

No. 859,030.

PATENTED JULY 2, 1907.

S. WALKER & A. J. FAULDING.

PORTABLE STOVE.

APPLICATION FILED AUG. 11, 1905.

2 SHEETS—SHEET 1.

Fig. 3

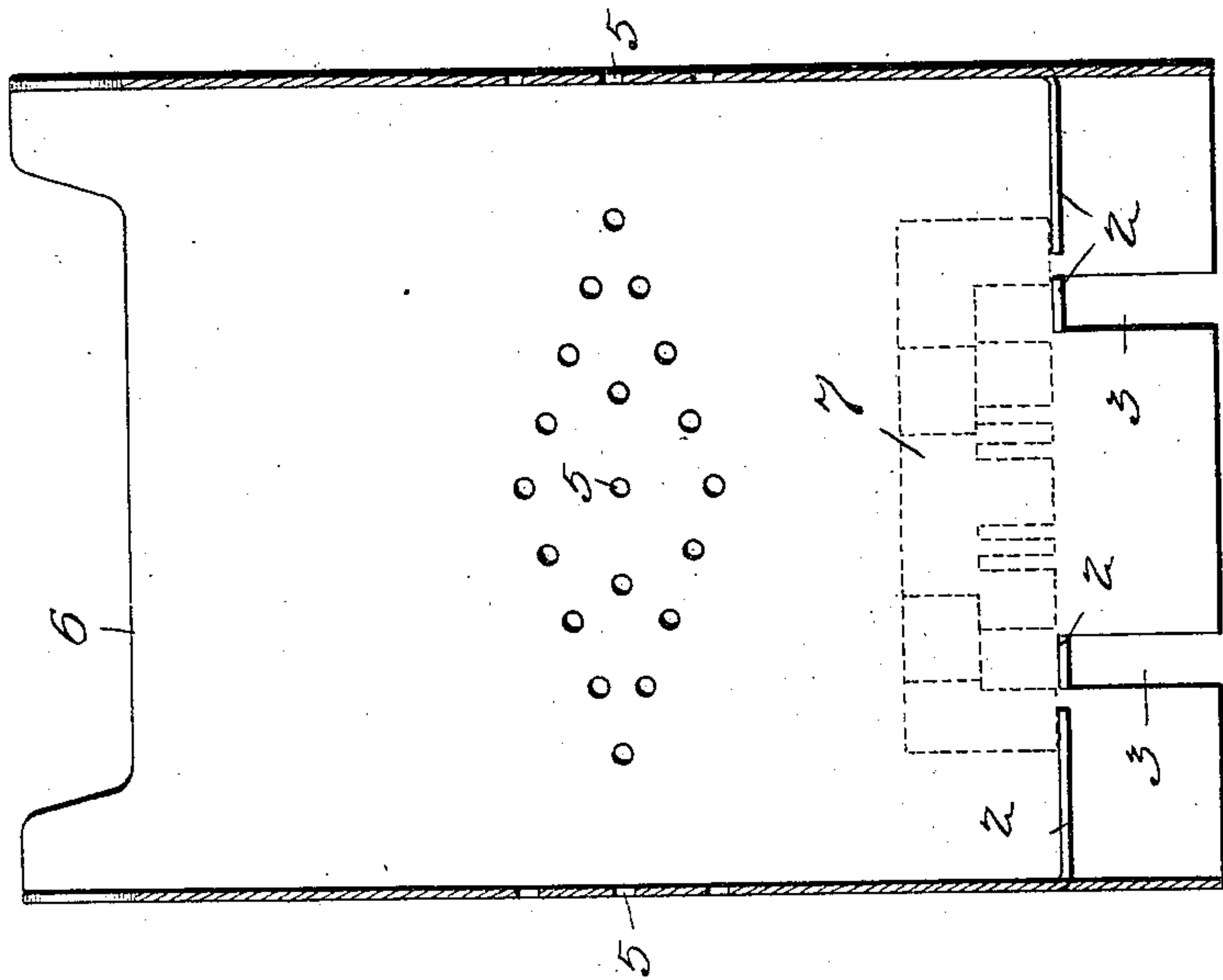
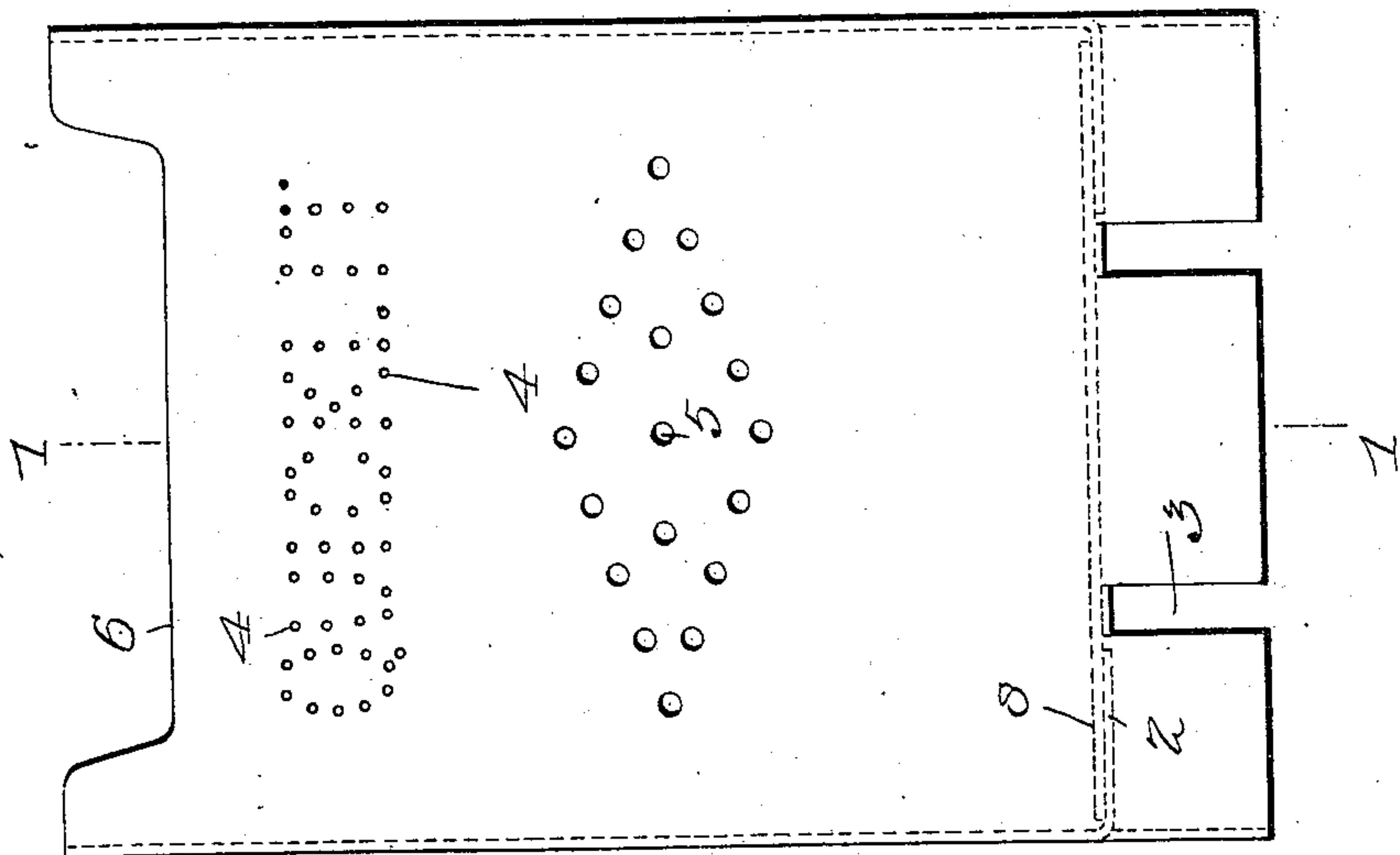


Fig. 1



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2 SHEETS—SHEET 2.

