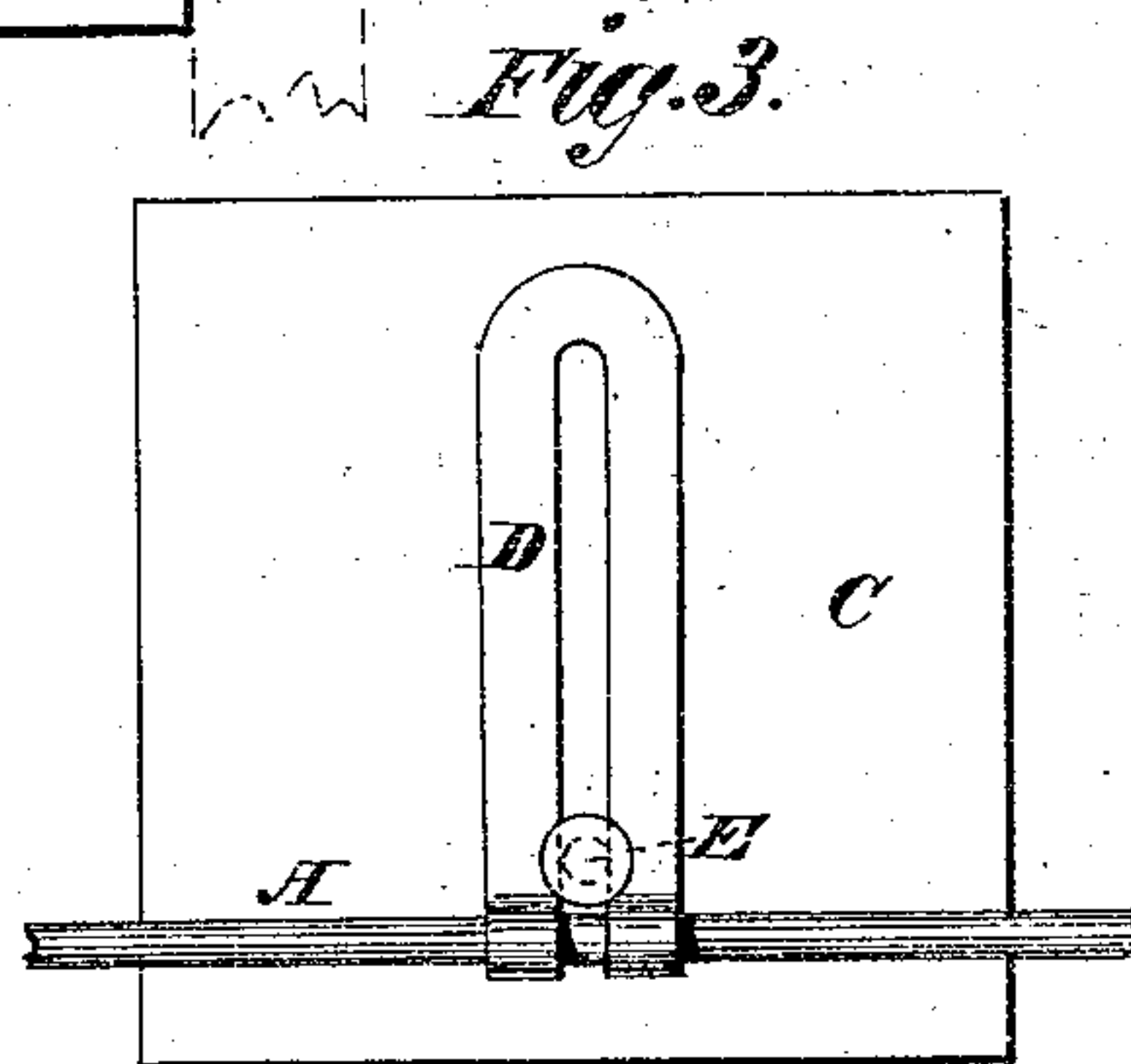
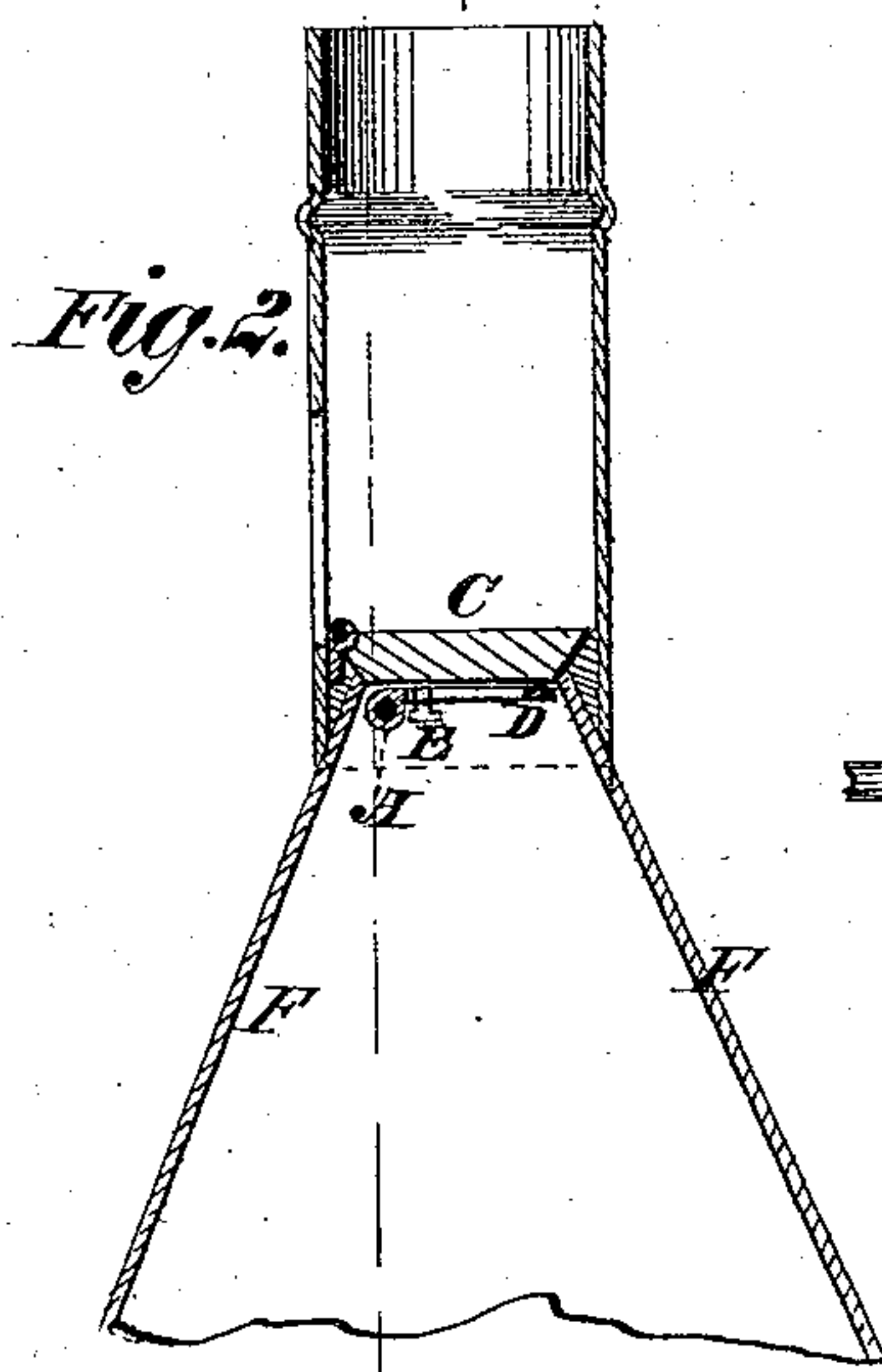
