

(No Model.)

J. P. RASMUSSEN & J. OLIVER.
STOVE.

No. 559,207.

Patented Apr. 28, 1896.

Fig: 1.

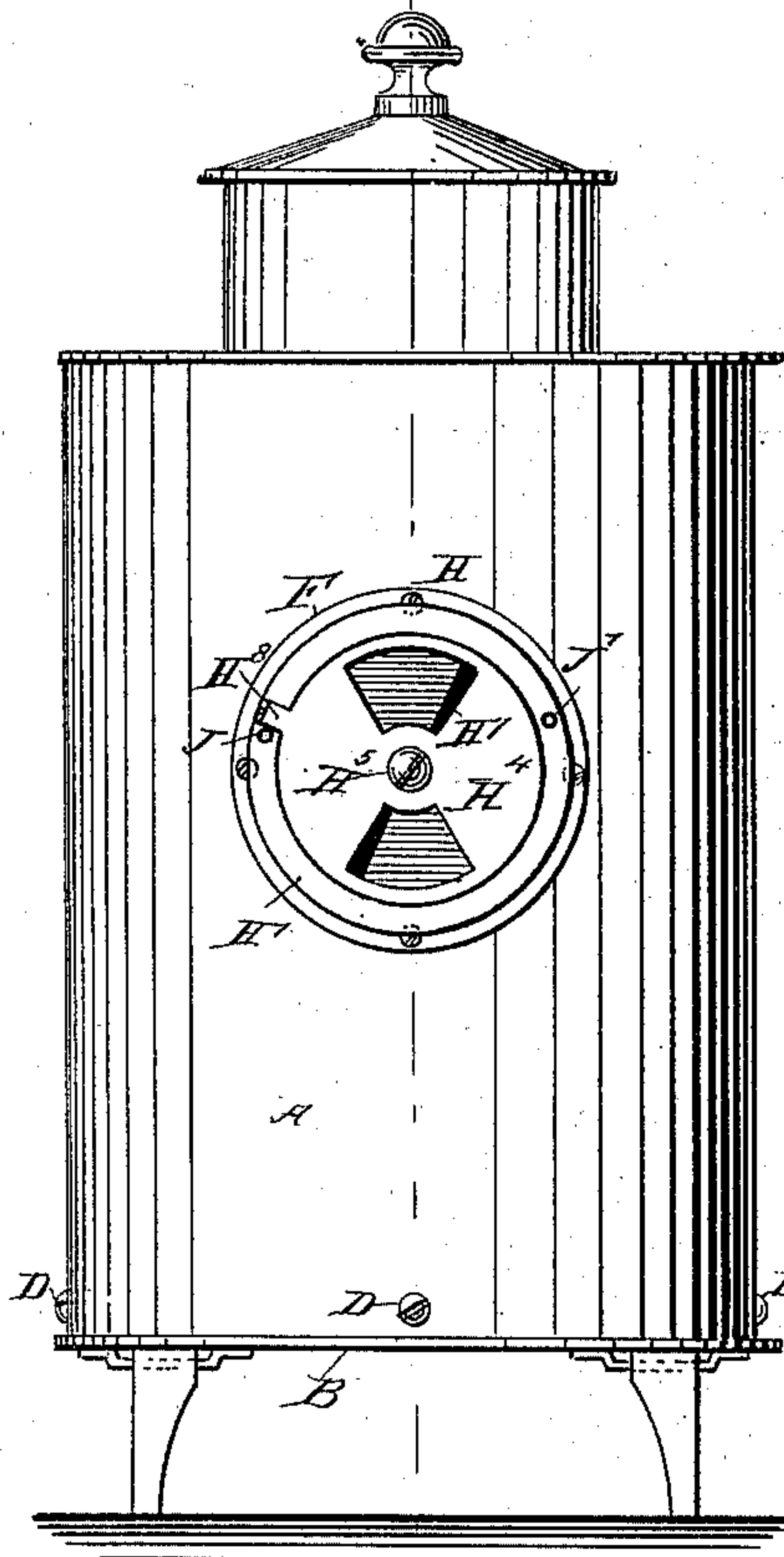


Fig: 2.