Fig. 2.

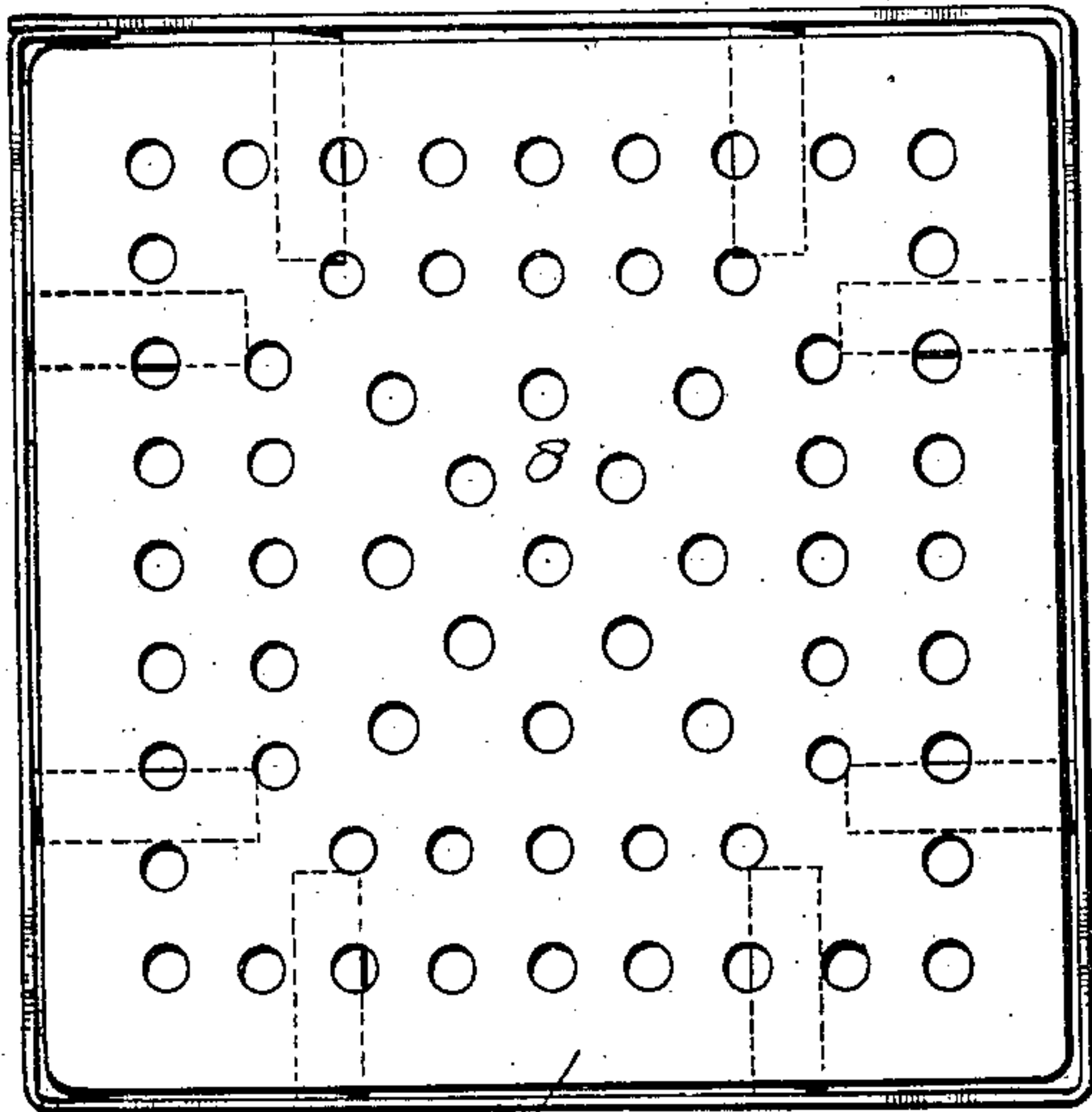


Fig. 4.

