

(No Model.)

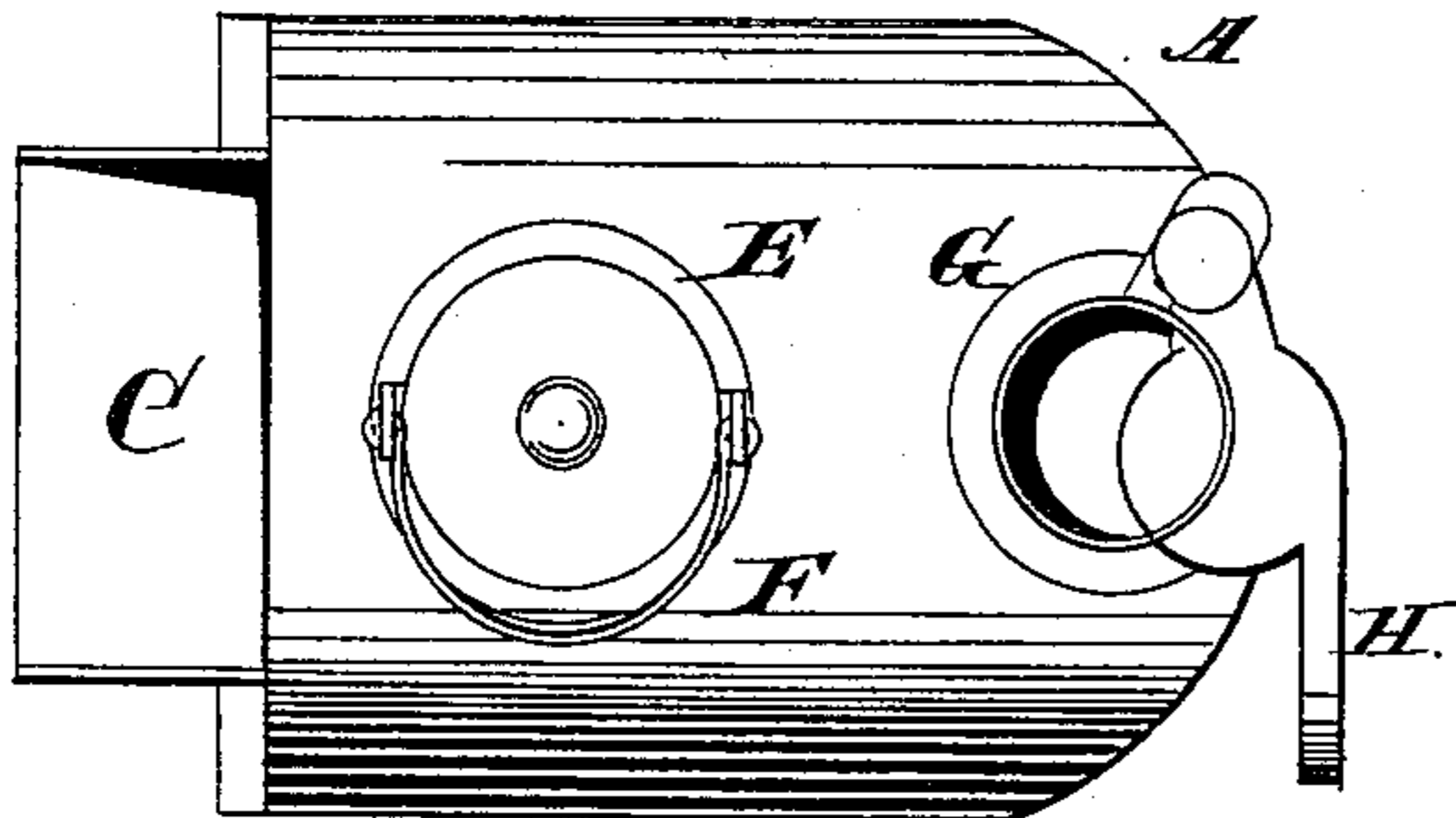
W. DUNLOP.