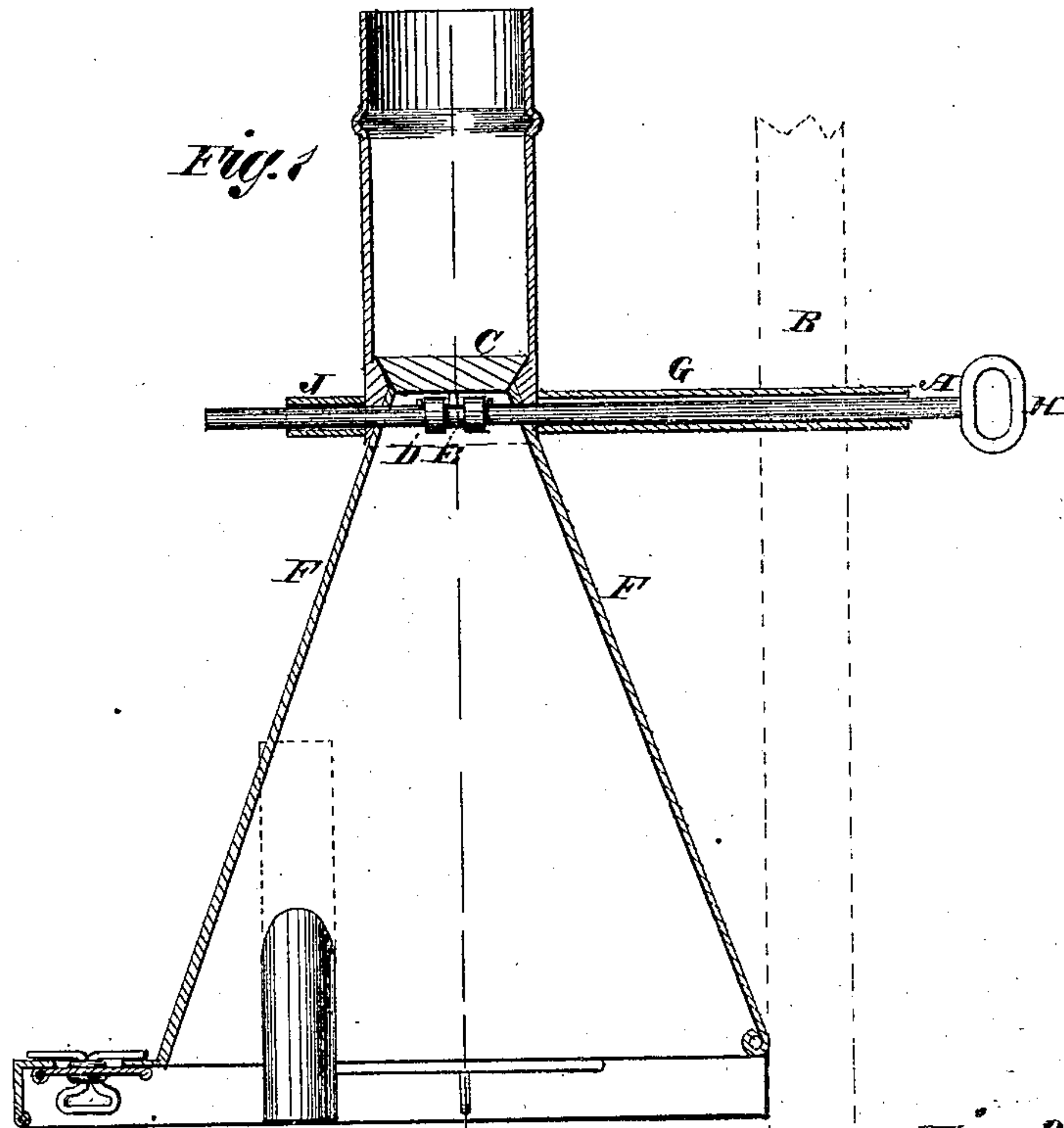


