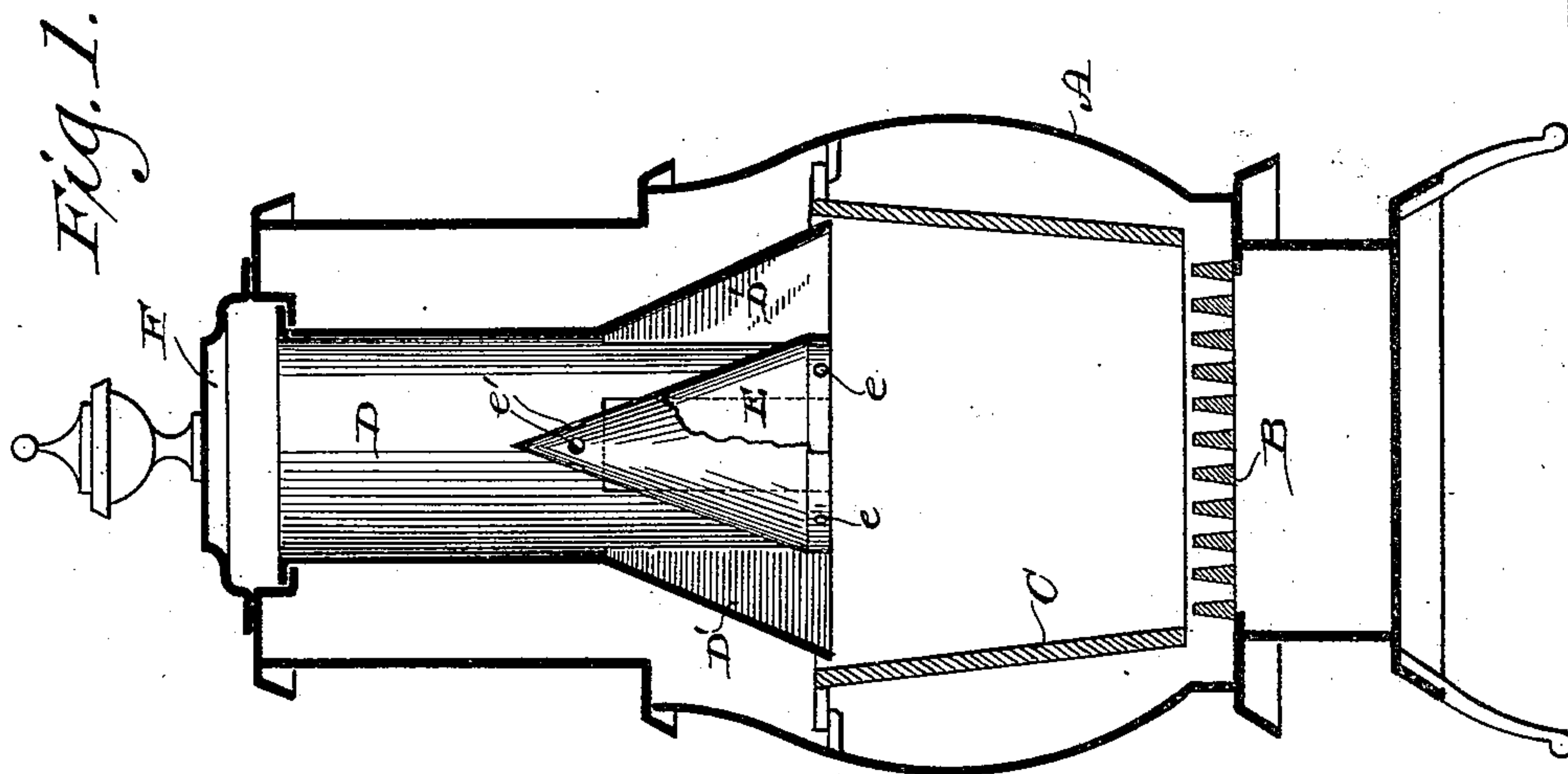
