

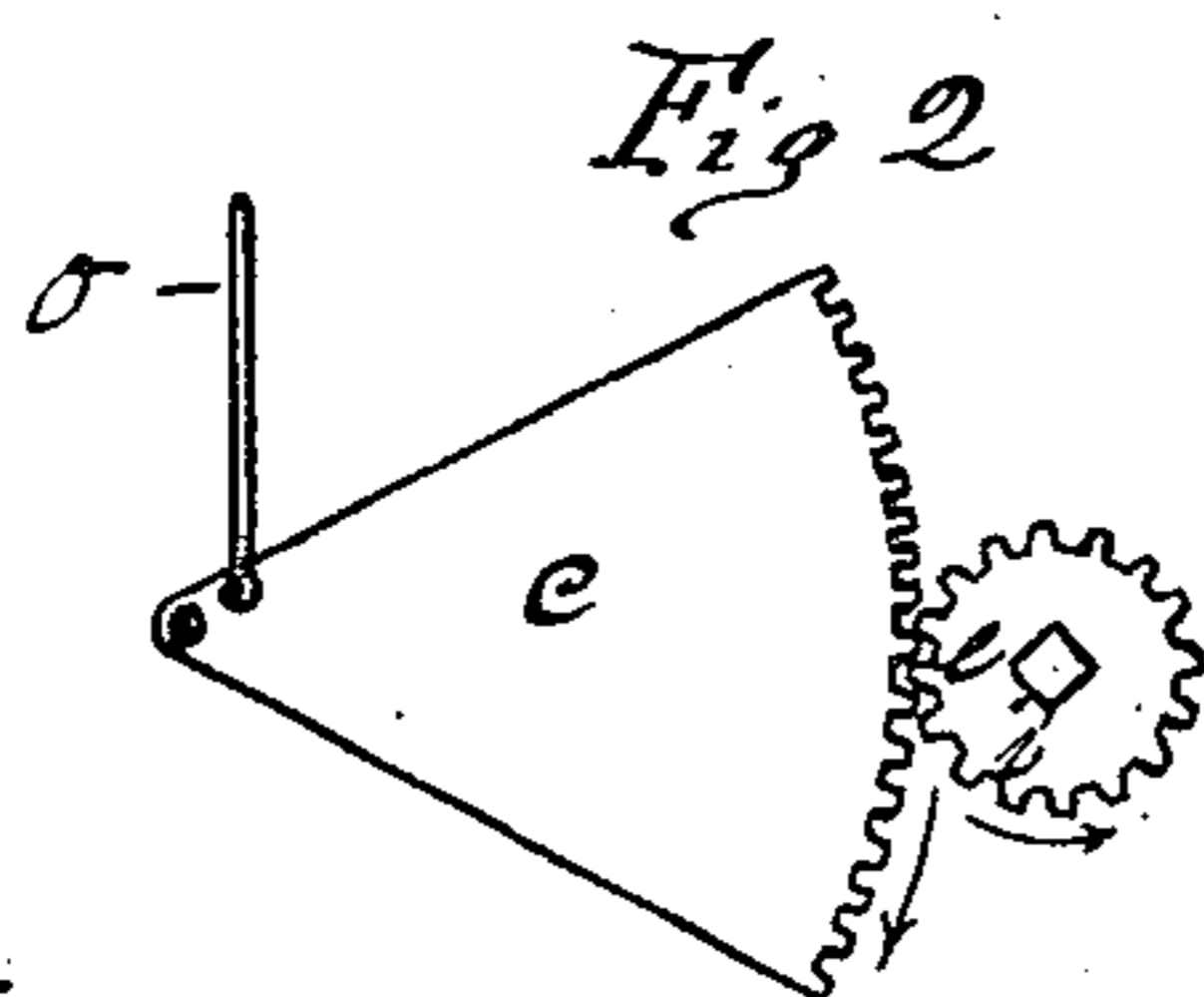
