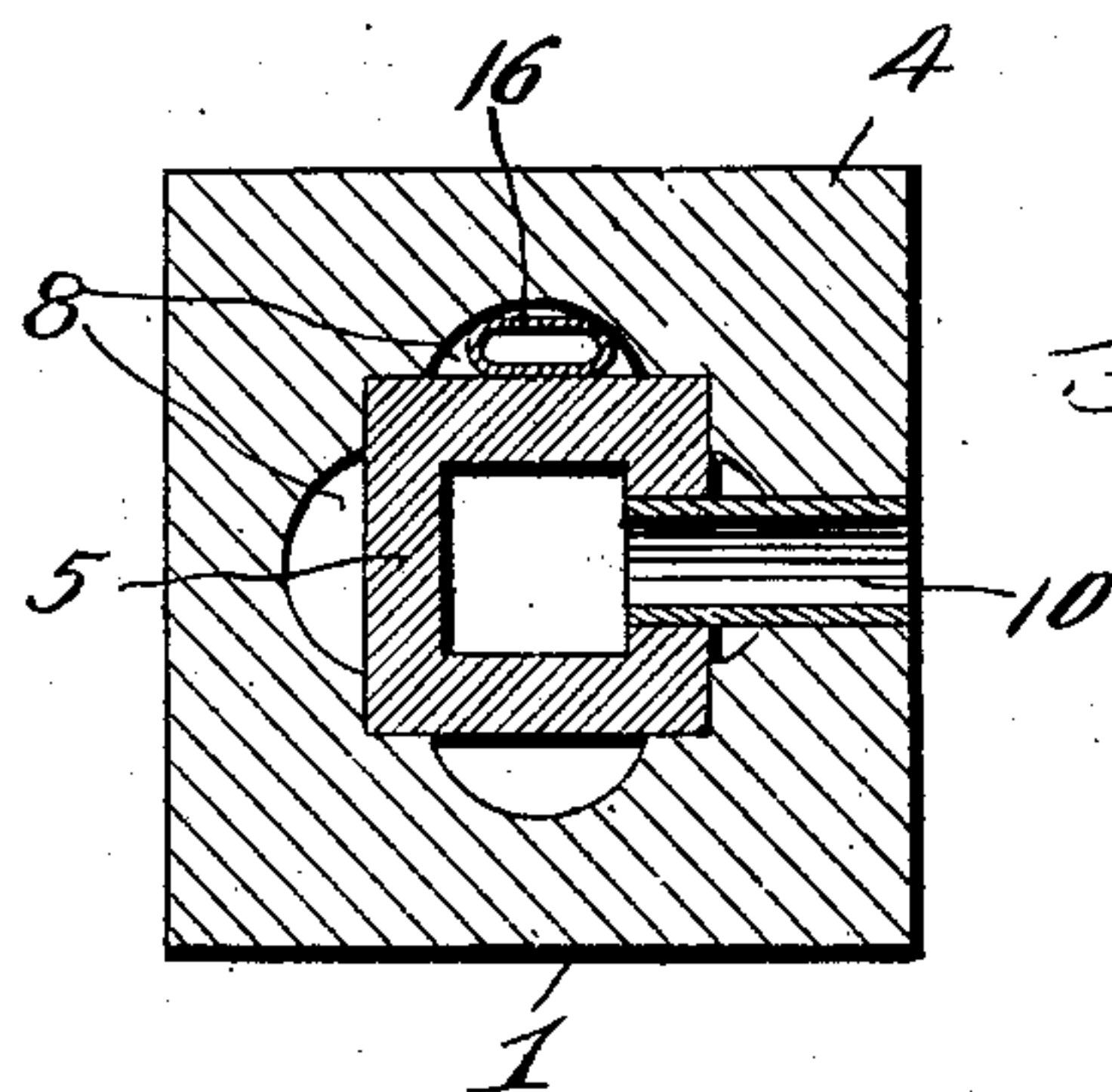