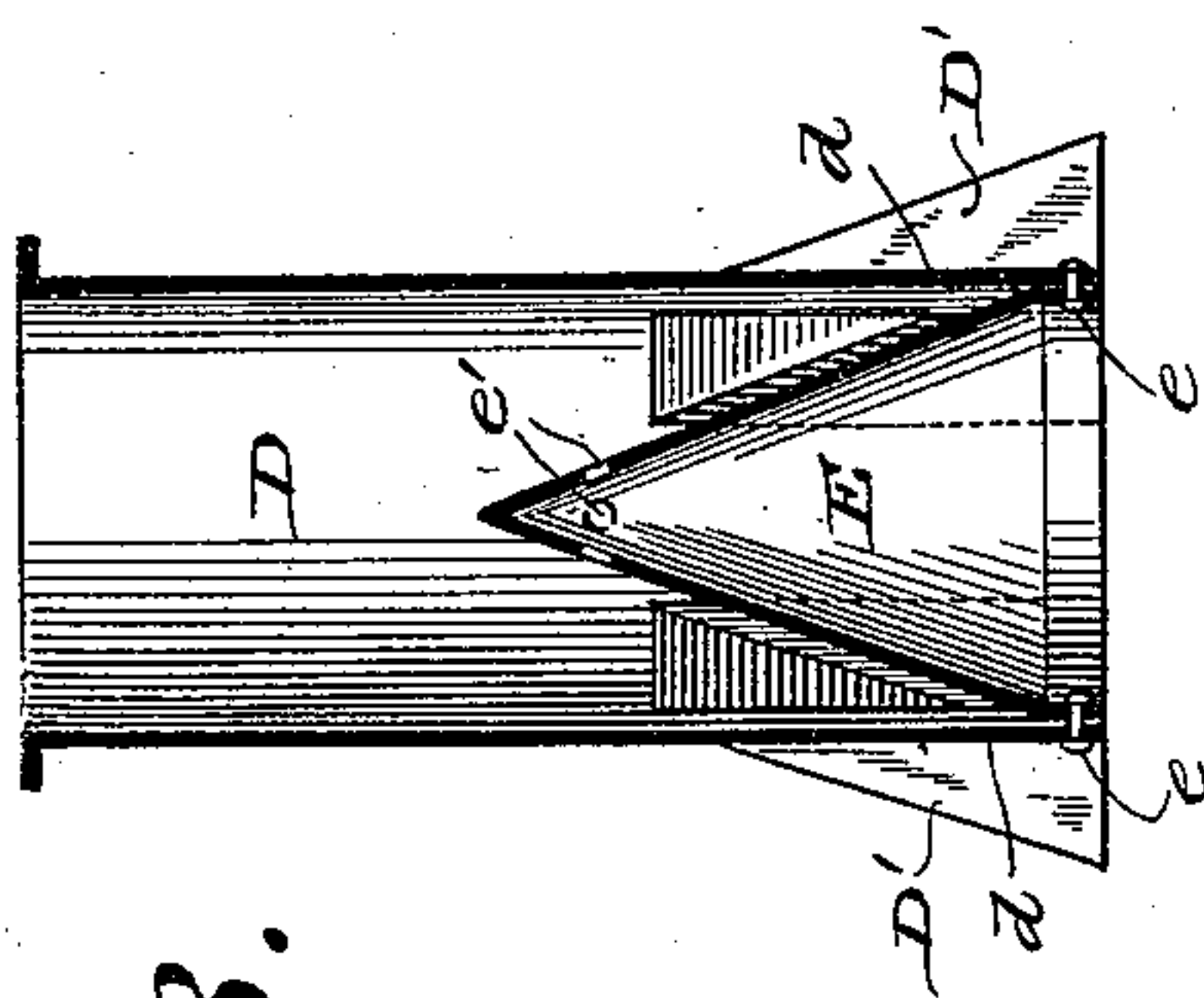
