

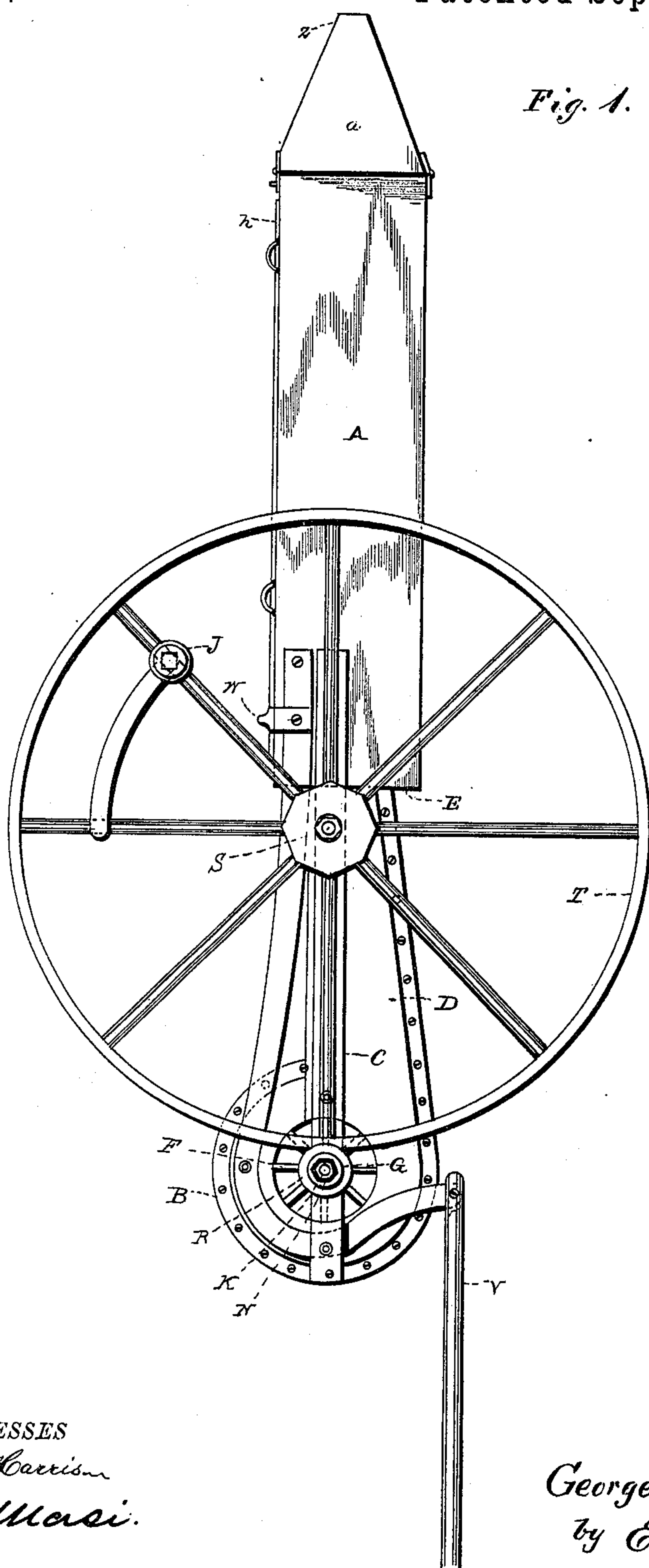
(No Model.)

2 Sheets—Sheet 1.

G. S. BOIN.
FUMIGATOR.

No. 370,233.

Patented Sept. 20, 1887.



WITNESSES
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(No Model.)

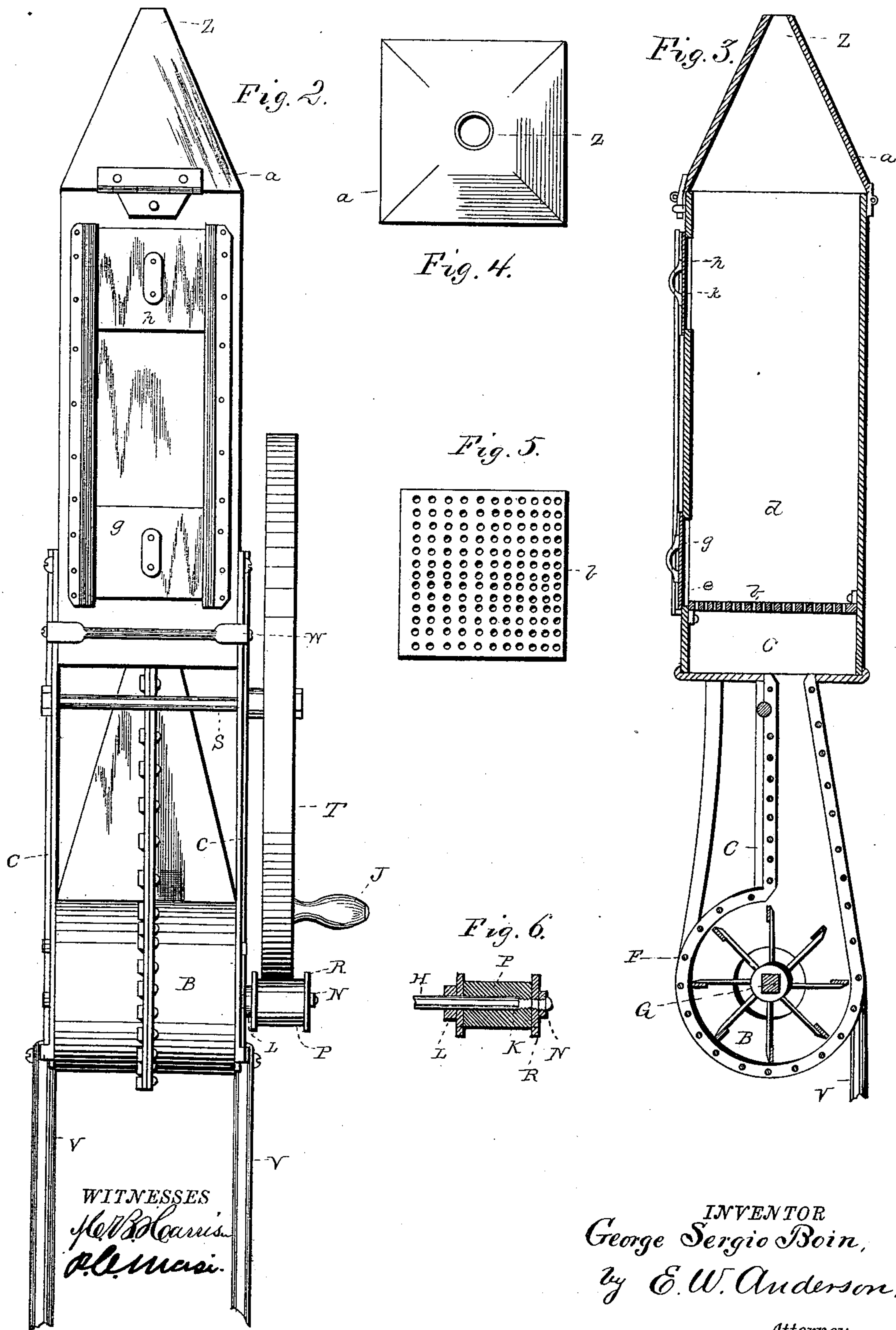
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UNITED STATES PATENT OFFICE.

