

O. D. SPALDING.
Stove-Drums.

No. 154,621.

Patented Sept. 1, 1874.

Fig. 1

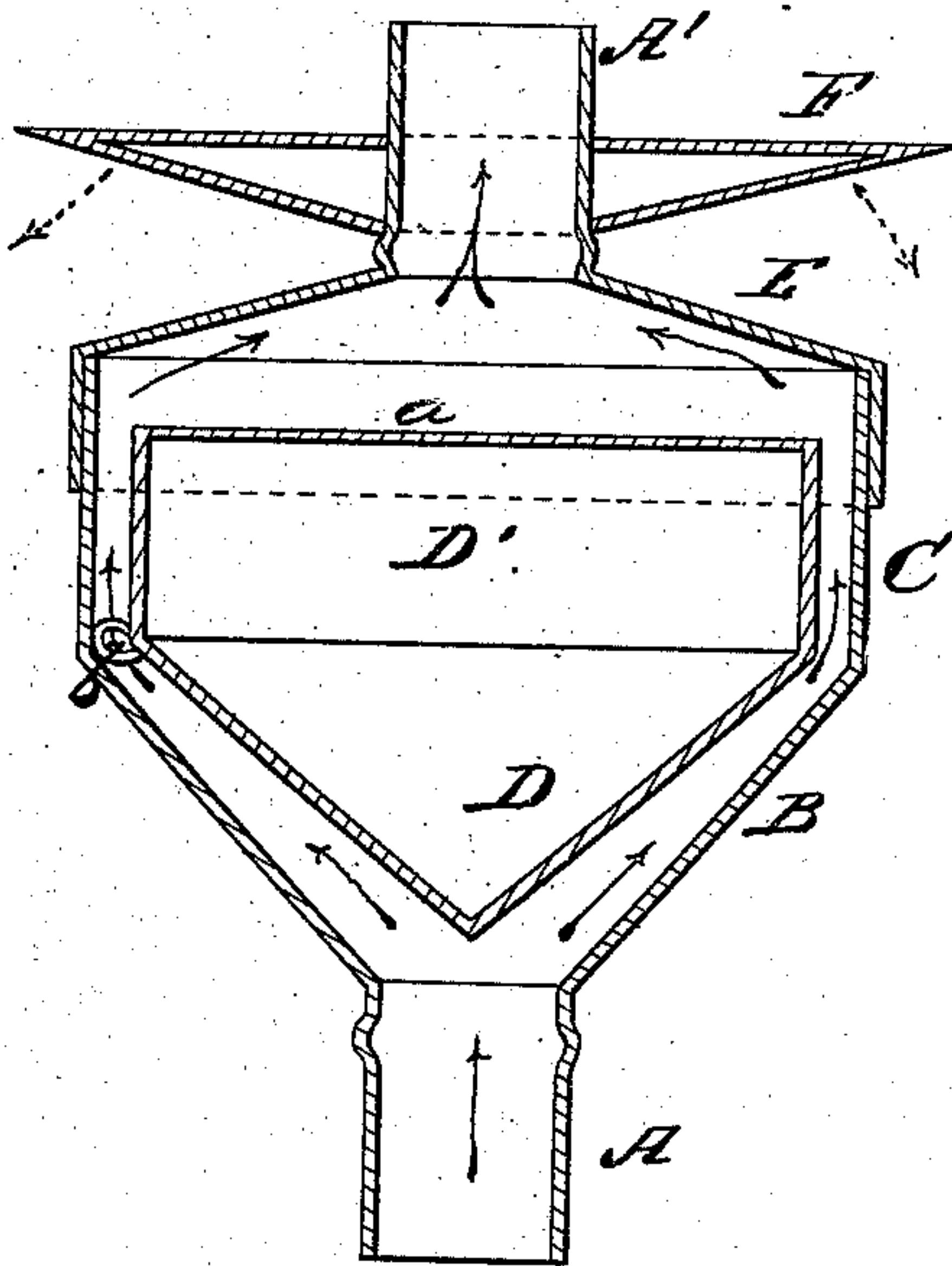


Fig. 2.

