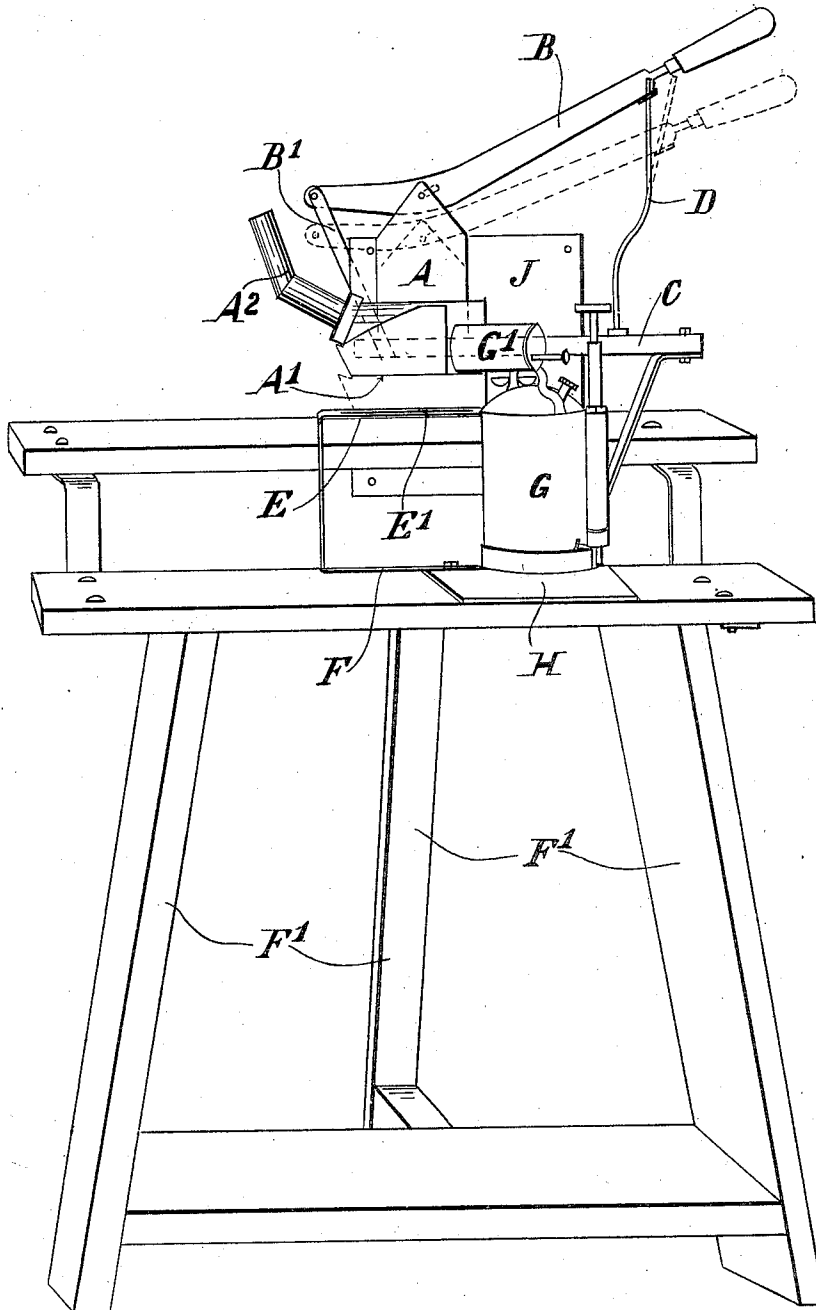


S. J. PHILLIPS.
CUTTING AND CAUTERIZING DEVICE.
APPLICATION FILED SEPT. 29, 1909.

988,140.

Patented Mar. 28, 1911.



Witnesses.

Jesse N. Lutton.

C. M. Rommers

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Atty-

UNITED STATES PATENT OFFICE.

