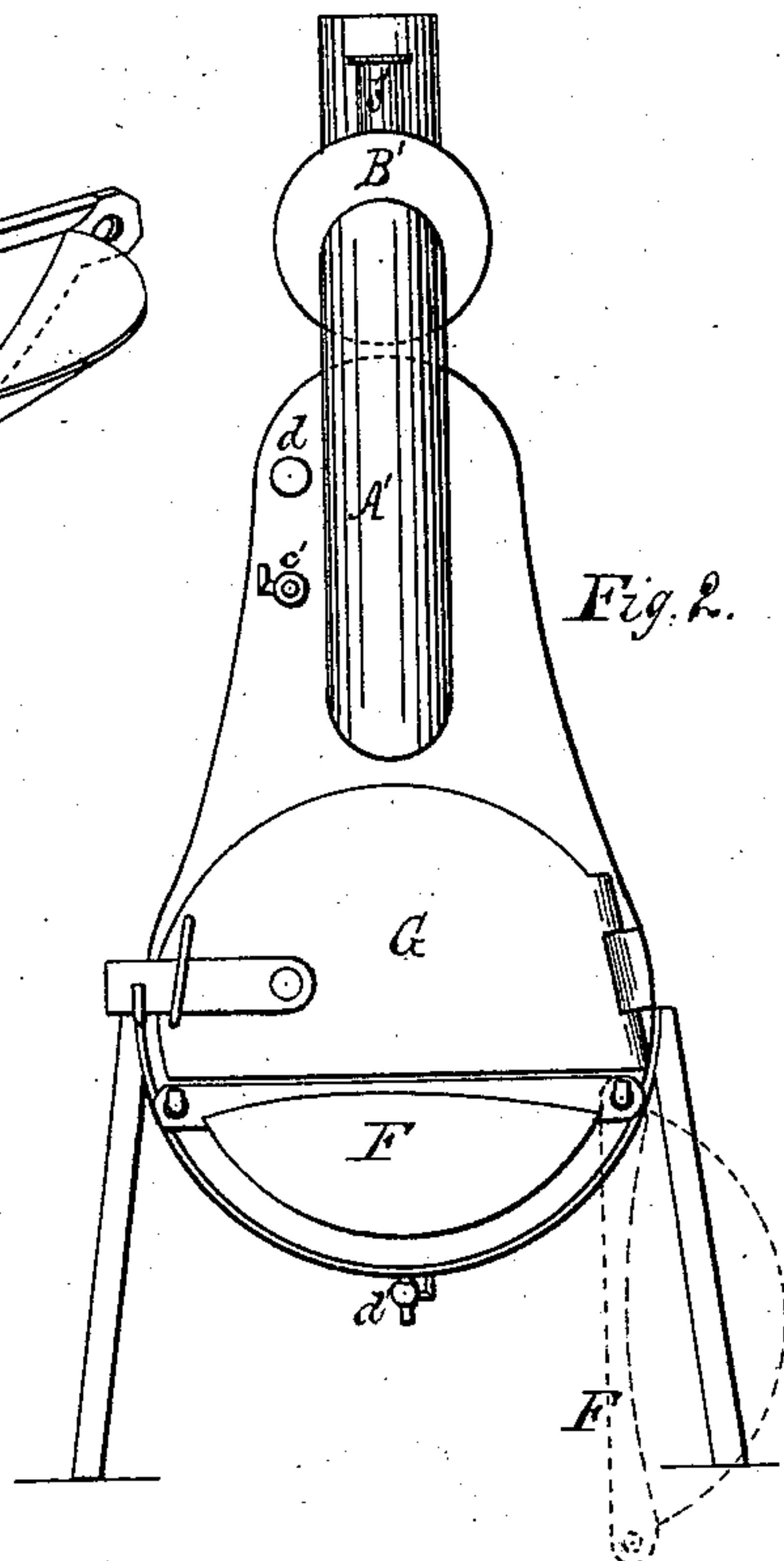
