

No. 662,391.

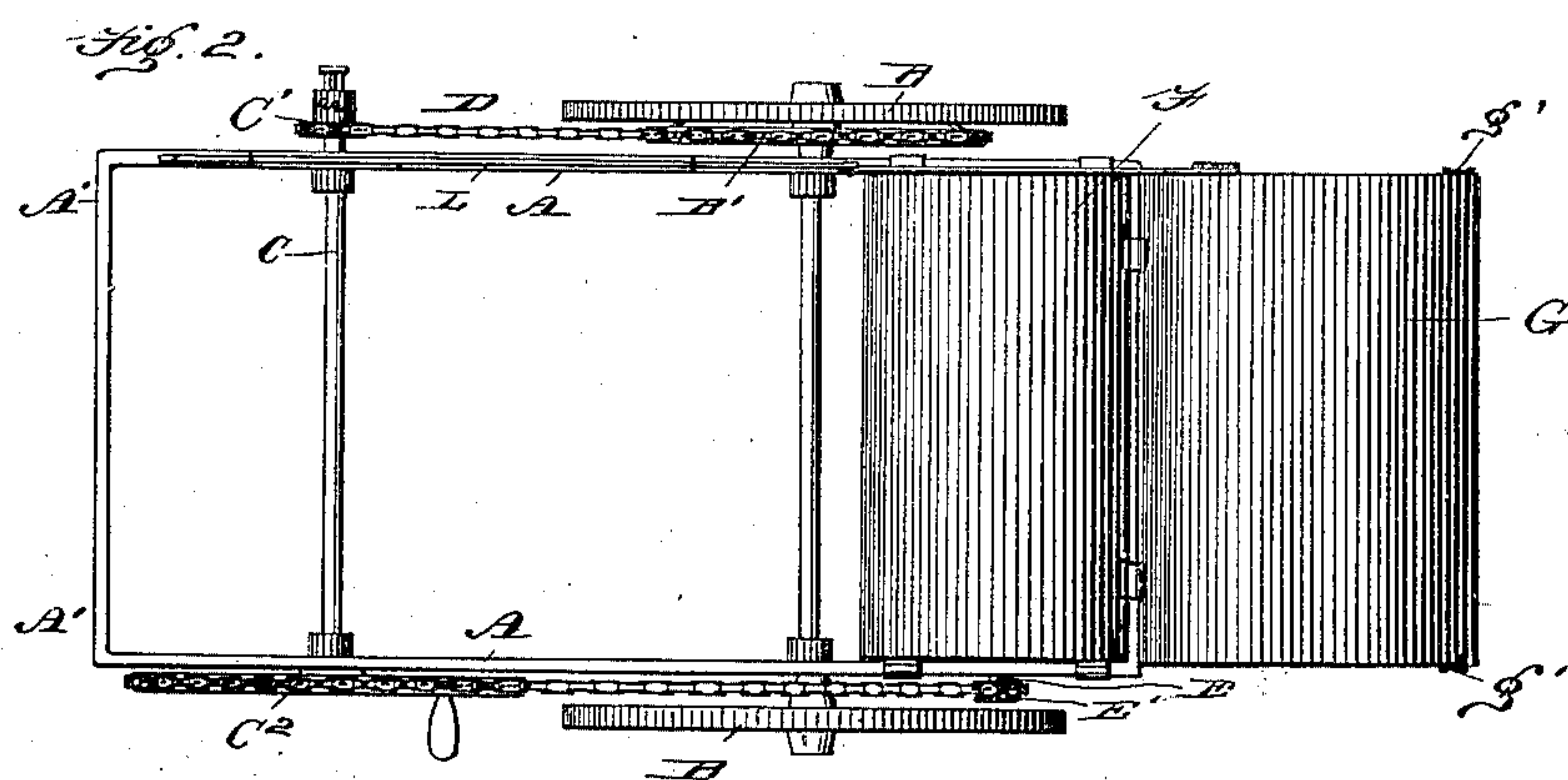
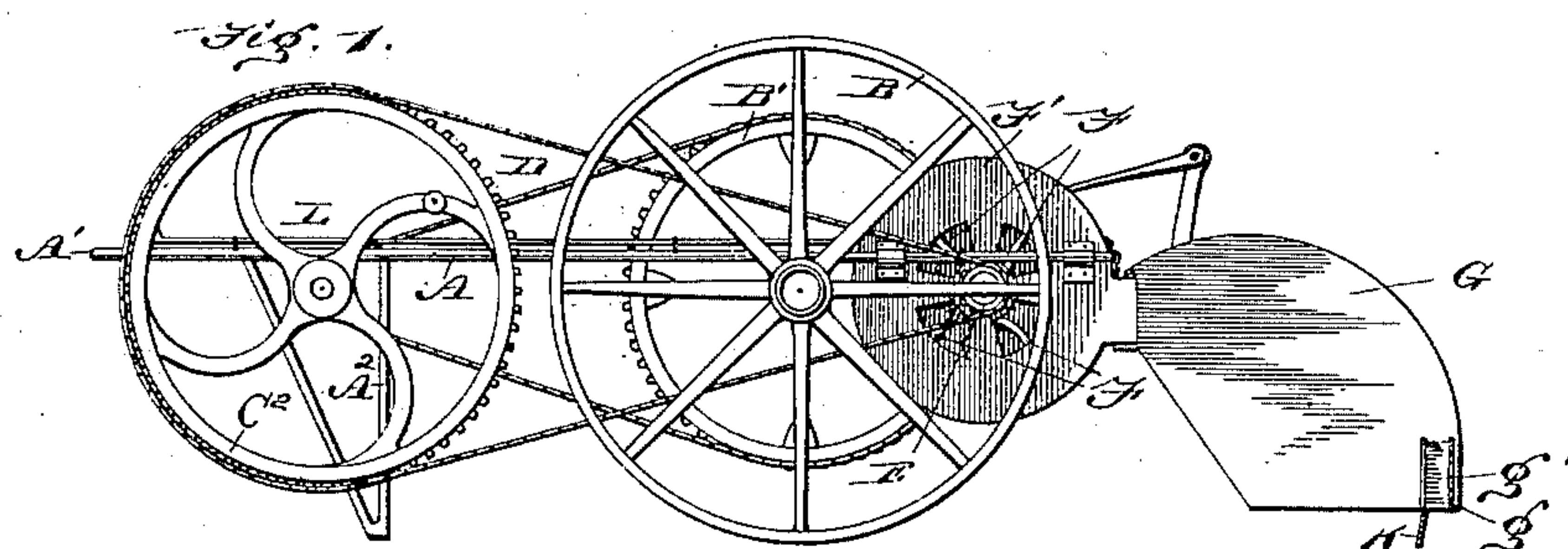
Patented Nov. 27, 1900.