HEATER FOR SOLDERING IRONS.

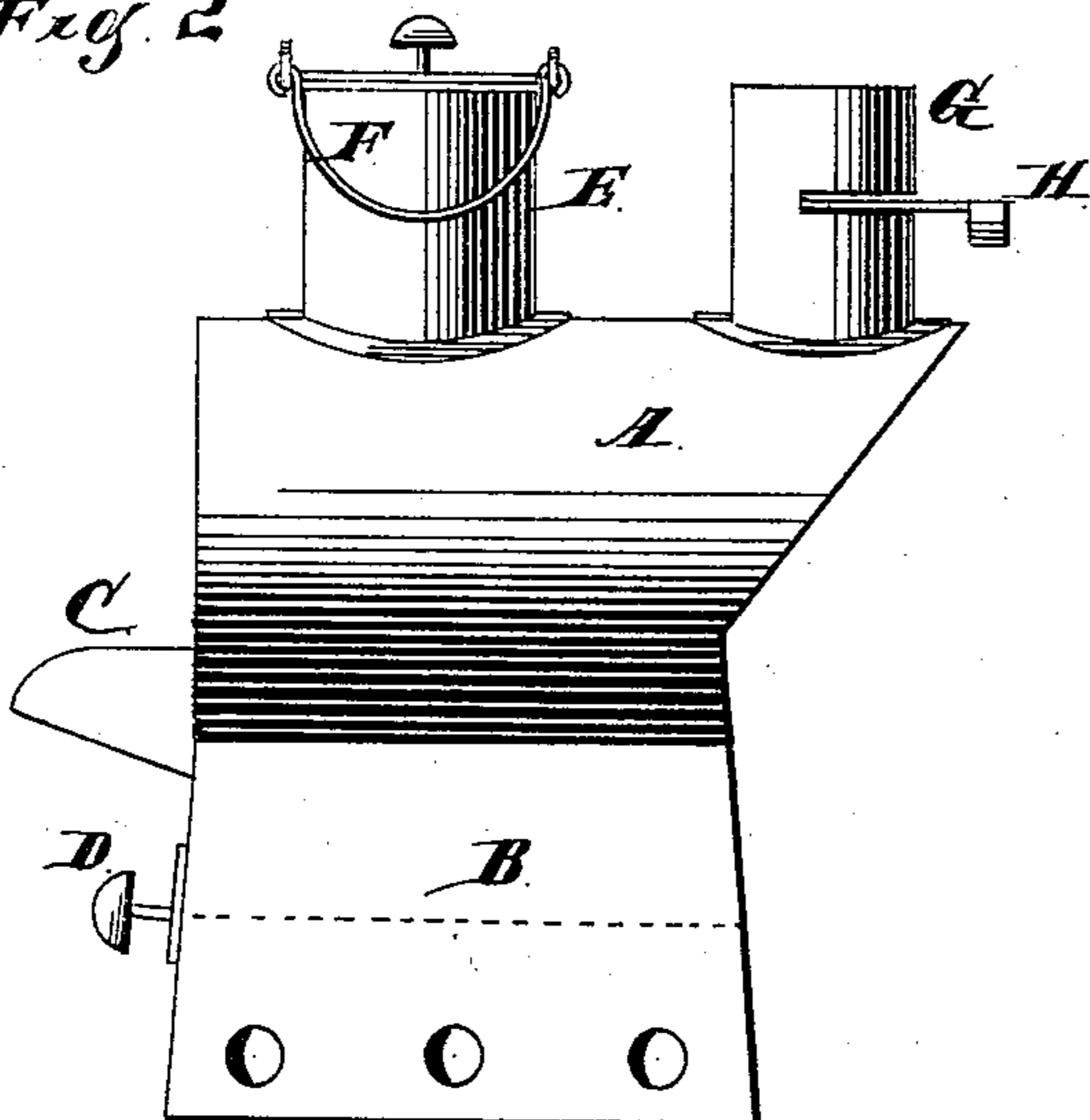
No. 300,768.

