

(No Model.)

G. SHANKLIN.
ASH SIFTER.

No. 541,638.

Patented June 25, 1895.

Fig. 1.

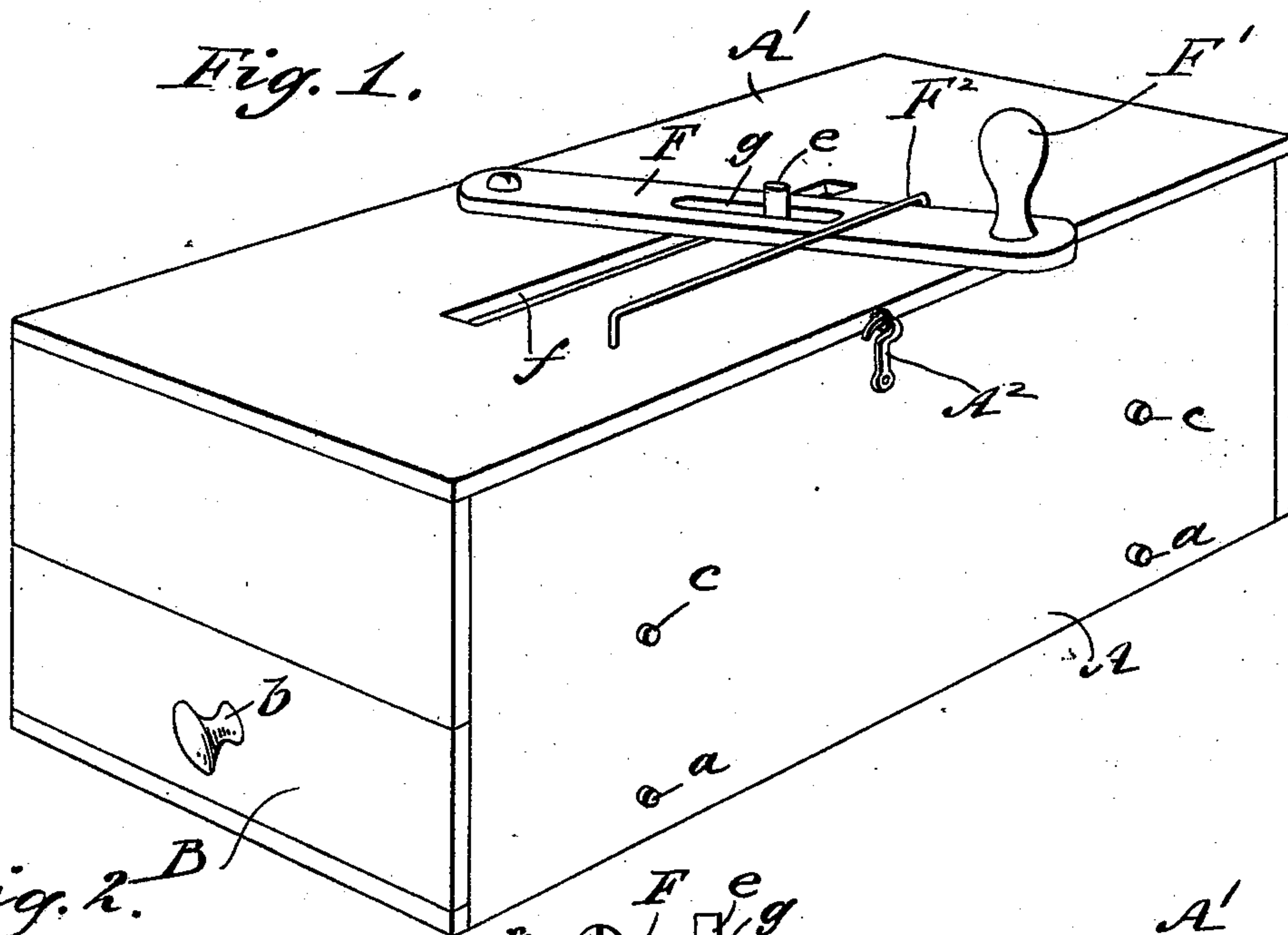


Fig. 2.