B. F. BROWN.
INSECT DESTROYER.

Application filed Nov. 16, 1899.

(No Model.)

2 Sheets—Sheet 1.



Witnesses
Edwin B. A. Power, Jr.
Herbert B. Lanson

Inventor:
Benjamin F. Brown.
by *Edson Bros.*
Attorneys.

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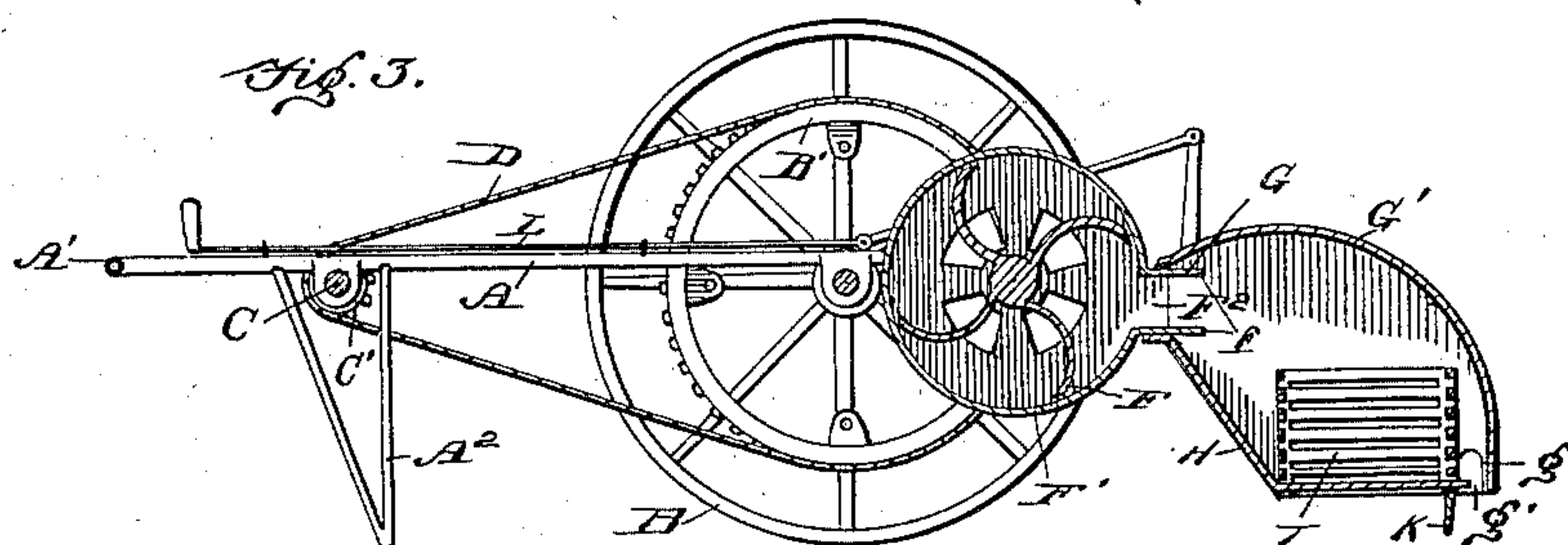
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B. F. BROWN.
INSECT DESTROYER.

(Application filed Nov. 18, 1899.)

(No Model.)

2 Sheets—Sheet 2.



Witnesses

Edwin D. H. Tower, Jr.
Robert D. Lawson

Inventor:

Benjamin F. Brown,

By Edson Bros.
Attorneys

UNITED STATES PATENT OFFICE.