Patented June 24, 1884.

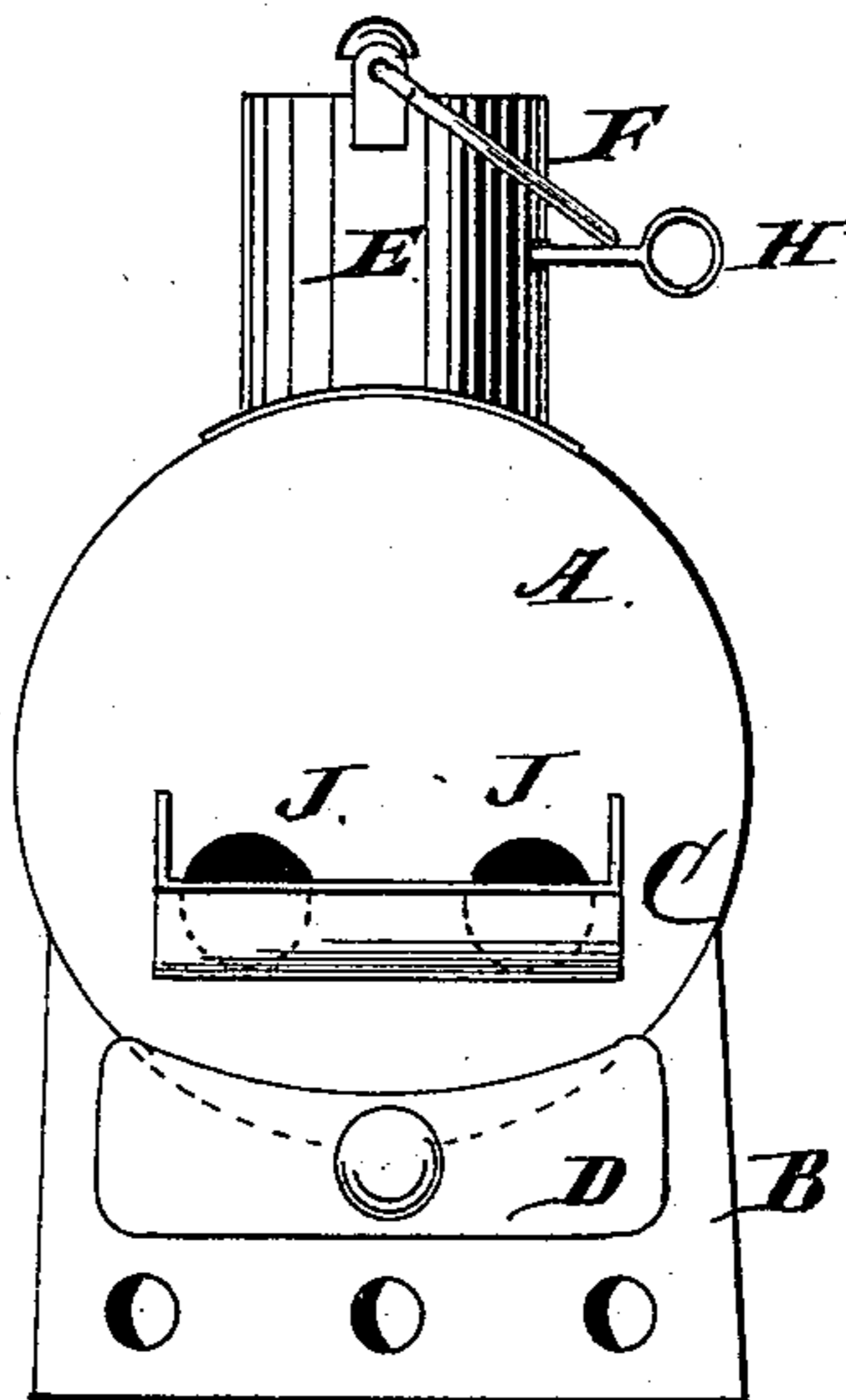
*Fig. 1.*



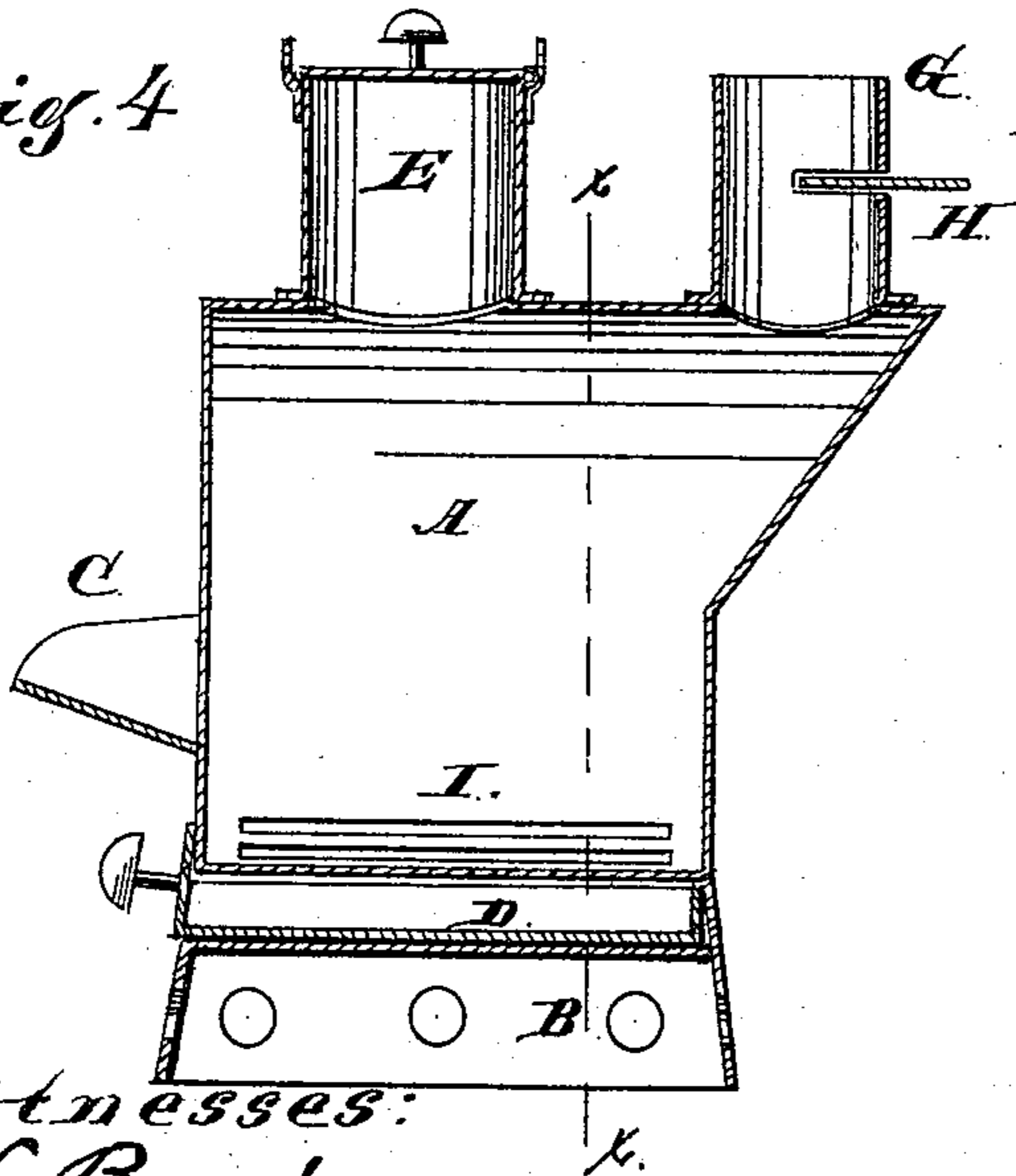
*Fig. 2.*