GEORGE SERGIO BOIN, OF SALINAS, CALIFORNIA.

FUMIGATOR.

SPECIFICATION forming part of Letters Patent No. 370,233, dated September 20, 1887.,

Application filed May 28, 1887. Serial No. 239,667. (No model.)

To all whom it may concern:

Be it known that I, GEORGE SERGIO BOIN, a citizen of the United States, residing at Salinas, in the county of Monterey and State of California, have invented certain new and useful Improvements in Smoking-Machines; and I do 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a side elevation of my improved smoking-machine. Fig. 2 is top view of same. Fig. 3 is a vertical transverse section. Fig. 4 is an end view of top *a* and nozzle *Z*. Fig. 5 is a detail view of equalizer-plate *b*. Fig. 6 is a longitudinal section of roller *P*.

This invention has relation to means for exterminating squirrels, vermin, &c., by smoke; and it consists in the construction and novel combination of parts constituting the smoking device, as hereinafter set forth.

In the accompanying drawings, the letter *A* designates a sheet-metal box extending upward and provided with a fan-case or blower, *B*, which is firmly connected to the fuel-box *A* by the braces *C C*, which are attached to the sides of the fuel-box and of the fan-case. The chute *D* of the fan-case tapers toward the center of the base *E* of the box *A*.

F is the wind-wheel having the shaft *G*, which is provided with a shaft, *H*, journaled in the opposite braces, and having an extension, *K*, projecting laterally. This extension is provided with an inner stop or plate, *L*, and is threaded at its end to engage the nut *N*. Before the nut *N* is applied a rubber roller or friction-wheel, *P*, is placed on the extension, and next to it a pressure-plate, *R*, after which the nut is applied. By turning up the nut the rubber friction-wheel may be pressed to increase its diameter in case of wear.

T is the large drive-wheel, which is secured to the shaft *S*, which is journaled in braces below the box *A*. This wheel is provided with a suitable handle, *J*, and is designed to engage the rubber wheel *P*. When it is turned, the wind-wheel will be operated, sending a blast into the box *A*.

V V are standards, which are pivoted to the frame-work, preferably to the curved ends of braces, as shown, and are designed to form supports on which the machine is rested when being worked. As these standards are independently pivoted, they permit the box to be turned in different directions as the smoke formed by an inflamed composition within said box issues from the nozzle *Z* at its upper end. This nozzle is usually formed at the upper end of a hinged top, *a*, which can be opened when necessary in turning out the ashes and débris in cleaning the machine.

A draft-plate, *b*, is placed in the lower part of the box *A*. This plate is perforated throughout, and is applied transversely in the box above the base in such manner as to provide below it an air-chamber, *c*. Above it is the fire-box and fuel-chamber *d*. At the level of the equalizer-plate is the lower margin of the lower opening, *e*, which is provided with a door, *g*, and is designed to facilitate starting the fire. Near the upper end of the box is provided a second opening, *h*, also having a door, *k*, and designed to enable the operator to introduce the fuel when needed.

W is a handle applied at or about the middle of the machine, and adapted to facilitate carrying the same as the operator moves about from place to place.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

1. The smoking-machine consisting of the upright fuel-box having hinged nozzle-top, perforated draft-plate, and blower attached thereto by braces, and having its tapering chute entering the center of the base to communicate with the air-chamber below the equalizer-plate, substantially as specified.

2. The smoking-machine consisting of the upright fuel-box having upper and lower openings, with doors, the hinged nozzle-top, the inside perforated draft-plate, the blower attachment and its braces, and the pivoted standards, substantially as specified.

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

GEORGE SERGIO BOIN.

Witnesses:

GEO. S. MILLER,
M. D. BOIN.