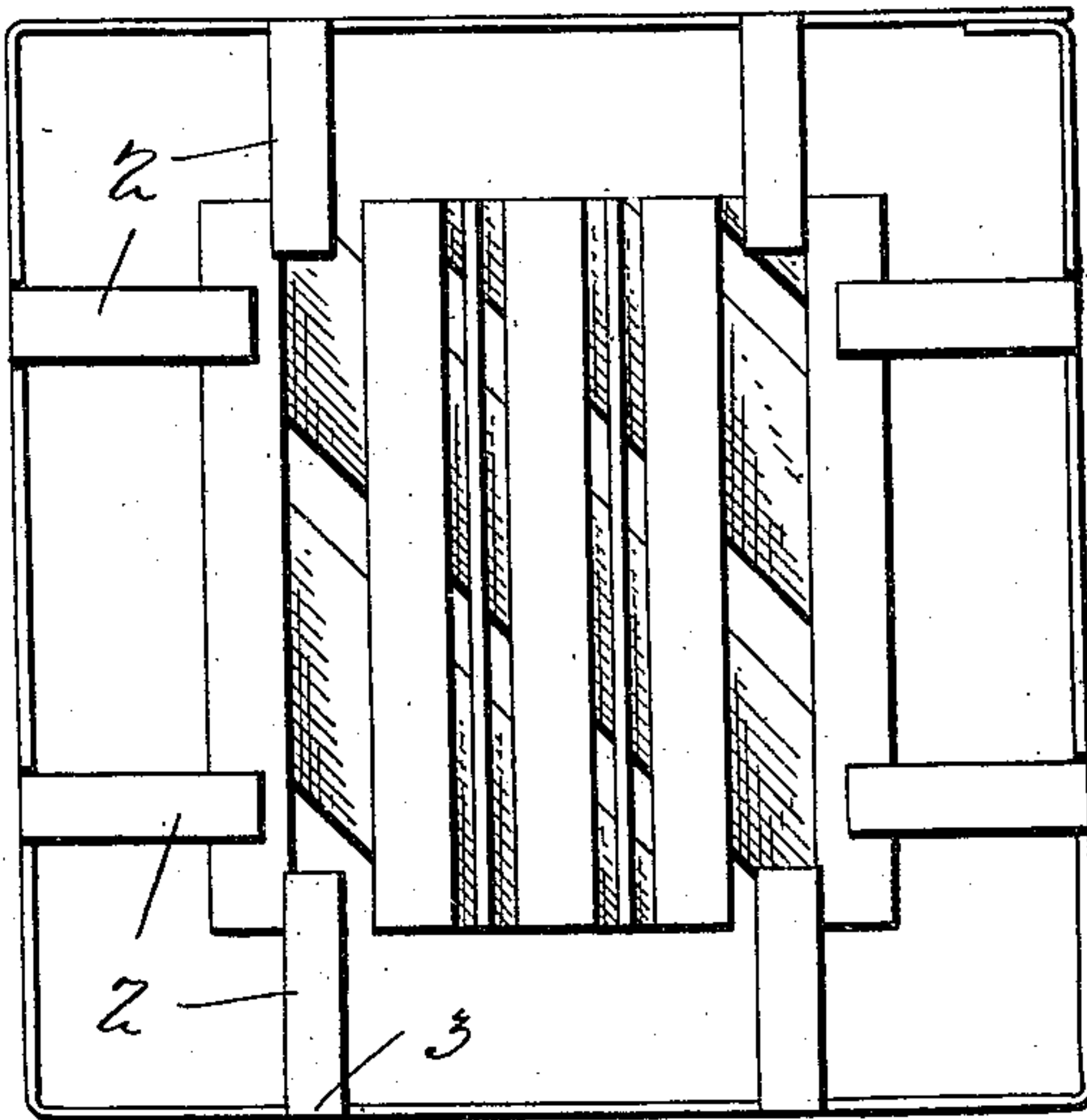
