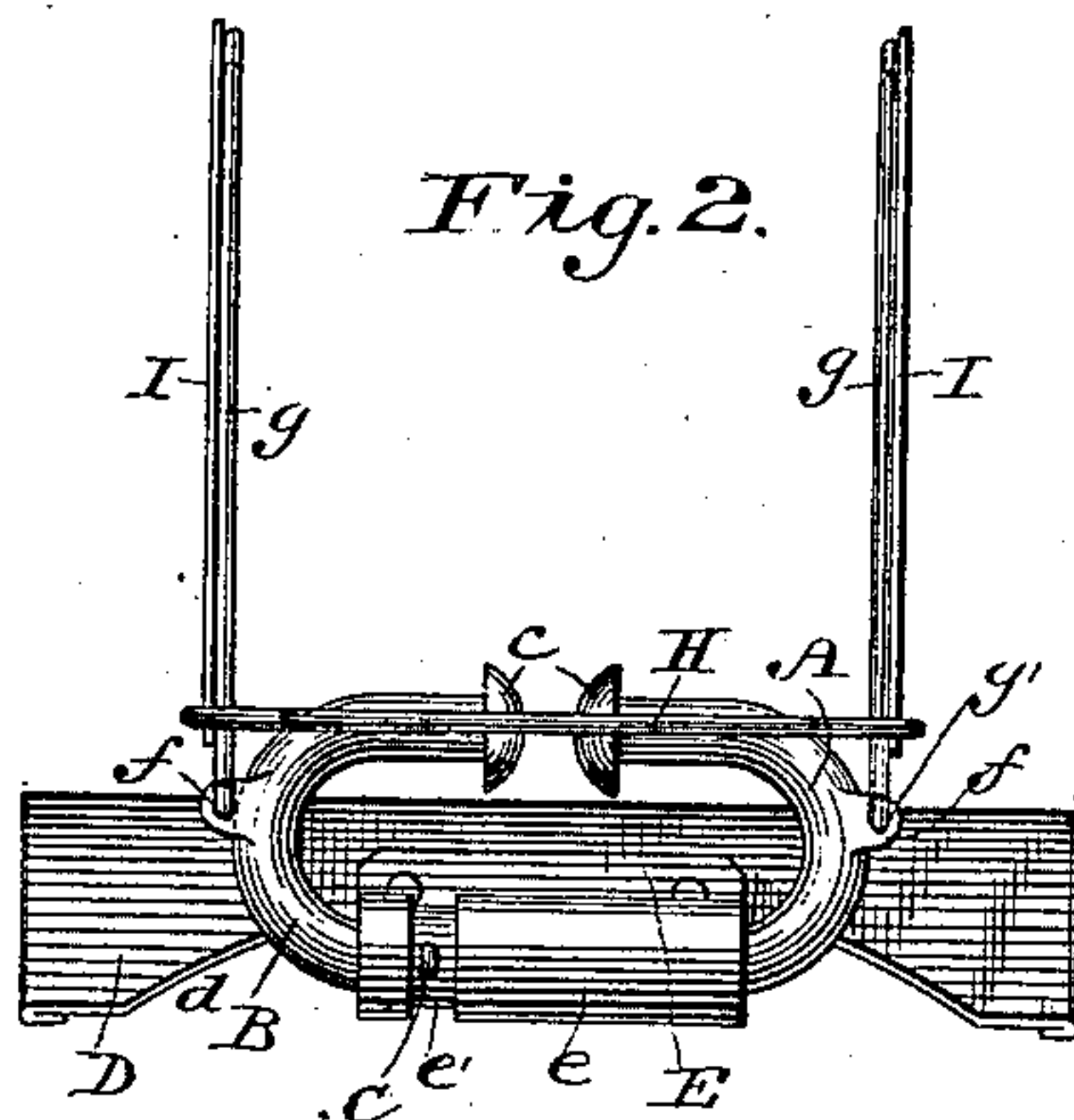
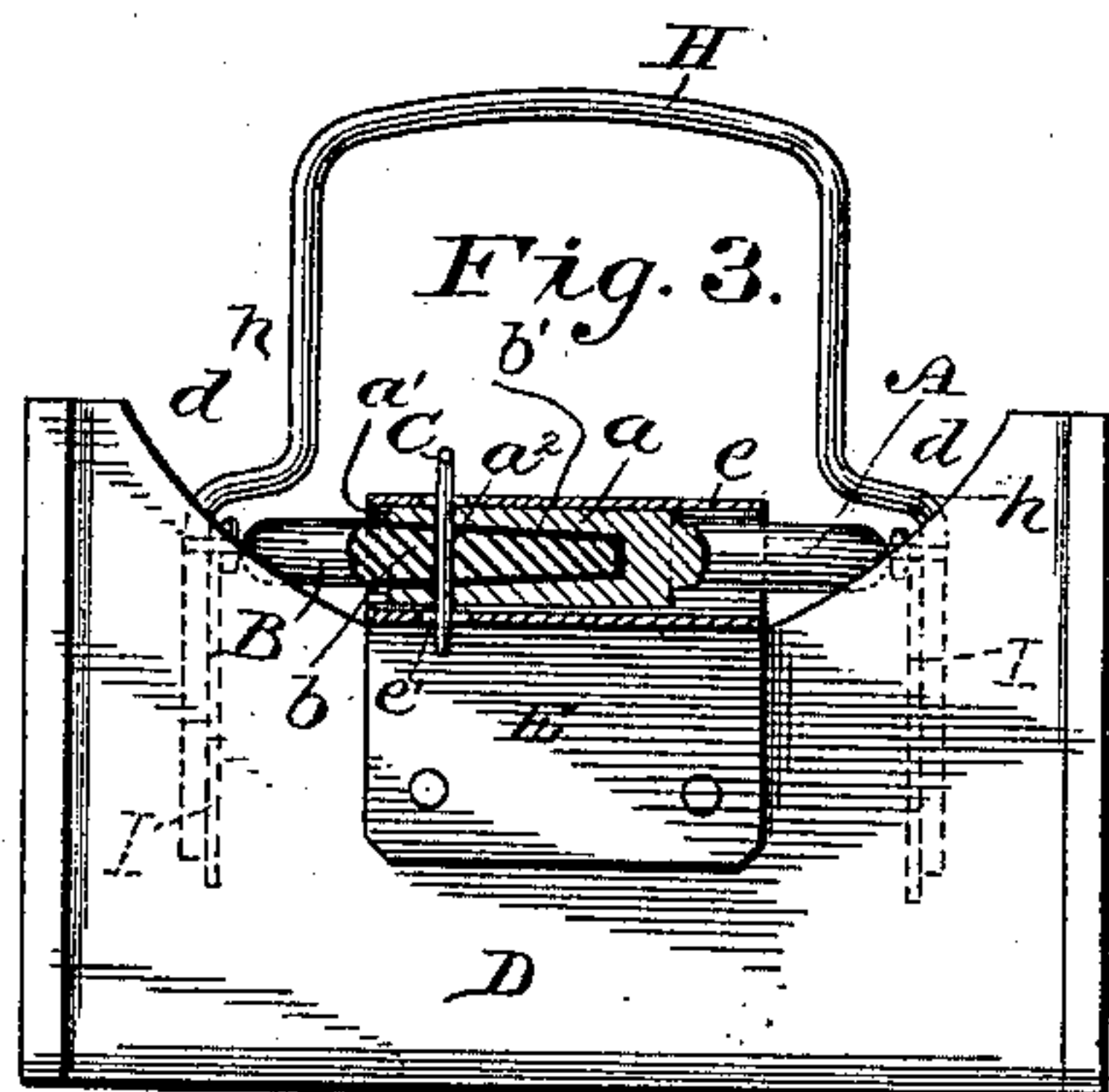