H. C. GARWOOD.
Range Chimney Bottom-Plates.

No. 153,560.

Patented July 28, 1874.



WITNESSES:

Francis M. Arde,
Sedgwick

INVENTOR:

H. C. Garwood,
BY Munnell

ATTORNEYS.

UNITED STATES PATENT OFFICE

HAMILTON C. GARWOOD, OF JERSEY CITY, NEW JERSEY.

IMPROVEMENT IN RANGE-CHIMNEY BOTTOM PLATES.

Specification forming part of Letters Patent No. **153,560**, dated July 28, 1874; application filed May 29, 1874.

To all whom it may concern:

Be it known that I, HAMILTON C. GARWOOD, of Jersey City, in the county of Hudson and State of New Jersey, have invented a new and Improved Range-Chimney Bottom Plate, of which the following is a specification:

Figures 1 and 2 are transverse sections of a range-chimney bottom plate, showing the application of my present invention; and Fig. 3 is a detail in side elevation.

Similar letters of reference indicate corresponding parts.

I now propose to employ a rod, A, extending directly through the front wall, B, of the chimney, for working the valve C at the opening of the top of the chimney bottom plate F, for effecting the ventilation, the said rod being connected to the valve by a slotted arm, D, and a stud-pin, E, as shown. I will also have a tubular guard, G, extending through the chimney-wall to the chimney-plate for the rod to turn in properly, so as not to rest in the hole in the wall. This guard may or may not be attached to the bottom plate; but, if attached, it may be screwed into it when inserted

in the hole through the wall, or inserted into or slipped over a short tube on the plate. The rod will extend sufficiently beyond the front of the chimney-wall to afford a practicable handle, H, for use in turning it, and it may extend through the plate F to the rear wall of the chimney for a bearing, or the bearing may be attached to plate F, as at J. The handle may be of any approved form. This rod may be used alone, or together with a rod extending up to the valve from the bottom of the plate inside, if preferred, but probably it will not be necessary to use both.

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

In a range chimney bottom plate, the combination of the hinged rod C, turn-rod A, extending through the front of the chimney, slotted arm D, and stud-pin E, as herein shown and described.

HAMILTON C. GARWOOD.

Witnesses:

T. B. MOSHER,

ALEX. F. ROBERTS.