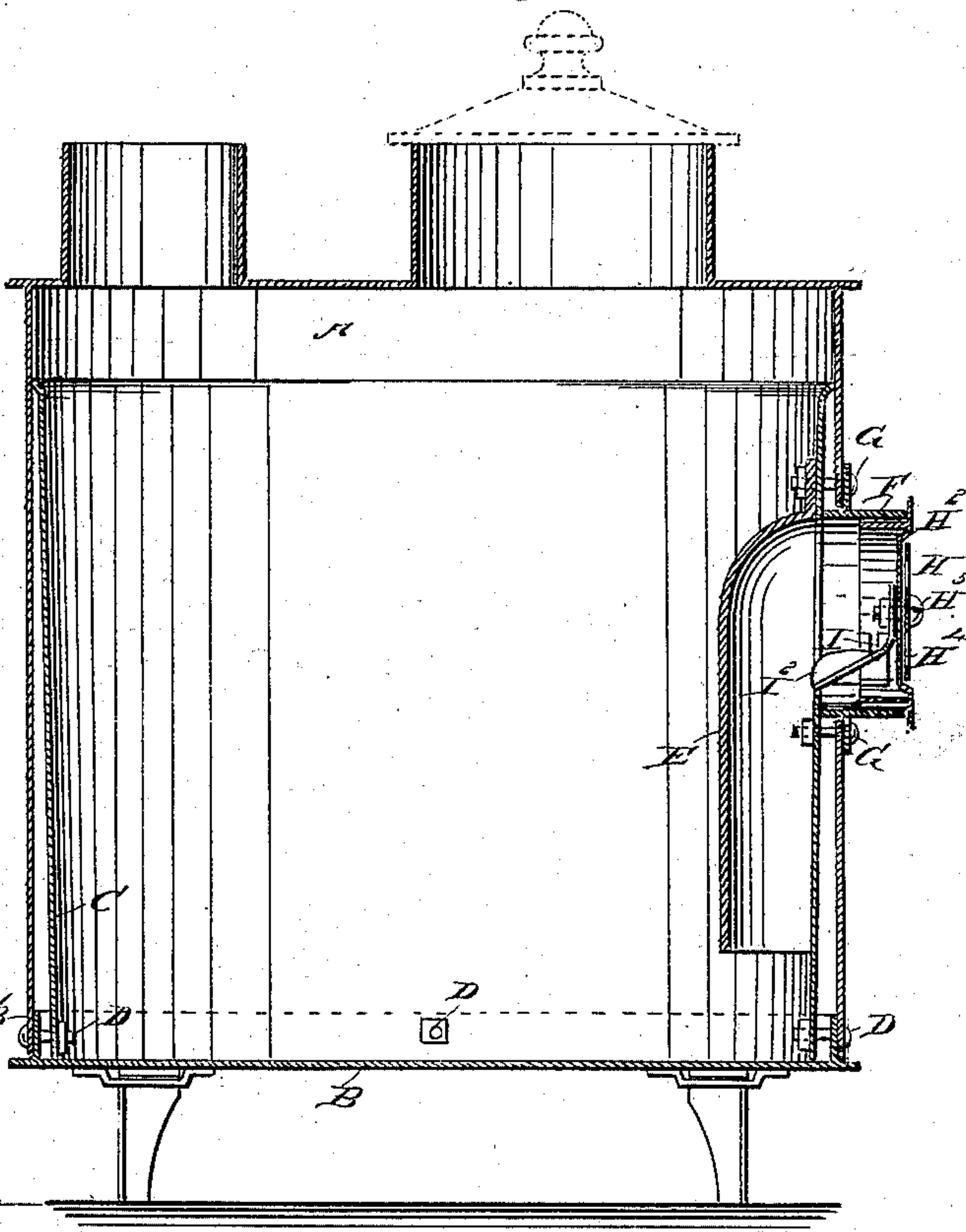