BENJAMIN F. BROWN, OF WEDINGTON, ARKANSAS.

INSECT-DESTROYER.

SPECIFICATION forming part of Letters Patent No. 662,391, dated November 27, 1900.

Application filed November 16, 1899. Serial No. 737,217. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN F. BROWN, a citizen of the United States, residing at Wedington, in the county of Washington and State of Arkansas, have invented certain new and useful Improvements in Insect-Destroyers, &c.; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to new and useful improvements in machines for destroying insects and burning seeds of noxious weeds; and its object, among other things, is to provide a device of simple and durable construction which may be readily operated and easily moved from place to place.

To this end the invention consists in the novel construction and combination of parts hereinafter more fully described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of my improved device. Fig. 2 is a plan view thereof. Fig. 3 is a section on line 3 3, Fig. 2.

Referring to the drawings by letters of reference, A is the frame of the machine, formed of any suitable material, preferably metal tubing, mounted upon wheels B, and provided at one end with handles, as A'. Mounted upon the frame A, near the handles thereof, is a shaft C, at one end of which is secured a small sprocket C' and at the opposite end a large sprocket or hand-wheel C².

To one of the wheels B is secured a sprocket B', which is connected, by means of a chain D, to the small sprocket C' of the shaft C. The large sprocket C² is connected in a similar manner to a sprocket E', secured to one end of a second shaft E, mounted near the forward end of the frame A, and to which are secured the blades F of a suitable fan, which are inclosed in a preferably cylindrical casing F', mounted upon the frame A, as shown. Secured to the casing F', at the forward part thereof, is a flange G, to which is hinged a semicylindrical hood G', provided with an opening g in each end, near the front edge thereof, which is normally closed by means of a slide, as g'.

Secured to the casing, near the bottom there-

of, is a downwardly-extending shelf or bracket H, preferably of imperforate sheet metal and adapted to support a grate, as I. This grate is shown of box-like form, open at the sides and top only, and a small pan or receptacle J, of suitable material, is supported thereon by means of standards J' or in any other suitable manner.

End walls are provided between the flange G and the bracket H. Between said flange and bracket the casing F' is provided with a horizontal opening F², having an outwardly-extending flange f at each edge thereof, said opening and its flanges arranged in a plane above the top of the grate I, but below the pan J.

A plate, as K, is hinged to the lower forward edge of the shelf or bracket H, and its lower edge is adapted to drag normally over the ground when the machine is moved from place to place.

Suitable means are also provided for raising and lowering the hood G' while the machine is in operation. These means consist of a rod pivotally connected to the hood G at the upper surface thereof and extending rearwardly to a point adjacent to the handles A'. It is obvious that the hood can be readily raised or lowered by pulling or pushing the rod L backward or forward.

In operation fuel is placed within the grate I and lighted in any suitable manner. The hood G' is then lowered and the machine pushed forward. It will be obvious that the revolution of the wheels B will be communicated through the chains D and sprockets B', C', C², and E' to the fan F, creating a blast, which will be forced through the opening F² into and through the coals in the grate I. The air thus heated is guided downward by the hood G' and discharged between the lower edge thereof and the forward edge of the shelf H. By raising and lowering the hood the volume of heated air discharged may be regulated, and by opening the slides g' the air can be directed to the sides in increased volume. It will be understood that the plate K will prevent the blast from shooting back under the machine. Should it be desirable to operate the blast while the machine is stationary, as when burning stumps, &c., the shaft C may be disconnected from sprocket C' and

the fan driven by revolving the sprocket C² by hand.

It will be understood that any of the well-known means now used for changing gear
5 may be employed for regulating the revolution of the fan in this device.

In the foregoing description I have shown the preferred form of my invention; but I do not limit myself thereto, as I am aware that
10 modifications may be made therein without departing from the spirit or sacrificing the advantages thereof, and I therefore reserve the right to make such changes as fairly fall within the scope of my invention.

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

1. A device of the character described comprising a frame, a casing thereon having horizontal flanges, a fan in said casing, means for
20 operating said fan, a bracket secured to one of said flanges and provided with a shelf and a grate, a swinging hood covering or inclosing said grate, and a system of operating-le-
25 vers for said hood, substantially as set forth.

2. A device of the character described comprising a frame, a casing having horizontal flanges, a fan in said casing, means for operating said fan, a bracket secured to one of
30 said flanges, and provided with a shelf, a grate on said shelf, a swinging hood inclosing said grate, and secured to the upper one of said flanges, a system of levers for said hood, a guard-plate depending from said shelf, sub-
stantially as set forth. 35

3. The combination of a frame, a casing thereon having horizontal flanges, a fan in said casing, means for operating the fan, a
36 bracket secured to the lower horizontal flange and provided with a shelf, a grate on the shelf, 40
a guard-plate depending from the shelf, and a hood mounted on the upper horizontal flange and adapted to extend over the grate.

In testimony whereof I affix my signature in presence of two witnesses.

BENJAMIN F. BROWN.

Witnesses:

H. M. RIEFF,

I. A. KILLGORE.