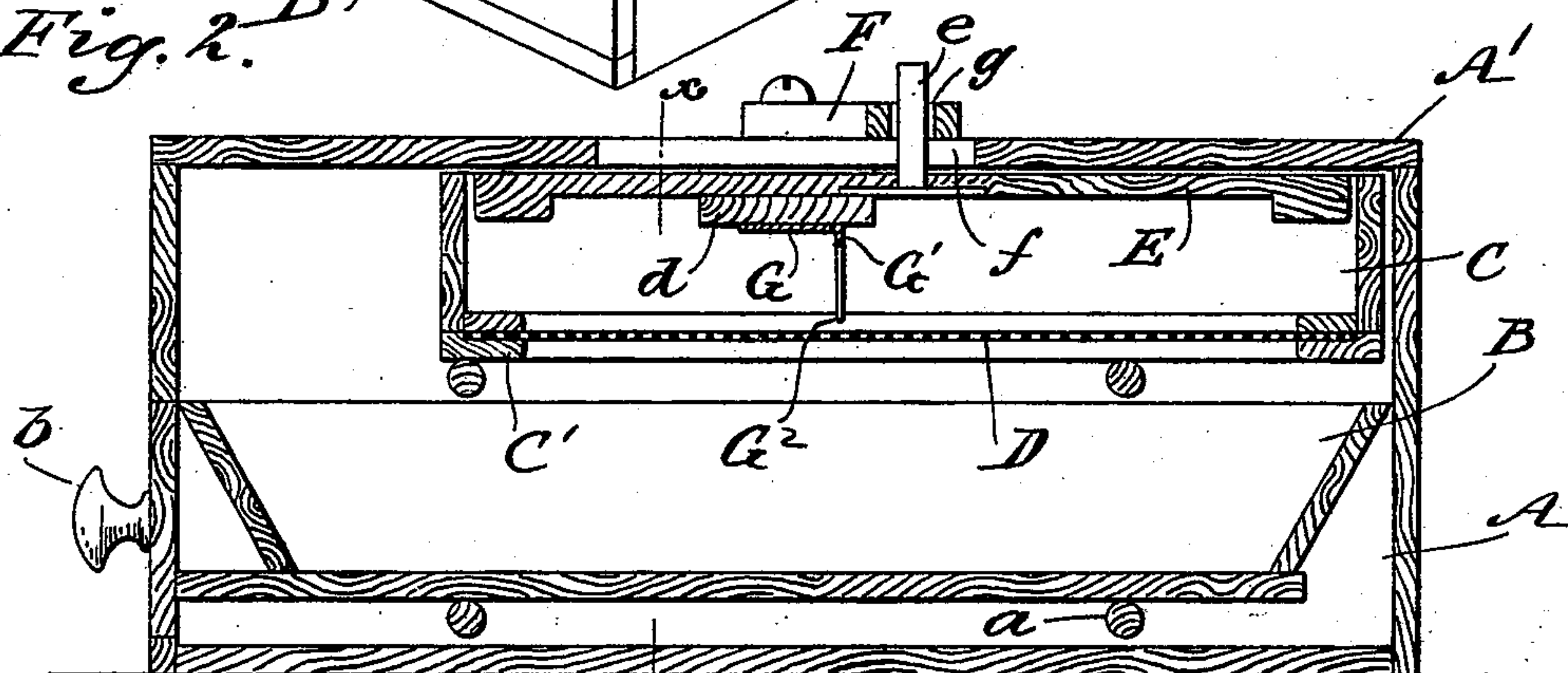