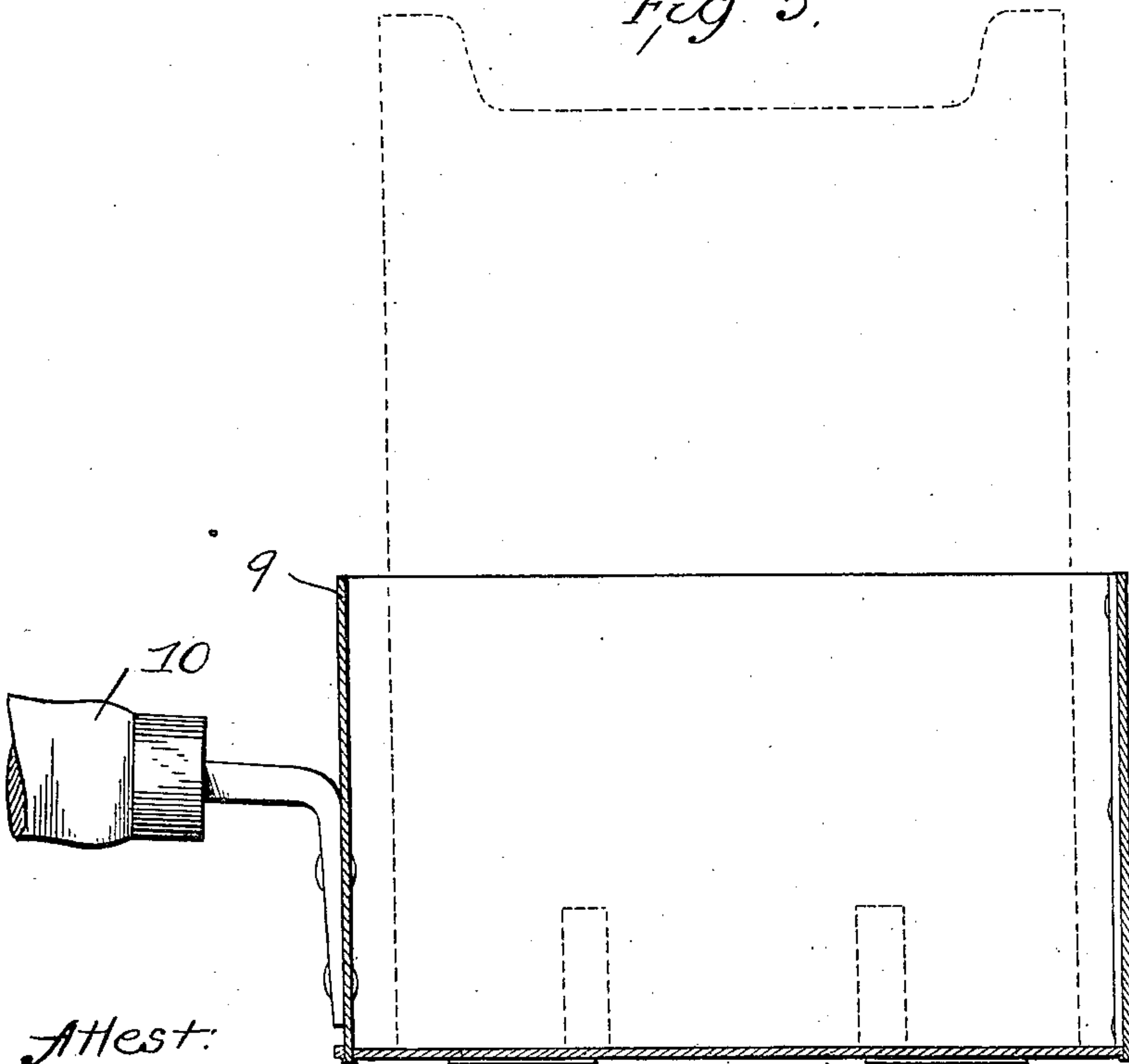