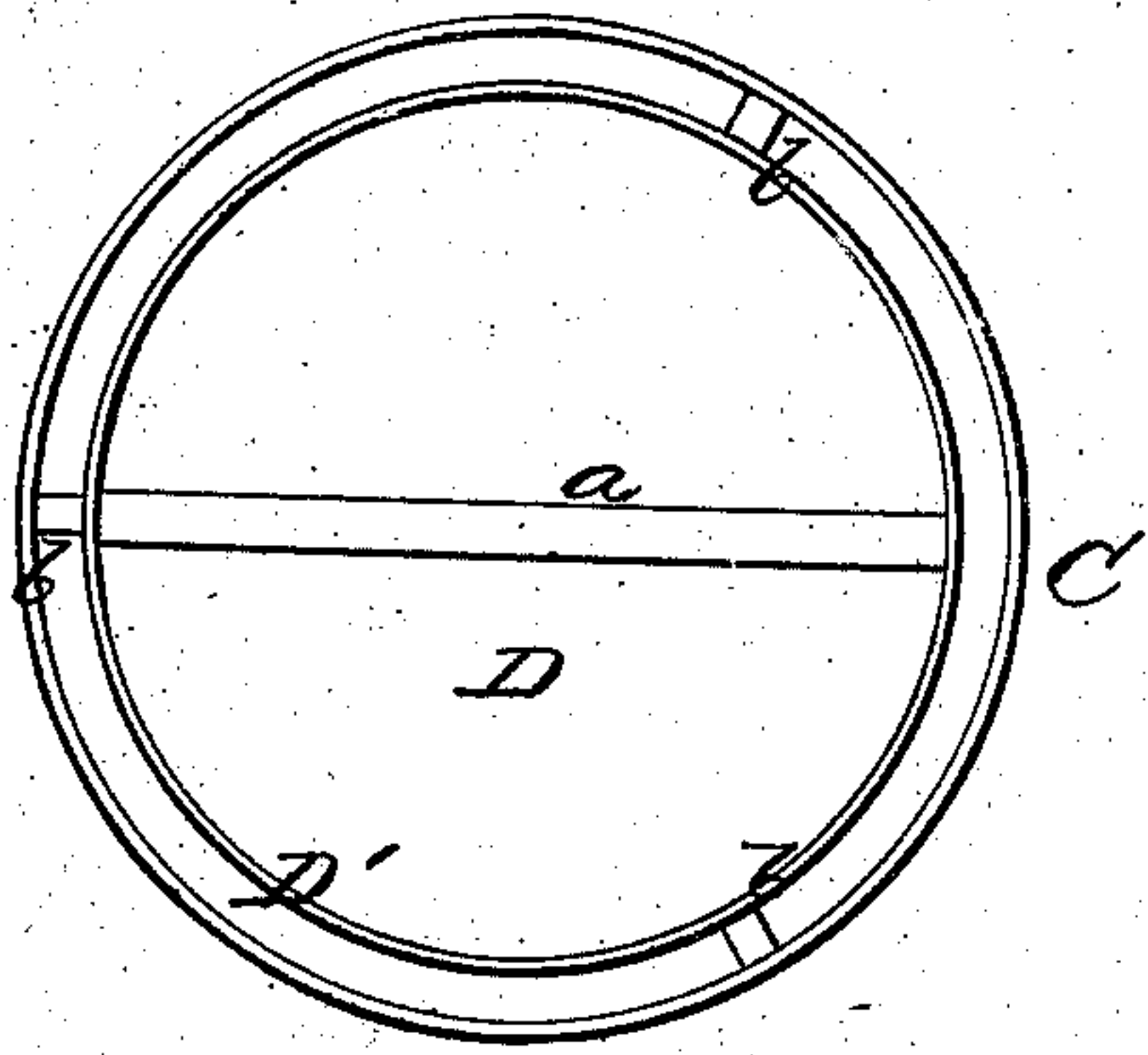
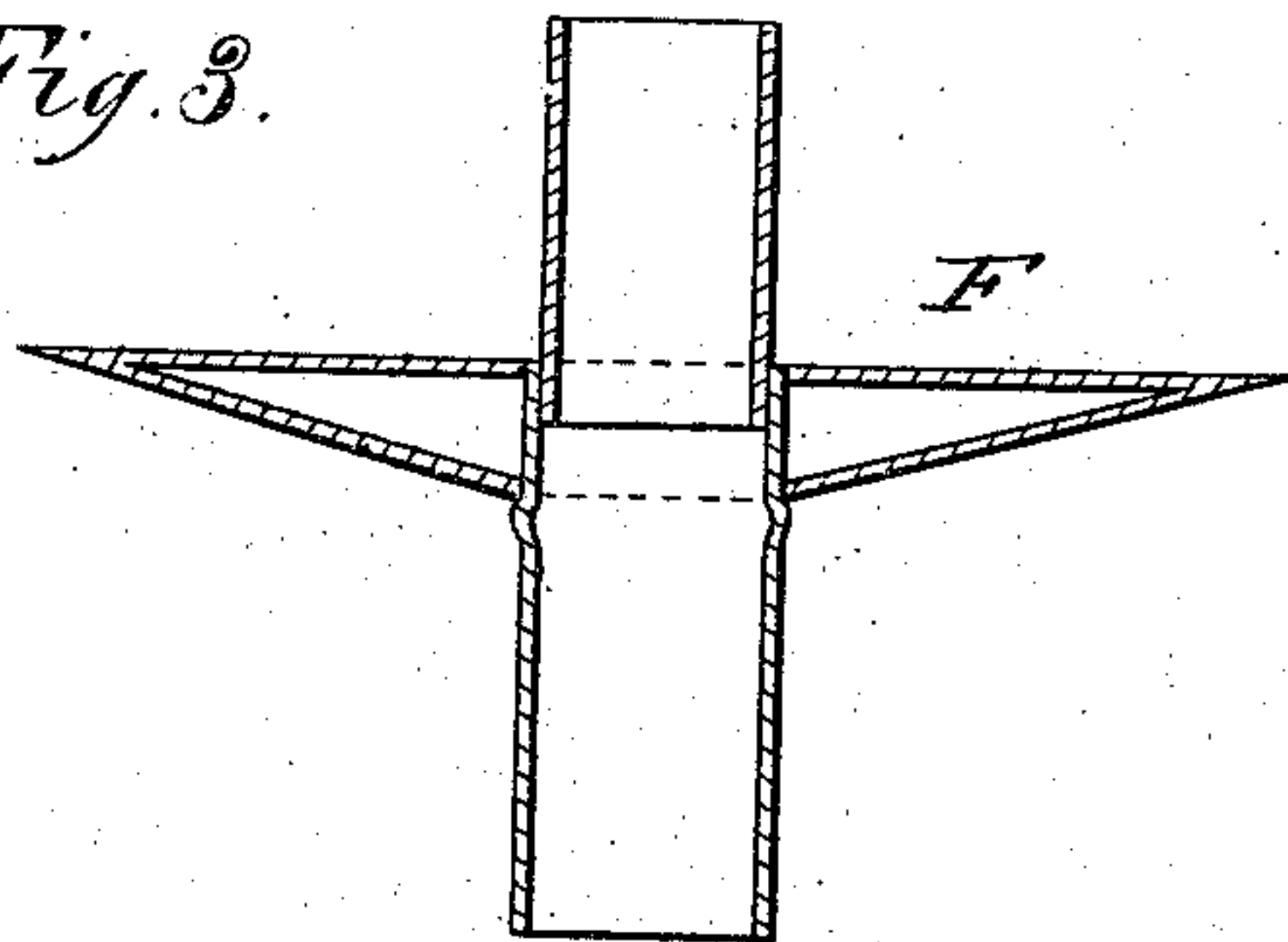