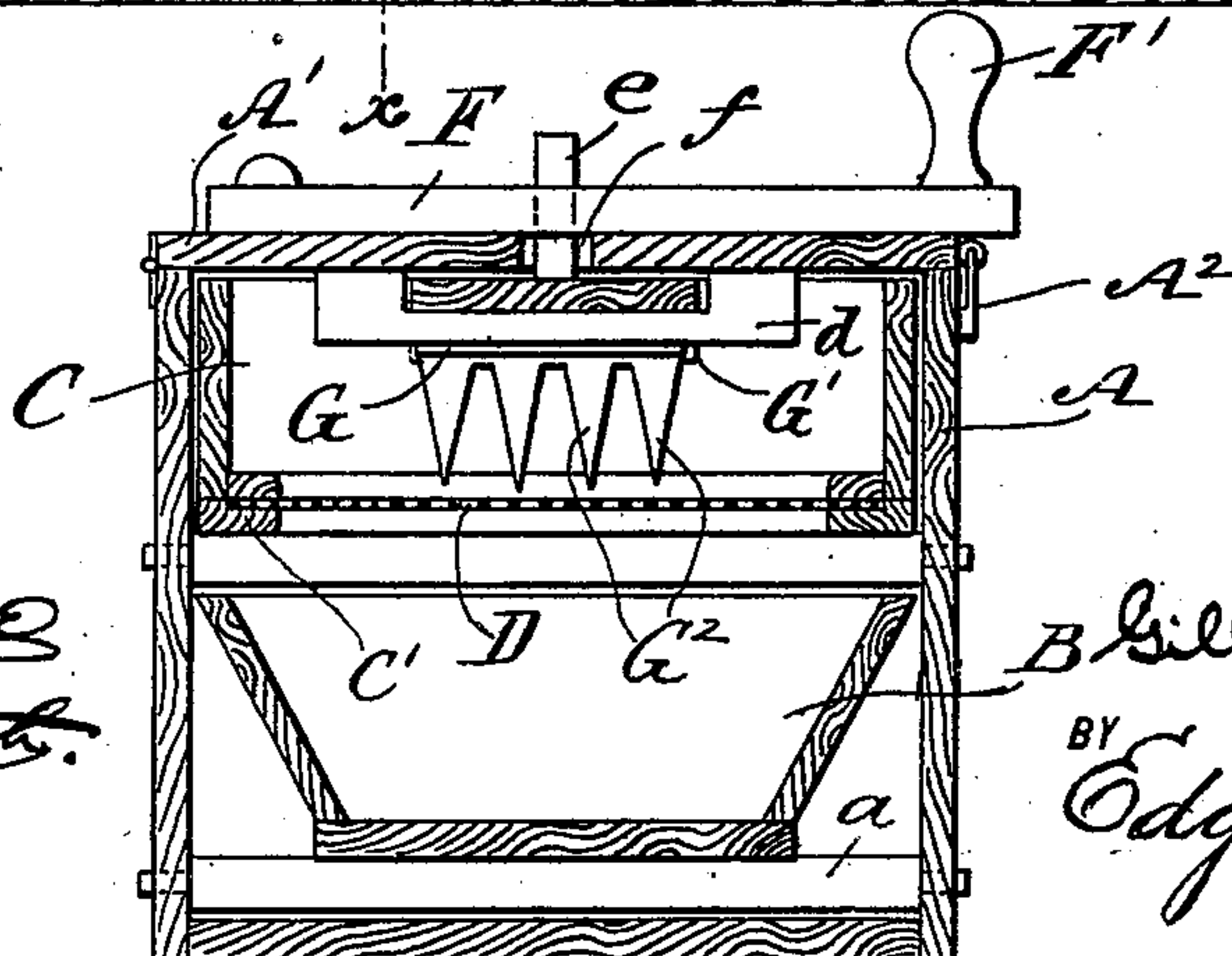