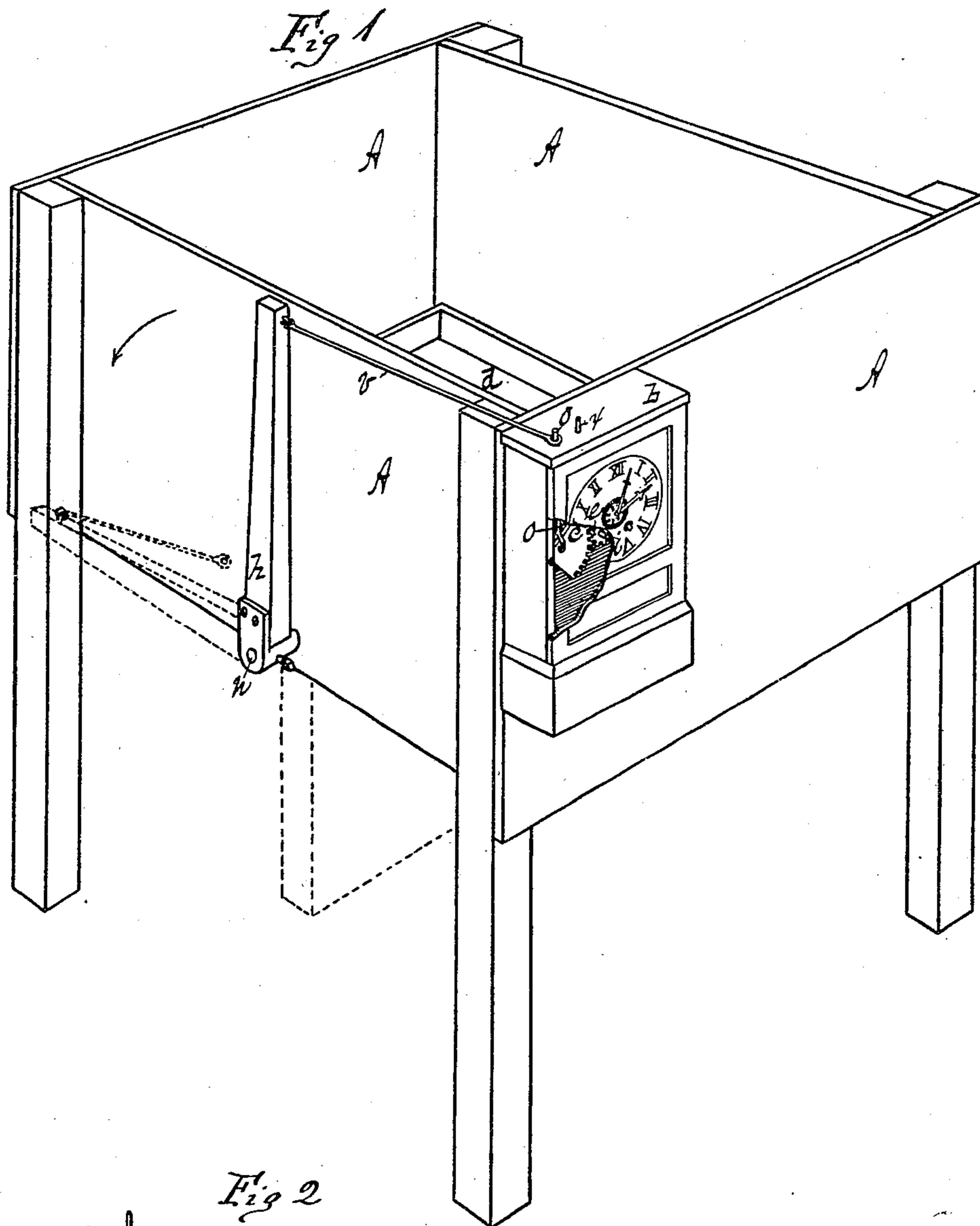
(No Model.)