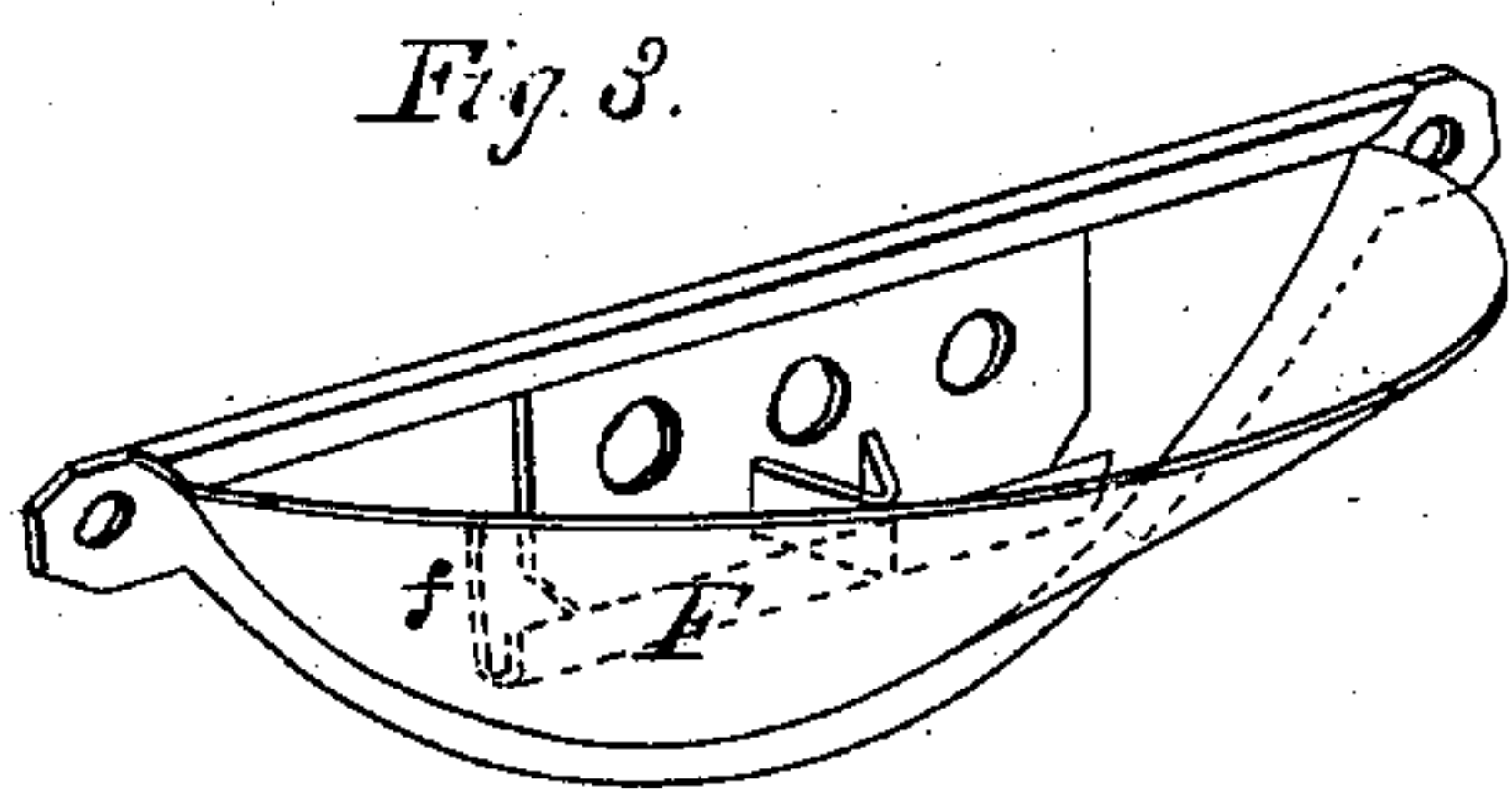
