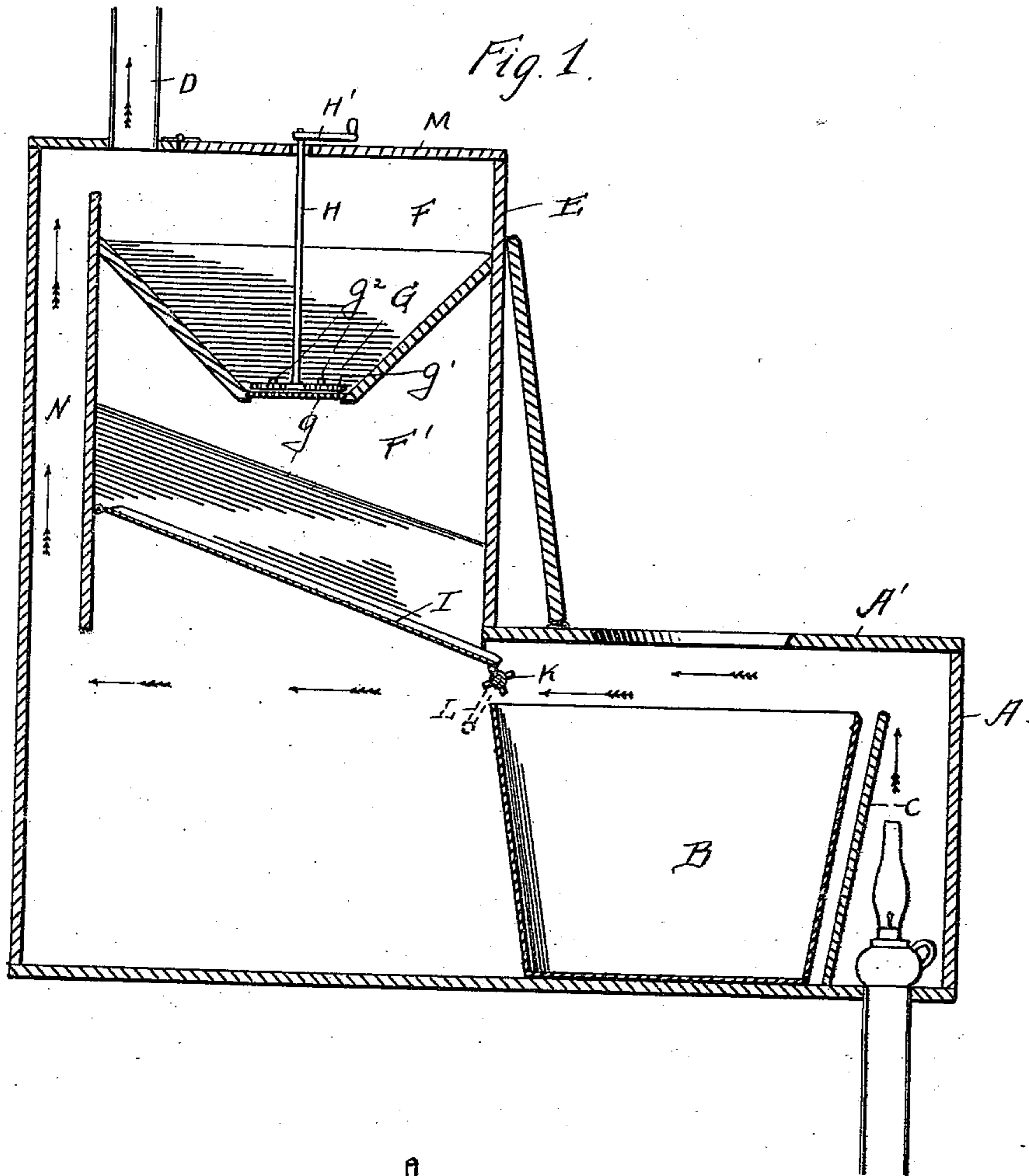


(No Model.)