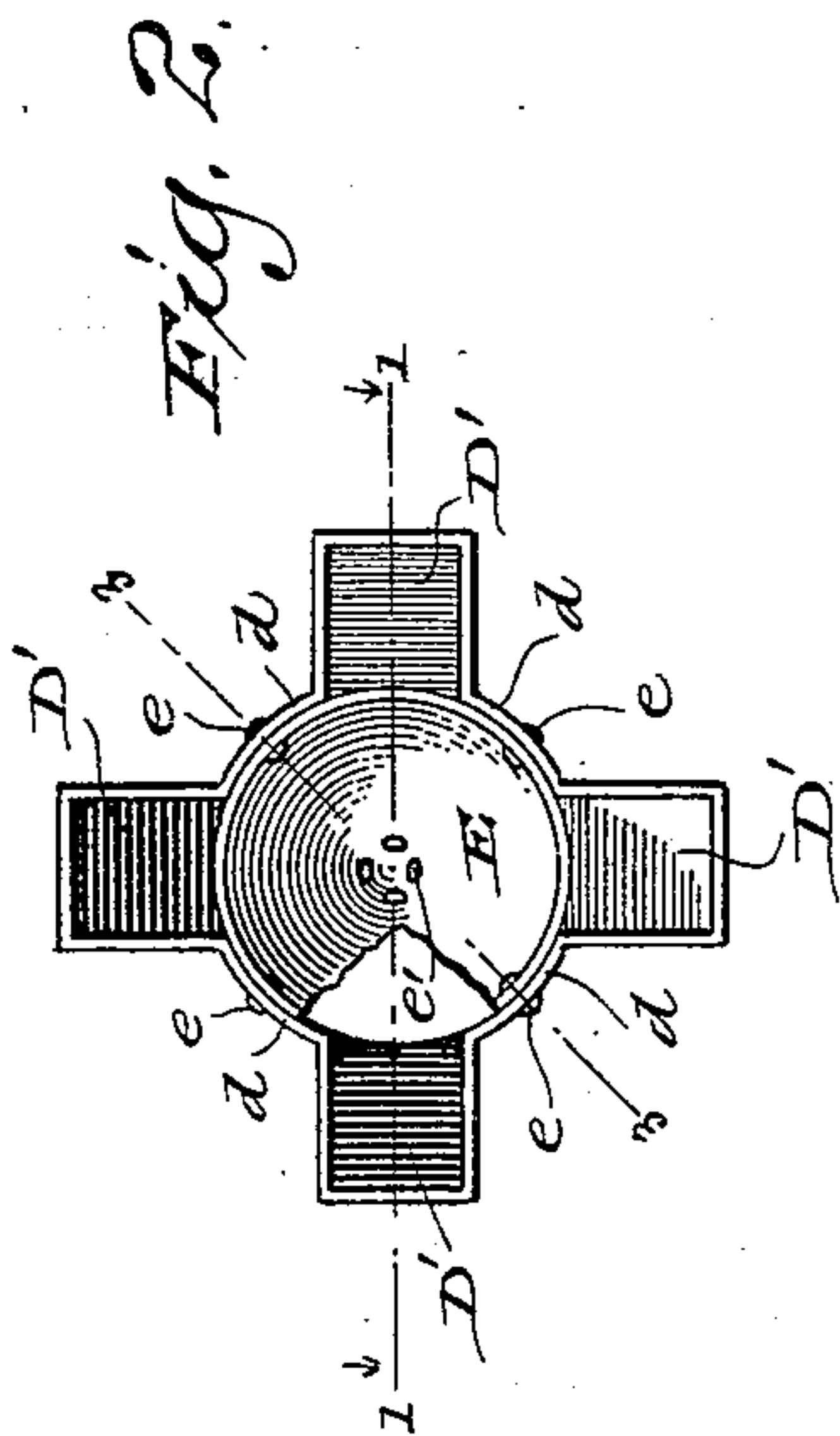