Fig. 5.



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UNITED STATES PATENT OFFICE.

SQUIRE WALKER AND ALFRED J. FAULDING, OF BRADFORD, ENGLAND, ASSIGNORS TO
POLLARD & METCALFE LTD., OF BRADFORD, ENGLAND.

PORTABLE STOVE.

No. 859,030.

Specification of Letters Patent.

Patented July 2, 1907.

Application filed August 11, 1905. Serial No. 273,839.

To all whom it may concern:

Be it known that we, SQUIRE WALKER and ALFRED J. FAULDING, subjects of the King of England, residing at Bradford, England, have invented new and useful
5 Improvements in Portable Stoves, of which the following is a specification.

The portable stove, which we have invented, and which is the subject of this specification, is designed and especially useful in connection with the form of
10 fuel shown in Letters Patent of the United States, granted Edwin Pollard on the 14th day of July 1903 and numbered 733675, though its use is not necessarily limited to that particular form of fuel.

It is designed particularly for that form which has
15 perforations or openings through the block and is available for other forms and kinds of fuel where heat for a brief time is required, as for example in heating water, cooking a chop, or boiling eggs, and where economy of space or fuel is desirable.

20 Our said stove is illustrated in the accompanying drawings, in which,—

Figure 1 shows a side elevation of this stove, Fig. 2 a top view without the fuel in place, Fig. 3 shows the stove in section on line 1—1 of Fig. 1 with the
25 fuel in place, Fig. 4 shows a view of the bottom with the fuel in place, Fig. 5 shows a central vertical section of a pan for the stove which is represented in place in dotted lines.

The shell of the stove is formed preferably of sheet
30 metal and may be made with one piece with meeting edges lapped and riveted. On the top at each corner is a projection of the sheet metal forming supporting posts for the article to be heated. At the bottom are tongues 2 formed out of the sheet metal by pairs of slots
35 from the bottom upward, the tongues being bent inward to a horizontal position to form lugs for the support of the fuel. At the same time the openings 3 left by the bending of these tongues serve as draft holes. Other draft holes may also be provided as shown in the
40 row of holes marked 4 and 5 respectively. The spaces 6 in the metal cut away between the posts serve also to admit air to permit complete combustion.

The block of fuel indicated in dotted lines at 7, may
45 be laid directly on the lugs and with perfect effect if the stove be small, say of four or five inches in lateral

dimension, but for larger sizes, and in any case, a grate 8 may be laid upon the lugs for the direct support of the fuel. We have provided also a pan 9 having a handle
10 into which the stove may loosely set, the pan receiving the ashes falling from the burned fuel. 50

When the improved fuel block is used with this stove it is placed (preferably a single block) on the lugs or grate, ignited by a match, and, in the smallest sizes will generate heat sufficient to boil a quart of water starting from ordinary atmospheric temperatures. 55

The openings in the block permit the free passage of the air upwards therethrough and the lower lateral holes in the wall of the stove admit air to support combustion at the edges. The upper holes admit air to the products of combustion impinging against the pan
60 or plate above.

The construction shown permits the packing of five or six blocks in the stove for convenience of transportation. 65

We claim as our invention:—

1. A portable stove consisting of a shell of sheet metal, the walls of the stove having pairs of slots therein extending from the bottom upwardly forming tongues, said
70 tongues being bent at right angles to form supports for the fuel and leaving draft openings 3.

2. A portable stove consisting of a shell of sheet metal, the walls of the stove having pairs of slots therein extending from the bottom upwardly forming tongues, said
75 tongues being bent at right angles to form supports for the fuel and leaving draft openings 3, projections on the walls at the top forming a support for the article to be heated and lateral openings in the walls above the fuel support. 80

3. A portable stove consisting of a shell of sheet metal, the walls of the stove having pairs of slots therein extending from the bottom upwardly forming tongues, said
85 tongues being bent at right angles to form supports for the fuel and leaving draft openings 3, projections on the walls at the top forming a support for the article to be heated and lateral openings in the walls above the fuel support and a pan having a handle thereon adapted to receive the stove, said pan being of greater diameter than the stove.

In testimony whereof, we affix our signatures in presence of two witnesses.

SQUIRE WALKER.
ALFRED J. FAULDING.

Witnesses:
FRED HAMMOND,
W. H. KENNARD.