V. M. BLAISDELL & C. A. WRIGHT.

AUTOMATIC FEED BOX FOR ANIMALS.

No. 248,909.

Patented Nov. 1, 1881.



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# UNITED STATES PATENT OFFICE.

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## AUTOMATIC FEED-BOX FOR ANIMALS.

SPECIFICATION forming part of Letters Patent No. 248,909, dated November 1, 1881.

Application filed June 14, 1881. (No model.)

*To all whom it may concern:*

Be it known that we, VASCO M. BLAISDELL and CHARLES A. WRIGHT, citizens of the United States, residing at Agawam, in the county of Hampden and State of Massachusetts, have jointly invented new and useful Improvements in Automatic Feed-Boxes for Animals, of which the following is a specification.

This invention relates to details of the construction of mechanism which operates between the feed-discharging devices of an automatic feed-box for animals and clock mechanism, the object being to simplify and render more effective said mechanism when it is required to operate under the strain of a heavy load of feed in one box or in many, and to better adapt said mechanism to control a series of said feed-boxes.

In the drawings forming part of this specification, Figure 1 is a perspective view of an automatic feed-box embodying our improvements. Fig. 2 is a view of detached parts of the operating mechanism.

In the drawings, A is the feed-box.

b is a clock-case, containing clock-work and an alarm attachment of ordinary construction. e is a gear-wheel fixed upon the main winding-pivot i of said alarm attachment.

c is a geared segment pivoted in the side of the clock-case b, and its toothed edge engages with gear e on pivot i.

o is a trip-rod whose lower end is pivotally attached to segment c, and its upper end projects up through the top of case b.

d is the bottom of box A, and is hung upon a transverse shaft, n, running from side to side of said box, near its bottom, and upon one end, projecting beyond the side of box A, is fixed a lever, h.

v is a rod pivoted to lever h, and having an eye in one end thereof, by which it is attached temporarily to the end of the trip-rod o when the latter projects above the top of case b.

x is a fixed pin in the top of case b, upon which the eyed end of rod v may be secured when the end of rod o is not in position to receive it as aforesaid.

The operation of our improved feed-box is as follows, whether our improvements be attached to a single box, as shown, or to the end one of a series of boxes, whose bottoms are all attached to a shaft which is a continua-

tion of shaft n, as one clock and alarm mechanism serves equally well to operate one or several boxes, to cause the feed to drop at such an hour as said mechanism may be set for: To put the box A in proper condition to receive the feed, lever h is brought up to the position shown in Fig. 1, causing bottom d to close the bottom of box A, and rod v is temporarily hooked onto pin x, so as to hold said lever in an upright position, provided that the end of rod o is not at this time projecting above the top of case b, in which case said rod v would be hooked directly onto the end of the said rod, as in Fig. 1. The feed is now placed in box A, and the alarm device of the clock is wound up by turning the winding-pivot i in a direction opposite to that indicated by the arrow at the border of wheel e in Fig. 2. This causes wheel e to revolve and carry the geared end of segment c upward, and the movement of the latter causes the end of rod o to project above the top of case b, as in Fig. 1, so that the end of rod v can be hooked onto it, as there shown. The alarm-ring of the clock is now set in the usual manner to cause the alarm mechanism to operate at a certain hour, when it is desired that the feed contained in box A shall be dropped into the manger for the animals below. When said hour arrives, and the alarm is let off, wheel e revolves with the pivot i, and said wheel and the geared end of segment c move in the direction indicated by the arrows in Fig. 2, causing rod o to be drawn downward and its upper end from within the eye of rod v, leaving lever h free. The weight of the feed upon the bottom b now causes the latter to swing down and drop the feed, the position of said bottom and of lever h at this point in the operation being indicated by the dotted lines in Fig. 1.

What we claim as our invention is—

In an automatic feed-box for animals, the combination, with the lever h, secured to shaft n and rod v, of the rod o, the geared segment c, wheel e, and the alarm mechanism of a clock, substantially as set forth.

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