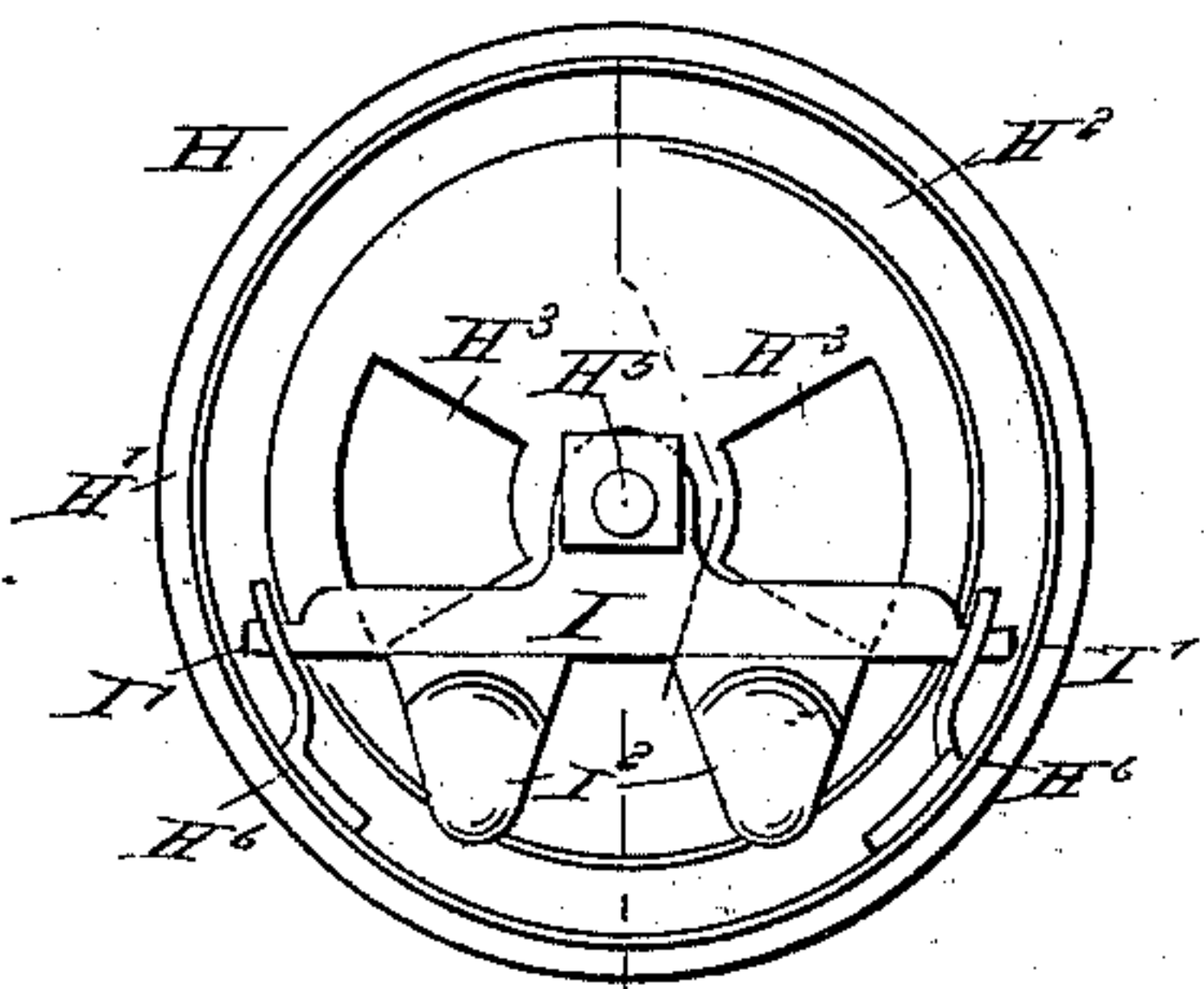


