G. W. KELLEY.

Animal-Trap.

No. 163,594. Patented May 25, 1875.

Fig. 1.

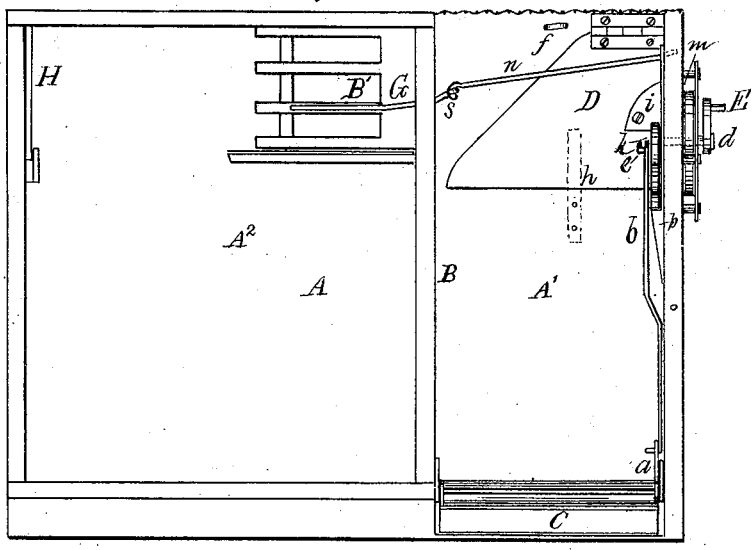


Fig. 2.

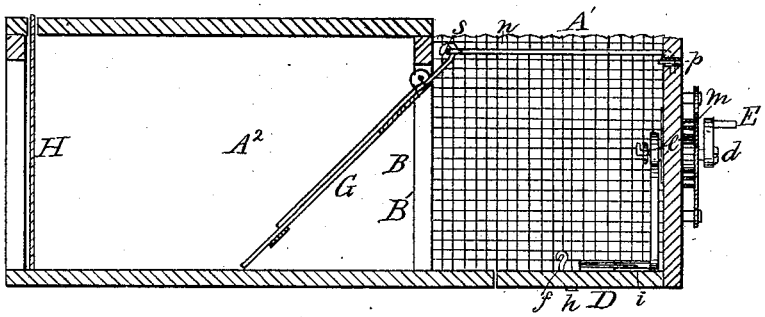
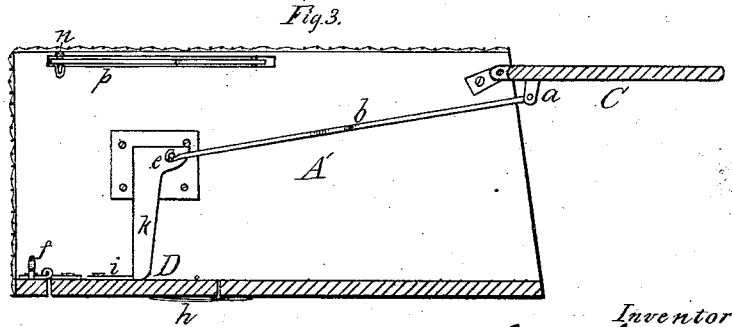


Fig. 3.



Witnesses;
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UNITED STATES PATENT OFFICE.

GEORGE W. KELLEY, OF WABASH, INDIANA.

IMPROVEMENT IN ANIMAL-TRAPS.

Specification forming part of Letters Patent No. **163,594**, dated May 25, 1875; application filed October 1, 1874.

To all whom it may concern:

Be it known that I, GEORGE W. KELLEY, of Wabash, county of Wabash and State of Indiana, have invented certain new and useful Improvements in Animal-Trap, of which the following is a specification:

The nature of my invention consists in the construction and arrangement of an animal-trap, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which forms a part of this specification, and in which—

Figure 1 is a plan view of my trap. Fig. 2 is a longitudinal vertical section, and Fig. 3 a transverse vertical section of the same.

A represents a box, of any suitable dimensions, divided by a vertical partition, B, into two compartments, A^1 and A^2. At one end of the compartment A^1 is a door, C, hinged at its upper end, and provided on one side with an arm, *a*, which is, by a rod, *b*, connected with a crank-pin, *e*, on the inner end of a shaft, *d*, that passes through the side of the box, near the other or rear end of the compartment A^1. The top and rear end of this compartment are open and covered with wire-cloth, as shown, and at the rear end on the bottom is the bait-hook *f*. In front of the bait-hook the bottom of the box is made with a hinged treadle, D, which is held up from underneath by a spring, *h*, and is on its upper side provided with a stop, *i*. From the inner end of the shaft *d* projects, at right angles therewith, an arm, *k*, of suitable length, to be caught by said stop *i*. In a casing outside of the box A is a coil-spring, *m*, wound around the shaft *d*, one end of said spring being attached to the shaft and the other to the casing. On the outer end of the shaft is a crank, E, for revolving the shaft to wind up the spring.

In the partition B, at the rear end of the compartment A^1, is an opening, B^1, leading into the compartment A^2; and in this latter compartment, at the upper end of the opening B^1, is hinged a slat-gate, G, which, when down, stands in an inclined position. At one or both sides of this gate are suitable guides or partitions to prevent the animal from passing through at the side of the gate. Opposite to the opening B^1, in the other side of the compartment A^2, is an opening covered by a sliding glass plate, H.

From the upper end of the gate G extends an arm, *s*, which is, by a rod, *n*, connected with a pivoted catch, *p*, arranged in a slot near the top of the outer wall of the compartment A^1, and at such a point that the arm *k* of the shaft *d* will come in contact therewith.

The operation of this trap is as follows: By means of the crank E the shaft *d* is revolved, so as to wind up the spring *m;* and by allowing the arm *k* to rest against the stop *i* on the treadle D the trap will be set, as the crank-pin *e* is so arranged as, in that position, to hold the door C open by means of the rod *b* and arm *a*. When the animal now enters the compartment A^1 and attempts to reach the bait on the hook *f*, it must step on the treadle D, which gives and releases the arm *k*, so as to let the spring *m* operate to revolve the shaft *d* in the opposite direction. The shaft will only make one-half of a revolution, as the arm *k* is then stopped by the catch *p;* and this movement closes the door C instantly, so that the animal is then confined in the compartment A^1. Seeing light, however, in the compartment A^2 the animal will immediately pass into the same through the opening B^1 and raise the gate G. As soon as the animal has rushed through, the gate at once falls down again, imprisoning the animal in the compartment A^2. The raising of the gate G, as just described, turns the catch *p*, by means of the arm *s* and rod *n* on its pivot, releasing the arm *k*, and allowing the spring *m* to give the shaft *d* another one-half revolution, or until the arm is stopped by the treadle-stop *i*. This movement opens the door C, thus setting the trap for another animal to enter.

By sliding out the glass plate H the animals may be dropped into hot water, or otherwise to be killed.

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

The combination of the box A with partition B, door C, gate G, connecting-rods *b n*, treadle D with stop *i*, catch *p*, and the shaft *d*, provided with spring *m*, crank-pin *e*, and arm *k*, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my invention I hereunto affix my signature.

GEORGE W. KELLEY.

Witnesses:
A. L. TYER,
PAUL HERRING.