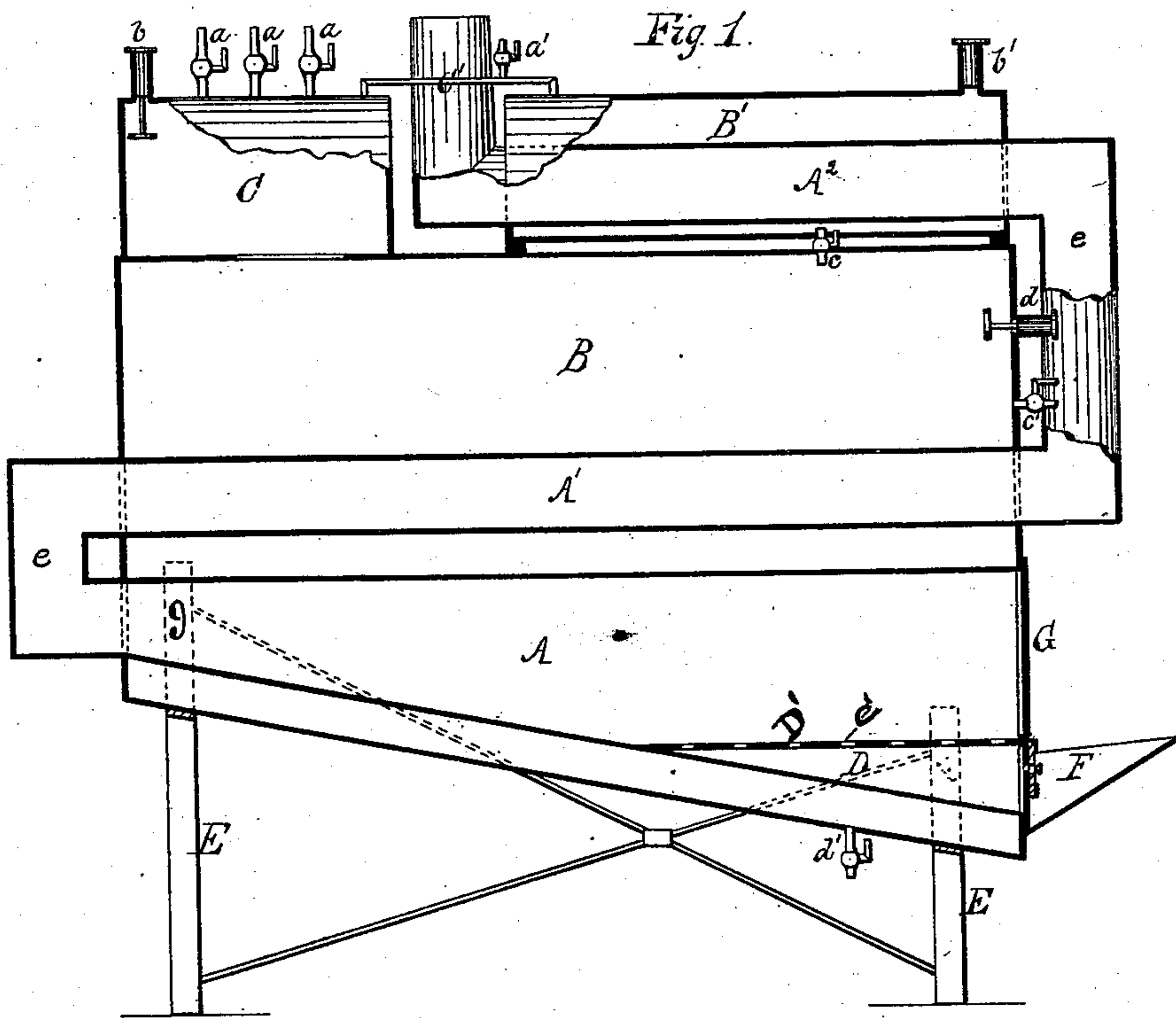