Fig. 3.



Witnesses

H. W. Elmore,  
E. L. Siggel.

Inventor  
Harvey L. Jones.

By his Attorneys,

C. A. Snow & Co.



# UNITED STATES PATENT OFFICE.

HARVEY L. JONES, OF COFFEYVILLE, KANSAS, ASSIGNOR OF ONE-HALF TO  
RICHARD ANDERSON, OF SAME PLACE.

## CALF-WEANER.

SPECIFICATION forming part of Letters Patent No. 349,104, dated September 14, 1886.

Application filed March 10, 1886. Serial No. 194,738. (No model.)

*To all whom it may concern:*

Be it known that I, HARVEY L. JONES, a citizen of the United States, residing at Coffeyville, in the county of Montgomery and State of Kansas, have invented a new and useful Improvement in Calf-Weaners, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to improvements in calf-weaners; and it consists of the peculiar and novel construction and combination of parts, substantially as hereinafter fully set forth, and specifically pointed out in the claims.

The primary object of my invention is to provide an improved weaner, which can be easily and quickly adjusted upon the nose of a calf; to provide a front shield, which can be adjusted vertically over the mouth of the calf or project outwardly therefrom at right angles; to provide side shields for clamping or bearing upon the sides of the calf's jaws, and to provide an improved weaning device that shall be simple and durable in construction, effective for the purposes designed, and cheap and inexpensive of manufacture.

In the accompanying drawings, Figure 1 is a perspective view of my improved calf-weaner, showing in dotted lines the front shield thereof adjusted to an approximately horizontal position. Fig. 2 is a plan view thereof. Fig. 3 is a vertical sectional view on the line  $x x$  of Fig. 2.