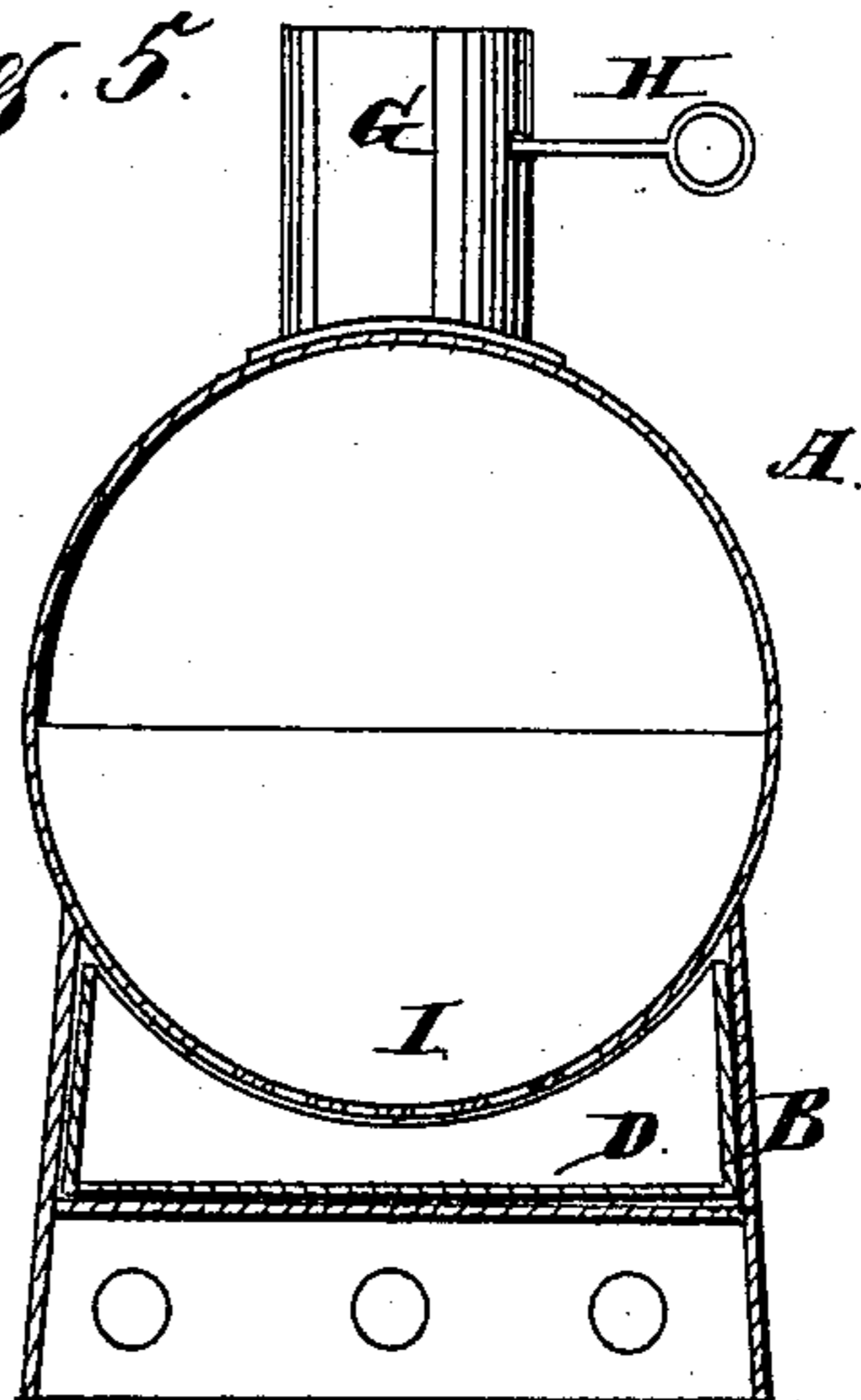
*Fig. 3.*



*Fig. 4.*



*Fig. 5.*



Witnesses:

L. L. Bond  
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Inventor:

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# UNITED STATES PATENT OFFICE.

