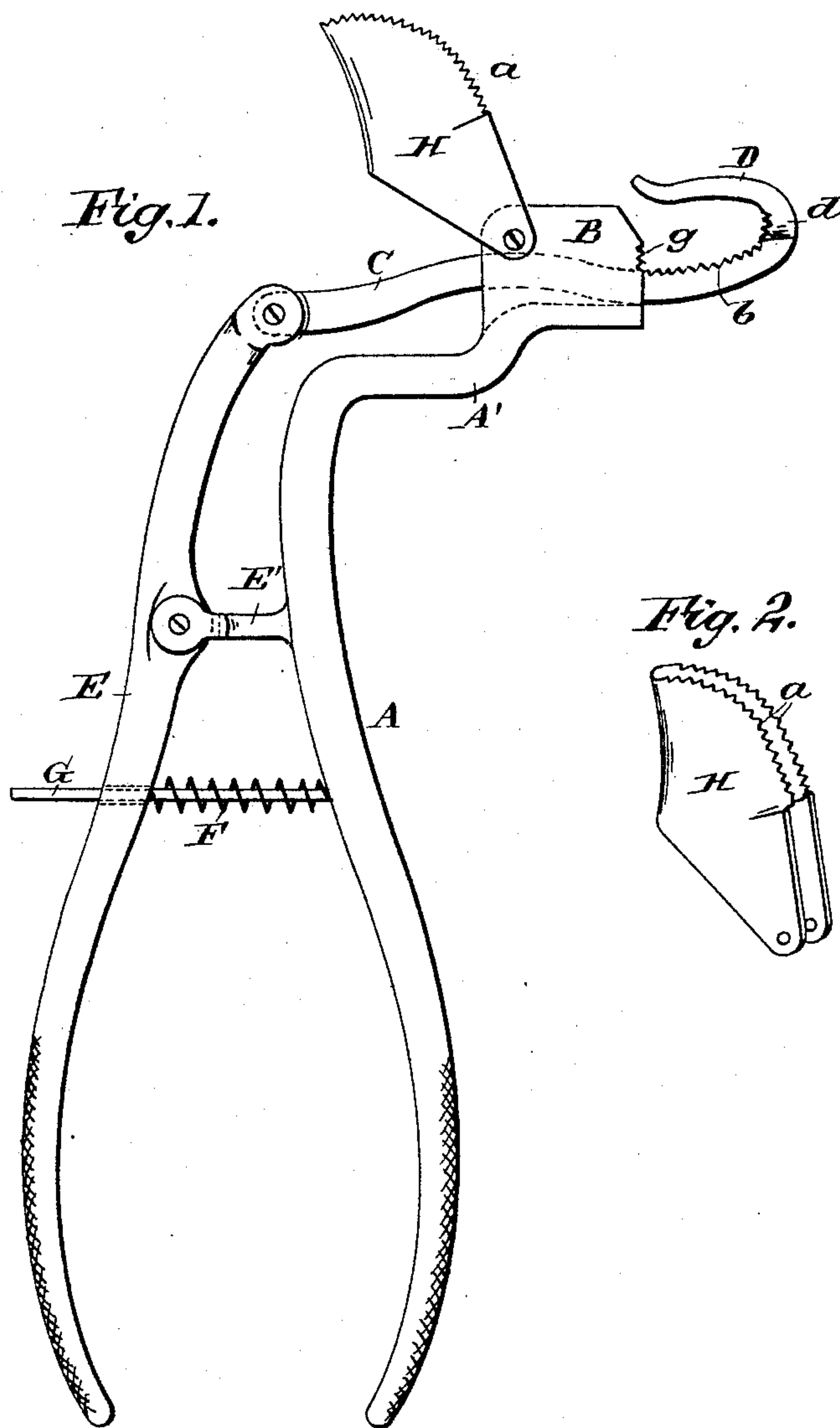


(No Model.)