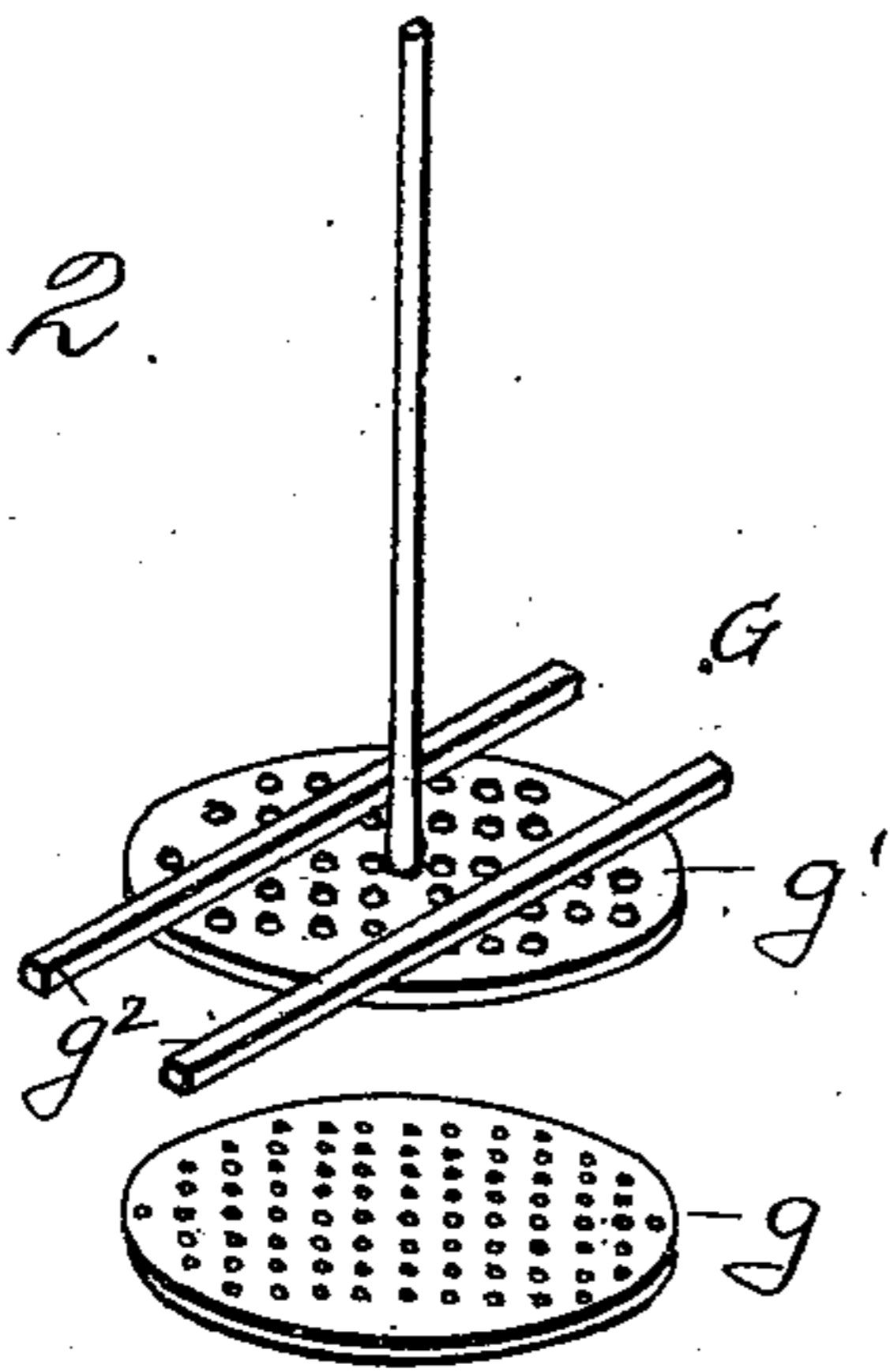
H. A. HECOX.  
DRY CLOSET.