(No Model.)

H. M. ALLEN.
MAGAZINE FOR STOVES OR FURNACES.

No. 512,262.

Patented Jan. 9, 1894.



Witnesses
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John C. Miles.

Inventor
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UNITED STATES PATENT OFFICE.

HENRY M. ALLEN, OF MILWAUKEE, WISCONSIN.

MAGAZINE FOR STOVES OR FURNACES.

SPECIFICATION forming part of Letters Patent No. 512,262, dated January 9, 1894.

Application filed February 1, 1893. Serial No. 460,548. (No model.)

To all whom it may concern:

Be it known that I, HENRY M. ALLEN, a citizen of the United States, and a resident of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented certain new and useful Improvements in Magazines for Stoves or Furnaces; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to new and useful improvements in magazines for stoves or furnaces and consists in the matters hereinafter described and pointed out in the appended claims.

In the accompanying drawings illustrating my invention: Figure 1 is a vertical central sectional view of a stove provided with my improvement, and showing my improved magazine in section upon line 1—1 of Fig. 2. Fig. 2 is an inverted plan view of my improved magazine. Fig. 3 is a vertical sectional view of the same taken on line 3—3 of Fig. 2.

In said drawings:—A represents the stove, B the grate, and C the fire pot of the stove, all of which may be of any of the ordinary forms of construction.

I provide a suitable magazine within the upper part of the stove above the fire pot, said magazine comprising a cylindric upper part D and a plurality of outwardly divergent chutes D' D' at the lower end of the magazine and communicating with the lower end of the cylindric part D, of the same.

A conical deflector E is secured concentrically within the lower end of the magazine, the base of said deflector being made substantially of the same diameter upon its outside, as the inside diameter of the cylindric part of the magazine.

The side walls of the magazine are carried downwardly between the chutes D' D', in line with the cylindric upper part D thereof, as shown at *d d* and the lower end or base of the conical deflector E, is secured to these portions *d d* of the walls of the magazine, in any desired or convenient manner, as by bolts, rivets or other suitable fastening devices *e e*, or said conical deflector might, of course, be cast integral with the magazine.

The magazine is secured in position within the upper part of the stove in the usual man-

ner, and the usual cover F is movably engaged with the top of the stove above the upper end of the magazine, as shown in Fig. 1, of the drawings.

Adjacent to the apex of the conical deflector E, I provide one or more suitable slots or perforations *e' e'*, for a purpose to be presently described.

It will be seen that by the described construction, when coal is poured into the upper end of the magazine and descends into the lower part of the same, it will be crowded outward by the conical deflector E, and caused to enter the several chutes D D, from the lower ends of which it will be discharged into the combustion chamber of the stove, outside the periphery of the base of said deflector. In this manner the coal will be distributed around the combustion chamber of the stove, instead of being heaped in the center of the fire box beneath the central part of the magazine, as is the case with the usual form of construction. By thus distributing the coal instead of permitting it to pile up in the center of the fire box, a much better combustion of the coal is insured and the greatest possible amount of heat is therefore evolved from the fuel.

By providing the slots or apertures *e' e'* in the upper end of the conical deflector E, any accumulation of gas upon the inside of said deflector is prevented, inasmuch as said apertures afford a convenient outlet for the escape of said gas into the magazine.

My improved device is exceedingly simple in its construction and effective and beneficial in its operation, and readily applicable to any form of magazine stove or furnace.

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

1. A magazine for stoves or furnaces comprising a vertically disposed cylindric portion, a series of oblique outwardly divergent chutes communicating with the lower end of said cylindric portion and a substantially cone shaped deflector located concentrically within the lower part of said magazine and arranged to direct the coal into said chutes as it descends from the upper cylindric part of the magazine substantially as set forth.

2. A magazine for stoves or furnaces, com-

prising a vertically disposed cylindric portion adapted for engagement with the upper part of the stove or furnace, a series of oblique outwardly divergent chutes communicating with the lower end of said cylindric portion, the side walls of the magazine being prolonged downward in between said chutes, in line with said upper cylindric portion, and a substantially cone shaped deflector secured at its base to said portions of the side walls between said chutes and arranged to direct the coal into said chutes, substantially as set forth.

3. A magazine for stoves or furnaces comprising a vertically disposed cylindric portion, a series of oblique outwardly divergent chutes communicating with the lower end of

said cylindric portion, and a substantially cone shaped deflector located concentrically within the lower part of said magazine and arranged to direct the coal into said chutes as it descends from the upper cylindric part of the magazine and provided in its upper end with one or more suitable gas outlet apertures, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

HENRY M. ALLEN.

Witnesses:

JOHN E. WILES,
H. G. UNDERWOOD.