J. SOMERS.
SURGICAL INSTRUMENT.

No. 327,204.

Patented Sept. 29, 1885.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JAMES SOMERS, OF MORO, OREGON.

SURGICAL INSTRUMENT.

SPECIFICATION forming part of Letters Patent No. 327,204, dated September 29, 1885.

Application filed March 16, 1885. (No model.)

To all whom it may concern:

Be it known that I, JAMES SOMERS, of Moro, in the county of Wasco and State of Oregon, have invented a new and Improved Surgical Instrument, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved surgical instrument for castrating horses and other animals.

The invention consists in the combination, with two pivoted handles, of a hook having its stem passed through a box formed on one handle-lever, the stem being pivoted to the other handle-lever, and the hook, as well as the box, having serrated edges.

A clamp-plate having serrated edges is pivoted to the box, and serves to press the testicles against the serrated edge of the hook, whereby the blood-vessels and arteries are twisted before being severed, and hemorrhage is prevented.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a side view of my improved castrating-instrument. Fig. 2 is a perspective view of the clamping-plate.

A handle-lever, A, has its upper end, A', bent rectangularly, and at the end of the part A' a longitudinally apertured or slotted lug or box, B, is formed, through which a sliding piece, C, passes, which has a hook, D, formed on one end, and has the other end pivoted to another handle-lever, E, which is pivoted to a projection, E', on the handle-lever A.

Between the handle-levers A E a spring, F, is coiled around a rod, G, projecting from the handle-lever A and through an aperture in the handle-lever E, which spring presses the handle-levers apart.

A clamping-piece, H, having a U-shaped cross-section, is pivoted to the hollow or slotted lug B, and has segmental serrated edges *a*.

The piece C has its upper edge serrated at *b*, and the hook D has a serrated cutting-edge, *d*.

On the end of the lug B serrated cutting-edges are formed at *g*.

The instrument is used in the following manner: The animal is secured and the testicles exposed in the usual manner. The instrument is held in the right hand, the parts being in the position shown in Fig. 1, and the cords and ligaments are passed into the hook D through the opening between the end of the prong of the hook and the corner of the lug B, and the hook is pressed down against the bottom of the opening or slot in the lug B.

The thumb of the left hand is pressed on the clamp-plate H, which brings the serrated edge *a* of the plate H opposite the serrated edge *b* of the hook D. The handle-levers are then pressed together, and at the same time the clamp-piece H is pressed toward the hook D to keep the serrated edges *a b* well together for the purpose of twisting the arteries and blood-vessels until the serrated cutting-edges or combs *d g* are brought together by greater pressure on the handles A E, and sever the cords and ligaments, which then drop.

As the blood-vessels and arteries are twisted together before they are severed, hemorrhage is prevented without cauterizing or tying, and the operation is performed rapidly.

The instrument can be taken apart and cleaned easily. It is to be made of steel or other suitable material.

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

1. In an instrument for castrating animals, the combination, with a pair of pivoted handles, of a hook connected with one handle and a sliding box on the other handle, the adjacent faces of the hook and box being serrated, as at *d g*, substantially as set forth.

2. In an instrument for castrating animals, the combination, with a pair of pivoted handles of which one is provided with an apertured lug or box, of a clamping-plate pivoted to the box or lug, and a hook pivoted to the other handle, the stem of the hook passing through the box, substantially as herein shown and described.

3. In an instrument for castrating animals, the combination, with the pivoted handle-levers A E, of the slotted or apertured

lug or box B, formed on one end of the handle E, and having serrated cutting-edges *g*, the hook D, formed on a stem, C, passed through the box B and pivoted to the handle-lever E, the said hook being provided with serrated parts *b d*, and the clamp-plate H, pivoted to the box B, and having serrated edges *a*, substantially as herein shown and described.

JAMES SOMERS.

Witnesses:

M. L. MACKENZIE,
JOHN B. SCOTT.