Fig. 3.



WITNESSES
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ORLANDO D. SPALDING, OF MANKATO, MINNESOTA.

IMPROVEMENT IN STOVE-DRUMS.

Specification forming part of Letters Patent No. 154,621, dated September 1, 1874; application filed March 28, 1874.

To all whom it may concern:

Be it known that I, ORLANDO D. SPALDING, of Mankato, in the county of Blue Earth and State of Minnesota, have invented a new and valuable Improvement in Stove-Drums; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a sectional view of my stove-drum. Fig. 2 is an end view of the same, and Fig. 3 is a sectional detail.

This invention has relation to stove-pipe radiators, which also serve as supports for articles which it is desired to keep warm without infringing on the stove space. It consists in the construction and arrangement of the parts, as will be hereinafter more fully described and claimed.

In the annexed drawings, A A' designate two collars, which are adapted to receive stove-pipe sections, which form a continuity of flue through the radiating drum. B designates an inverted cone, and C a cylindrical portion, which forms a cylindro-conical drum-section. This is the lower section of the drum, on the lower end of which the collar A is formed. E designates the upper section of the drum, which is removable, and which, like the lower section, is cylindro-conical, the cylindrical portion of which being fitted tightly over the cylindrical portion C of the lower section of this drum, as shown in Fig. 1. The upper end of the conical portion of the upper removable section E terminates in the stove-pipe collar A', which latter may be made of any desired length, and it may have a rib formed on it, as shown in Fig. 1, for a purpose hereinafter explained. Inside of the drum thus described is another section, which is composed of an inverted cone, D, and a cylindrical portion, D', formed on the base of the latter. The section D D' is sup-

ported by lugs b upon the inner side of the cone B, which isolates the former from the latter and leaves a space, which, at first, is upwardly flaring, and then vertical, through which space the heated products of combustion are compelled to pass; they are then caused to converge toward the collar A', through which they pass into the stove-pipe above. The section D D' is removable by means of a handle, a, when the drum-section E is taken off of its lower section. When this is done the interior of the drum, as well as the removable interior section, can be cleaned of any adhering soot. F designates a plano-concave shelf, which is hollow, and which rests upon a bead formed on the collar A'. The upper surface of this shelf is horizontal, for the purpose of supporting dishes, &c., and the lower side of this shelf is conical, for the purpose of radiating downwardly and outwardly the heat. The interior of this shelf receives more or less heat from the stove-pipe, which heat is radiated downwardly and outwardly, as just stated. The heat which is radiated upwardly from the top of the drum beneath will also be reflected into the room by the bright bottom surface of the shelf F. During the warm days of summer the drum B C E may be omitted and the shelf F used alone, as indicated in Fig. 3.

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

The sleeves or collars A A', formed respectively on the detachable cylindro-conical sections B, C, and E, in combination with the isolated removable and internal section D D', and with the removable plano-convex shelf F, substantially as described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ORLANDO DEMIS SPALDING.

Witnesses:

O. A. PITCHER,
E. H. GUILBERT.