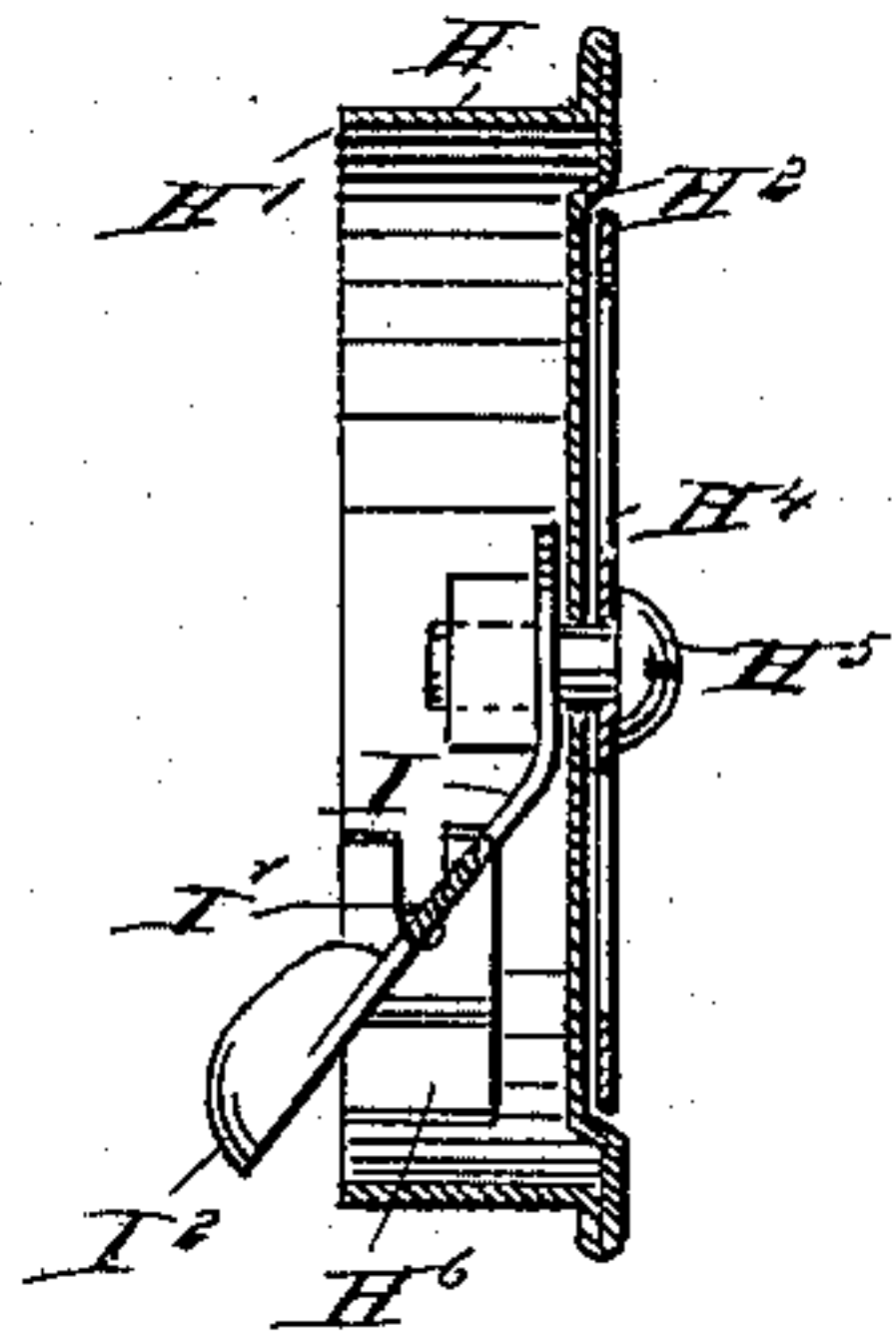
Fig: 3.