Fig. 3.



WITNESSES:

John K. Dummer
Paul D. Hiffert

INVENTOR

B. Gilbert Shanklin
BY *Edgar Taterbo*
ATTORNEYS

UNITED STATES PATENT OFFICE.

GILBERT SHANKLIN, OF NEW YORK, N. Y.

ASH-SIFTER.

SPECIFICATION forming part of Letters Patent No. 541,638, dated June 25, 1895.

Application filed November 16, 1894. Serial No. 528,971. (No model.)

To all whom it may concern:

Be it known that I, GILBERT SHANKLIN, a citizen of the United States, and a resident of New York, county of New York, and State of New York, have invented certain new and useful Improvements in Ash-Sifters, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar letters of reference indicate corresponding parts in all the figures.

This invention relates to ash-sifters and has for its object to provide a simple, cheap, readily constructed, and perfectly operating device of this character by means of which the coals may be quickly separated from the ashes by the reciprocation of a lever, and the said coals remain in the shaking chamber while the ashes fall to the bottom of the sifter.

The invention consists in the novel construction and arrangement of parts herein-after more fully described.

In the accompanying drawings, Figure 1 is a perspective view of an ash-sifter embodying my invention. Fig. 2 is a longitudinal vertical section through the exact center of the same. Fig. 3 is a transverse section taken upon the line $x x$, Fig. 2.

In the practice of my invention, I construct an oblong box A, having secured across the same slightly above the bottom thereof rollers a , on which rests a trough shaped drawer B, closely fitting in one end of the box, and provided with a knob b . Immediately above this drawer B are mounted rollers c , on which is placed a receptacle or chamber C, of just sufficient width to slide freely, in the box A, and of considerably less length than the same. This chamber C is open at the bottom throughout, and provided with an interior peripheral flange C' , in which is inserted and secured a sheet of netting or other perforated material D.

Upon the under surface of the cover A' of the box, which is hinged thereto at the rear and fastened by a catch A^2 , is secured at the center a cross-piece or bearing d longitudinally grooved at the top, between which and the lid slides a strip E, of approximately equal length with the chamber C and fitting therein. Projecting upwardly from the center of

the strip E is a spindle e , working in a longitudinal slot f formed in the lid A' . At the rear of said lid is pivoted a lever F, having a handle F' thereon at the front and resting beneath a wire guide F^2 on the lid, which limits the motion of said lever. The spindle e extends through the slot f above the level of the lid, and through a longitudinal slot g in the lever F.

The cross-piece or bearing d has secured to the under surface thereof a plate G, from one end of which depends a transversely ranging flange G' divided to form a series of teeth G^2 .

The operation of the device will be readily understood from the foregoing description taken in connection with the accompanying drawings.

The combined ashes and coals are inserted into the chamber C and the lid closed and fastened. The lever F is then reciprocated by means of the handle F' , thereby similarly actuating the strip E and the chamber C. This action shakes the ashes through the netting or perforated bottom D, and the teeth G^2 being stationarily secured with reference to the cover, serve as a rake or agitator to sift the mass as the chamber is slid back and forth beneath it, this being facilitated by the rollers c , which cause the movement of said chamber to be exceedingly free and easy, and of which more than the number shown may be employed, where desired. When the operation is completed, the ashes will be within the drawer B, whence they may be removed from time to time by sliding said drawer out on the rollers a , and the coals will remain in the chamber C, which may be removed from the box on lifting the lid A' .

The advantages resultant from the use of my invention will be manifest to all who are conversant with the general class of devices to which the same appertains. I do not confine myself to the exact formation of parts herein set forth and illustrated.

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

1. An ash sifter comprising a box having a drawer at the bottom, a sifting chamber sliding above said drawer and having a perforated bottom, a bearing secured to the lid of the box, a strip slidably mounted therein and

engaging the chamber, a lever pivoted upon the lid of the box and connecting to the strip to reciprocate the chamber, and a series of teeth projecting downwardly from the bearing of said strip to engage the coals and sift the ashes therefrom, substantially as shown and described.

2. An ash sifter comprising a box having rollers in the bottom thereof, a trough-shaped drawer resting thereon, transverse rollers journaled immediately above said drawer, a sifting chamber mounted on said rollers, said chamber being of considerably less length than the box and open throughout at the bottom, an interior peripheral flange in said bottom having a sheet of netting secured therein, a lid hinged to the rear of the box, a transverse bearing or cross-piece secured centrally to the under surface of said lid, a strip slid-

ing between the same and the lid and engaging the ends of the chamber, a lever resting on said lid pivoted at the rear and having a handle thereon at the front a guide-bar on said lid above the lever to limit the movement thereof, a spindle projecting from the strip through longitudinal slots in the lid and lever, and a plate secured to the cross-piece having a transverse series of teeth depending therefrom, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 13th day of November, 1894.

GILBERT SHANKLIN.

Witnesses:

PERCY I. GRIFFITH,
L. MULLER.