STEPHEN JOHN PHILLIPS, OF GLENCOE WEST, SOUTH AUSTRALIA, AUSTRALIA.

CUTTING AND CAUTERIZING DEVICE.

988,140.

Specification of Letters Patent. Patented Mar. 28, 1911.

Application filed September 29, 1909. Serial No. 520,156.

To all whom it may concern:

Be it known that I, STEPHEN JOHN PHILLIPS, a subject of the King of Great Britain, residing at Glencoe West, in the State of South Australia, in the Commonwealth of Australia, have invented a new and useful Improved Cutting and Cauterizing Device, of which the following is a specification.

This invention relates to improvements in cutting and cauterizing devices and has for its object to provide a simple and inexpensive device having few parts and a greater capacity of operation by which the cutting and searing of animals may be easily and expeditiously effected concurrently in the one operation and the parts operated upon readily healed.

I accomplish the objects by employing a movable cutter or knife, to which heat is continuously applied, working in a frame against the tension of a return spring.

In order that my invention may be clearly understood I will now describe the same with reference to the accompanying drawing which is a perspective view of my improved device.

In said drawing A designates the movable cutter or knife of any suitable form or construction operated by a lever or handle B to which it is attached. The lever or handle B is pivoted at one end to a connecting piece B' which is mounted on a stationary lower frame C. A suitable spring D is interposed between and connected to the lever or handle B and lower frame C whereby when the cutter or knife A is depressed it will be expeditiously and automatically returned to its raised or normal position.

The cutter or knife A is arranged to extend past the side of the stationary lower frame C, and at the normal position is set a short distance above a bed plate or cutting block E which has a slot or recess E' into which the inside beveled edge A' of the cutter or knife enters at each depression of the lever or handle B, the edge of said recess forming a cutting edge which coöperates with the beveled edge A'.

The stationary lower frame C and the bed plate or cutting block E are preferably supported upon a frame F mounted on standards F' but an ordinary post or rail may be

used to provide a support for the cutting block if desired.

The preferred means for continuously applying heat to the knife or cutter A consists of a lamp G supported upon a bed plate H, said lamp being adapted to continuously supply and maintain a jet of flame through a tube G' and an opening in the cutter or knife A, a flue or pipe A² being provided for the exit of the flame and the products of combustion. The cutter or knife A is so arranged that when in its highest position the inside beveled cutting edge A' of the movable knife or cutter is continuously subjected to a blast of heat and the maximum quantity of heat is maintained throughout its operation. Other suitable means may be provided for continuously applying the heat to the knife A such as a gas jet or electricity.

In operation, the tail of the animal or portion to be operated upon, is placed between the bed plate or cutting block E and the cutting edge A' of the knife or cutter A the beveled portion of the movable cutter or knife A being inside. The lever or handle B is depressed and the cutter or knife A descends into the slot or recess E' (as shown in dotted lines) and under the influence of the continuously maintained heat the part is cut and seared expeditiously and concurrently in one operation without loss of blood. Upon releasing the lever or handle B the released tension of the spring D automatically and expeditiously returns it with the attached cutter or knife A to the normal position for repeated and expeditious use.

The device is preferably provided with a side plate J to protect the parts not operated upon and a suitable covering for the lamp or heated portions is also provided.

What I claim is:—

1. In a cutting and cauterizing device, the combination of a bed-plate, a cutting member, a lever to move the latter onto the plate, a spring to raise the lever, and a heating device adapted to continuously heat the cutting member.

2. In a cutting and cauterizing device the combination with a bed-plate having a recess therein, a knife having a beveled edge

adapted to cooperate with the edge of the recess, a lever carrying said knife adapted to move the latter into the recess, a spring to automatically return the lever to its normal position, and means to project a heating medium onto said knife.

5 In testimony whereof I have signed my

name to this specification in the presence of two subscribing witnesses.

STEPHEN JOHN PHILLIPS.

Witnesses:

FRANCIS DAVISON,
HENRY TOLLENS WARD.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