WITNESSES:

Chas. Vida
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Fig: 4.



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UNITED STATES PATENT OFFICE.

JAMES P. RASMUSSEN AND JAMES OLIVER, OF TACOMA, WASHINGTON.

STOVE.

SPECIFICATION forming part of Letters Patent No. 559,207, dated April 28, 1896.

Application filed April 23, 1895. Serial No. 546,899. (No model.)

To all whom it may concern:

Be it known that we, JAMES P. RASMUSSEN and JAMES OLIVER, of Tacoma, in the county of Pierce and State of Washington, have invented certain new and useful Improvements in Stoves, of which the following is a full, clear, and exact description.

The invention relates to sheet-metal stoves for burning wood; and its object is to provide certain new and useful improvements in stoves whereby an air-tight casing is produced and the damper is securely held to its seat irrespective of the expansion and contraction of the sheet metal.

The invention consists of certain parts and details and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a front elevation of the improvement. Fig. 2 is a sectional side elevation of the same on the line 2 2 of Fig. 1. Fig. 3 is an enlarged inner face view of the damper, and Fig. 4 is a cross-section of the same on the line 4 4 of Fig. 3.

The improved stove is provided with a sheet-metal casing A and a bottom B having an upturned flange B' extending on the inner face of the said casing between the latter and a lining C, all three being fastened together by bolts D, as is plainly illustrated in the drawings.

It will be seen that the lining at its top connects with the casing and that the lining and casing form a permanently closed number. By this arrangement a very tight casing is produced, as the upturned flange B' extends between the lower ends of the casing and the lining.

Into the casing A and on the inside of the lining extends downwardly the usual cast-iron draft-protector E, leading to the draft-casing F, fastened by bolts G to the casing, the said bolts also serving to fasten the draft-protector E in position, as plainly indicated in the drawings.

In the draft-casing F is fitted a damper H provided with an annular rim H', formed with a front H², somewhat depressed, as plainly indicated in Fig. 4, to receive a damper-disk H⁴, mounted to turn on a pivot H⁵, held securely in the front H². On the inner end of

the pivot H⁵ presses an arm I, provided with trunnions I', journaled in suitable bearings H⁶, secured to the inside of the rim H', as plainly shown in Figs. 3 and 4. On the lower end of this arm I are secured weights I² for pressing the bolt H⁵ inward, so as to cause the head of the bolt to press the damper-disk H⁴ firmly upon its seat in the depressed front H². By this arrangement a very tight joint is established between the disk H⁴ and the front H², irrespective of the expansion and contraction of the metal.

By reference to Fig. 4 it will be seen that the arm I is inclined and its upper end abuts against the nut of the bolt H⁵. In the front H² are arranged the usual damper-openings H³, adapted to register with similar openings H⁷ formed in the disk H⁴. The disk H⁴ is provided on one side with a handle H⁸, adapted to abut against stops J and J' on the front H² and located in such a manner that when the handle H⁸ is against the stop J the openings H³ H⁷ slightly register to insure a slow draft. When the handle stands about midway between the two stops J and J', the openings register, and when the handle is against the stop J' the openings are out of register.

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

1. A stove, provided with a damper comprising a casing having a depressed front, a disk mounted to turn and adapted to be seated on the said seat, a bolt on which the said disk is mounted to turn, and a weighted arm pivoted in the damper-casing and engaging the said bolt, to cause the latter to press the disk upon its seat, substantially as shown and described.

2. A stove-damper, comprising a fixed part and a rotary part, a pivot on which the movable part may rotate, and a fulcrumed arm engaging at one end with the pivot or a part thereon and having its other end inclined inward and downward and weighted, whereby said weighted arm will hold the rotary part in the direction of its axis, yieldingly against the fixed part, substantially as shown and described.

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Witnesses:

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