WILLIAM DUNLOP, OF CHICAGO, ILLINOIS.

## HEATER FOR SOLDERING-IRONS.

SPECIFICATION forming part of Letters Patent No. 300,768, dated June 24, 1884.

Application filed July 26, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM DUNLOP, residing at Chicago, in the county of Cook and State of Illinois, and a citizen of the United States, have invented certain new and useful Improvements in Soldering Fire-Pots, of which the following is a full description, reference being had to the accompanying drawings, in which—

10 Figure 1 is a top or plan view; Fig. 2, a side elevation; Fig. 3, a front elevation; Fig. 4, a longitudinal vertical section, and Fig. 5 a cross-section on line *xx* of Fig. 4.

15 The object of this invention is to improve the construction and operation of heaters for soldering-irons for tinnerns and other uses; and its nature consists in locating a cylindrical pot horizontally to its base, so that the converging sides will keep the coal together and in position for use, and in the several parts and combinations of parts hereinafter set forth and claimed as new.

20 In the drawings, A indicates the cylindrical furnace; B, its base; C, apron or rest for supporting the soldering-irons; D, ash-chamber; E, feed tube or opening; F, carrying-bail; G, smoke or draft tube; H, damper; I, grate-bars, and J openings for inserting soldering-irons.

30 The cylindrical furnace and the base may be made entirely of sheet metal, the furnace being simply cut away at the bottom for the grate-bars I, forming, preferably, a semi-cylindrical grate. Although dimensions are not essential, I usually make two sizes, the smallest having the cylindrical furnace twelve inches in diameter and nine inches long at the base, the other with the cylinder thirteen inches in diameter and twelve inches long at the base.

40 Immediately beneath the grate-bars I the ash drawer or pit D is placed. This drawer may be made so as to partly perform the office of a damper, as, when made close-fitting and shut up, it will cut the draft off, and by pulling it out more or less atmosphere is admitted to the grate-bars. The draft, however, is usu-

ally regulated by the damper H in the tube or chimney connection G. The parts shown may be used without a chimney-connection and as a portable pot, and in either case the draft will usually be regulated by the damper H. 50

The tube or opening E is used for admitting coal. It is provided with a close-fitting cover, and with the bail F, by which it may be carried. 55

By making the furnace cylindrical and locating it horizontally, less coal is used for heating the irons, as all of the coal placed in the furnace is brought down to the place where the soldering-irons are to be heated, the cylindrical sides causing the coal to be brought to this point. For this reason the irons can be heated with a less quantity of coal than is used in any ordinary soldering fire-pot. It also makes a convenient form for feeding the coal, regulating the draft, and is compact and neat in its structure. 60 65

By forming the grate-bars integral with the casing itself, a much stronger and more durable and cheaper grate is produced than when otherwise made. 70

The complete device is much safer in use than the ordinary soldering fire-pot, as there is no opportunity for coals to get out or fall out while it is in use. 75

What I claim as new, and desire to secure by Letters Patent, is as follows:

In a soldering-iron heater, the cylinder A, having the semi-cylindrical grate formed integral therewith and provided with a feed-tube, E, and draft-tube G, having damper H, in combination with the base B, for holding the cylinder in a horizontal position, and provided with an ash-drawer, D, said cylinder having openings J J in its front end, and a rest, C, secured directly under the same, substantially as described. 80 85

WILLIAM DUNLOP.

Witnesses:

L. L. BOND,  
O. W. BOND.