Referring to the drawings, in which like letters of reference indicate corresponding parts in all the figures, A B designate the clamps, which are made approximately U shape in form, one arm of each clamp having an enlarged head or knob,  $c$ , at its outer end, that is adapted to fit within the nostrils of the calf and bear against the cartilage that divides the nostrils. One end of the clamp A has an enlarged bearing,  $a$ , formed thereon, which is preferably made cylindrical in form; and this bearing has a socket,  $a'$ , which is square or rectangular in cross-section, and has a transverse opening or aperture,  $a''$ , in its inclosing walls. The arm  $b$  of the clamp B is made of a shape and size corresponding to the shape and diameter of the socket  $a'$ , in which it fits

very snugly to connect the clamps together when they have been fitted to the calf's nose, and to prevent the clamps from becoming accidentally detached or separated from one another a spring key or pin, C, is passed through the aperture  $a''$  and an opening,  $b'$ , in the squared end of the arm  $b$ .

D designates the front shield, which is preferably made of sheet metal and rectangular in form. The upper edge of the shield is hollowed out or cut away, as at  $d$ , and to the curved edge is secured a plate, E, which is also made of sheet metal and bent upon itself to provide a cylindrical section or socket,  $e$ , which fits loosely over and is free to turn or rotate on the bearing  $a$  of the clamp A. The ends of the plate are fitted on opposite sides of the shield and riveted thereto; or, if it is desired, the shield and socket  $e$  may be cast in one piece. The cylindrical wall of the socket  $e$  has a circumferential slot,  $e'$ , formed therein, which opens into the chamber of the socket, and through this slot the ends of the key or pin C project.

It will be observed that when the shield is in its vertical position the lower end of the key bears against the outer face of the shield, and thus prevents any forward movement of the shield; but when it is desired to allow the animal to graze, the pin is withdrawn from engagement with the shield, which is then turned forward, and the pin pushed through the aperture  $a''$ , to bear against the rear face of the shield, in which position the shield is free to rotate or turn on the bearing of the clamp, so that when the animal puts its nose to the ground the lower curved edge,  $d'$ , of the shield will strike the ground and cause the shield to be moved upwardly out of the way.

The clamps A B are provided with perforated lugs or studs  $f$ , to which are loosely or pivotally connected eyes  $g'$ , formed on supporting-rods  $g$ , to which are secured the side shields, I, which are arranged in parallel planes on opposite ends of the clamps, and adapted to bear on the sides of the jaws of the calf. The side shields are normally pressed toward each other and against the jaws of the calf by a spring, H, which has the bent or angular arms  $h$  secured to the forward ends of



the shields, to connect them together and hold or support them in proper position.

By means of the side shields, I, the calf is prevented from taking the teat of the mother in at the sides of its mouth, which it is very liable to do when the side shields are omitted or dispensed with, and by the use of the side shields I thereby greatly increase the efficiency of the device at a very small additional expense. The spring that connects the shields forces or draws the latter toward, and they bear on, the jaws of the calf, to prevent accidental displacement of the device should the animal attempt to detach it.

The operation of my invention will be readily understood from the foregoing description, taken in connection with the accompanying drawings.

It will be observed that I provide a device for weaning calves which is very simple and strong in its construction, thoroughly effective for the purposes, is comparatively cheap and inexpensive of manufacture, and readily applied or detached and adjusted for use.

I do not desire to limit myself to the exact details of construction and form and proportion of parts herein shown and described as an embodiment of my invention, as I am aware that many changes therein can be made.

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

1. In a calf-weaner, the combination of the clamps, a key passing through the connected ends thereof, and a front shield having a tubular socket, *e*, provided with a slot, *e'*, loosely fitted on the clamps, and having the ends of the key passed through the slot therein, substantially as described.

2. In a calf-weaner, the combination of the clamps, one having an open angular socket and the other an arm fitted snugly in the socket, a key passing through the socket and arm, and a front shield carried by the clamps, substantially as described.

3. In a calf-weaner, the combination of the clamps having the lugs, the parallel side shields pivotally connected to the lugs at their forward ends, and a spring connecting the side shields at their pivoted ends, substantially as described.

4. The combination, with the detachable clamps, of the front shield having a slotted socket or sleeve loosely journaled on the clamps, and a pin passing through the clamps and the slot of the socket or sleeve, said pin being adapted to impinge against the front side of the shield to prevent it from swinging outwardly, or to be adjusted to bear against the reverse or rear side of the shield, to adapt the shield to be elevated when the animal lowers its head to graze, substantially as described.

5. The combination, with the clamps carrying a front shield adapted to be attached to an animal's nose, of the side shields pivoted to the clamps and arranged in rear of the latter and an arched spring connecting the side shields to normally force them toward each other, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

HARVEY L. JONES.

Witnesses:

H. H. LUKEN,  
R. ANDERSON.