(Model.)

J. E. SMITH.

Steam Generator for Cooking and Laundry Purposes.  
No. 235,969.

Patented Dec. 28, 1880.



WITNESSES  
*W. Campbell*  
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# UNITED STATES PATENT OFFICE.

JOHN E. SMITH, OF AFTON, IOWA.

## STEAM-GENERATOR FOR COOKING AND LAUNDRY PURPOSES.

SPECIFICATION forming part of Letters Patent No. 235,969, dated December 28, 1880.

Application filed October 11, 1880. (Model.)

*To all whom it may concern :*

Be it known that I, JOHN E. SMITH, a citizen of the United States, residing at Afton, in the county of Union and State of Iowa, have  
5 invented certain new and useful Improvements in Steam-Generators and Cooking Apparatus for Stock, Laundry, and other Purposes; and I do hereby declare the following to be a full,  
10 clear, and exact description of the invention, such as will enable others skilled in the art to 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  
15 this specification.

My invention relates to certain new and useful improvements in steam-generators and cooking apparatus for stock, laundry, and other purposes, as will be hereinafter more fully explained, and specifically pointed out in the claim.

The invention consists in the peculiar construction of the boiler and the several parts, which will be more fully hereinafter set forth.

25 Referring to the drawings, Figure 1 represents a central section; Fig. 2, a front view of the apparatus. Fig. 3 represents a perspective view of the perforated front plate and the scoop-shaped projection attached.

30 A represents the fire-box, constructed in the form of a cone, and inclining toward the front end thereof, for the purpose of having the rear end of said box on a level with the front of the boiler B, which is made smaller at the top  
35 and rear end, so as to secure the greatest amount of heating-surface to the smallest amount of water, thereby generating the greatest amount of steam with the smallest amount of fuel. The top portion of the boiler  
40 B inclines from the bottom, so as to correspond with the raised or taper portion of the cone of the fire-box A, for the purpose of giving an equal amount of heating-surface.

45 B' is a reservoir or tank for holding the heated water previous to supplying the boiler B, and at each end thereof, at top, are two safety-valves, *b b'*.

C designates a steam reservoir or tank, on which, near the rear end, and also on pipe C', are feeding-outlets *a a a'*, for the purpose of  
50 having connected to them flexible pipes or the like, for conveying the steam to receptacles placed at suitable distances, in which the steam is to be utilized.

*b b'* are safety-valves, *b'* being removable  
55 at will, when necessary, to insert an ordinary funnel, through which the water is fed after the heated water has been let into the boiler B.

*e e* are two elbows connected to pipe A', for returning the heat from the fire-box into  
60 the boiler B and water-tank B', the said pipe forming one continuous pipe by means of said elbows.

*c' d* are water-gages, the gage *d* being for the purpose of indicating when the water has  
65 begun to rise in the boiler, and it also prevents the collapsing of the boiler in case there should be any appearance of cold water in said boiler.

*d'* is a faucet on the bottom of the boiler,  
70 which acts as a drain-cock to empty the boiler when necessary.

The pipe C' and cock *a'*, connecting the steam-reservoir C and the tank B', are for the purpose of equalizing the pressure between  
75 the boiler B and the tank B', and by opening the cock *c* between the tank B' and boiler B the water will then run down into the said boiler B.

What I claim as new is—

80 In a steam-generator, the tank B', provided with the inlet-pipe *b'*, in combination with the reservoir C, having gage *b* and faucets *a a a'*, pipe C', and faucet *a'*, all constructed and arranged to operate in the manner shown and  
85 described.

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

JOHN E. SMITH.

Witnesses:

JAS. W. SEELEY,  
JOSEPH L. MCKEE.