No. 546,531.

Patented Sept. 17, 1895.



*Fig. 2.*



WITNESSES

Geo. M. Anderson  
Philip C. Masi.

INVENTOR

H. A. Hecox -  
by Geo. M. Anderson  
his Attorney

# UNITED STATES PATENT OFFICE.

HAMDEN A. HECOX, OF CENTREVILLE, MICHIGAN.

## DRY CLOSET.

SPECIFICATION forming part of Letters Patent No. 546,531, dated September 17, 1895.

Application filed May 25, 1895. Serial No. 550,695. (No model.)

*To all whom it may concern:*

Be it known that I, HAMDEN A. HECOX, a citizen of the United States, and a resident of Centreville, in the county of St. Joseph and State of Michigan, have invented certain new and useful Improvements in Dry Closets; 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 of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of a central vertical section through invention. Fig. 2 is a perspective view of pulverizing device.

This invention has relation to dry closets, and is in some respects an improvement upon the closet which I have described and claimed in my pending application, Serial No. 545,514, filed April 12, 1895.

The present invention relates more particularly to the dust-hopper and to the means employed for carrying the dust and the intermixed disinfecting or deodorizing material from such hopper to the receptacle of the closet.

Referring to the accompanying drawings, the letter A designates the box or casing of the closet which is designed to be supplied with a current of warm air, as described in the said application, which is furnished by a lamp placed within the box or by means of a pipe from a warm room, such current of air being caused to pass directly under the seat, above the receptacle B, by means of a vertical partition C, and from thence into a flue or pipe D, carrying with it the odors and gases of the closet.

E designates the dust-hopper, which consists of a box which is supported upon the casing A behind the seat A', said box having an upper chamber F and a lower chamber F'. The walls of said chambers are inclined inwardly or contracted into funnel shape, in order that the material placed therein will readily work itself to the bottom. At the central bottom portion of the upper chamber is placed a grinding or pulverizing device G, which consists of a lower stationary plate g

having fine perforations therein, an upper rotary plate or disk g' having larger perforations, and stationary cross-bars g<sup>2</sup>, which prevent the material to be ground or pulverized from being carried around by the said rotary disk. Said disk is rotated by means of a shaft H and crank H'.

The bottom of the lower chamber consists of an inclined plate I, which is hinged or pivoted at its upper rear end, and which is arranged to deliver the material into the receptacle B. The lower portion of this plate is supported by a transverse fluted or flanged roller or shaft K, which is operated by a crank L.

M is the hinged cover for the hopper, and N is a vertical flue in its rear portion through which the foul air passes from the box A to the flue or pipe D.

The dust or like material is first placed in the upper chamber of the hopper together with a suitable disinfectant or antiseptic, and in passing through the pulverizing device described the two are thoroughly incorporated with each other and reduced to the proper degree of fineness. The material then falls upon the plate I and is delivered to the receptacle B, as may be required, by the operation of the crank L.

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

1. In a dry closet, the combination with a box or casing having a seat and adapted to contain a receptacle, of a hopper supported thereon, said hopper having an upper and a lower chamber or compartment, the walls of which are inclined inwardly, or contracted, a grinding or pulverizing device in the bottom of the upper chamber or compartment, a pivoted, inclined plate forming the bottom of the lower chamber or compartment, said plate being arranged to deliver the material from the hopper into the receptacle, and means for agitating said plate, substantially as specified.

2. In a dry closet, the combination with the box or casing having a seat and adapted to contain a receptacle, and means for supplying a current of warm air through said box or casing, of a hopper having upper and lower compartments, a grinding and pulverizing de-

vice in the bottom of the upper compartment,  
an inclined discharging plate forming the  
bottom of the lower compartment, and a ver-  
tical flue to the rear of said compartments  
5 through which the foul air passes in escaping  
from said box or chamber, substantially as  
specified.

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

HAMDEN A. HECOX.

Witnesses:

I. SCHAFER,  
ALONZO PALMER.