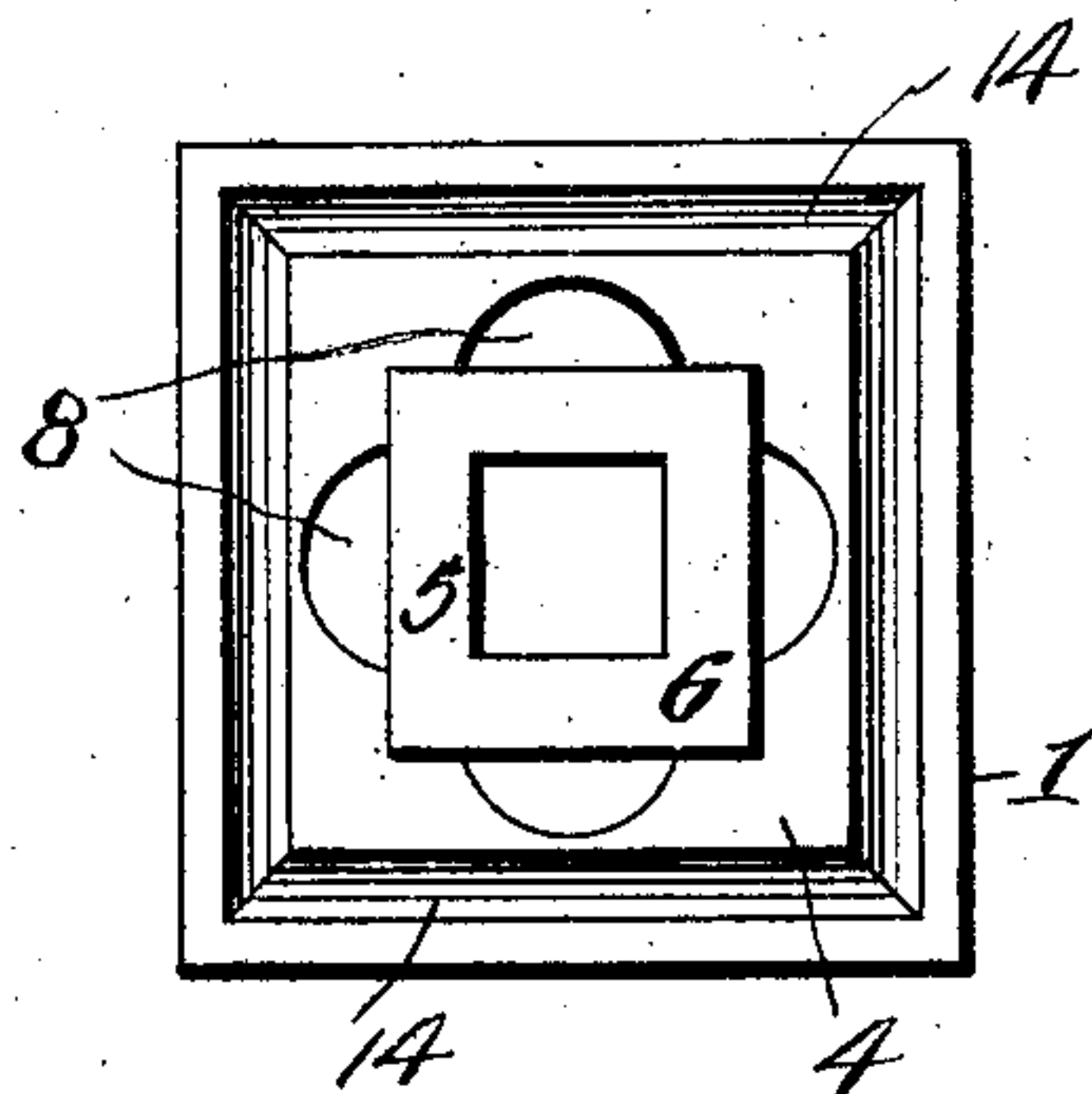
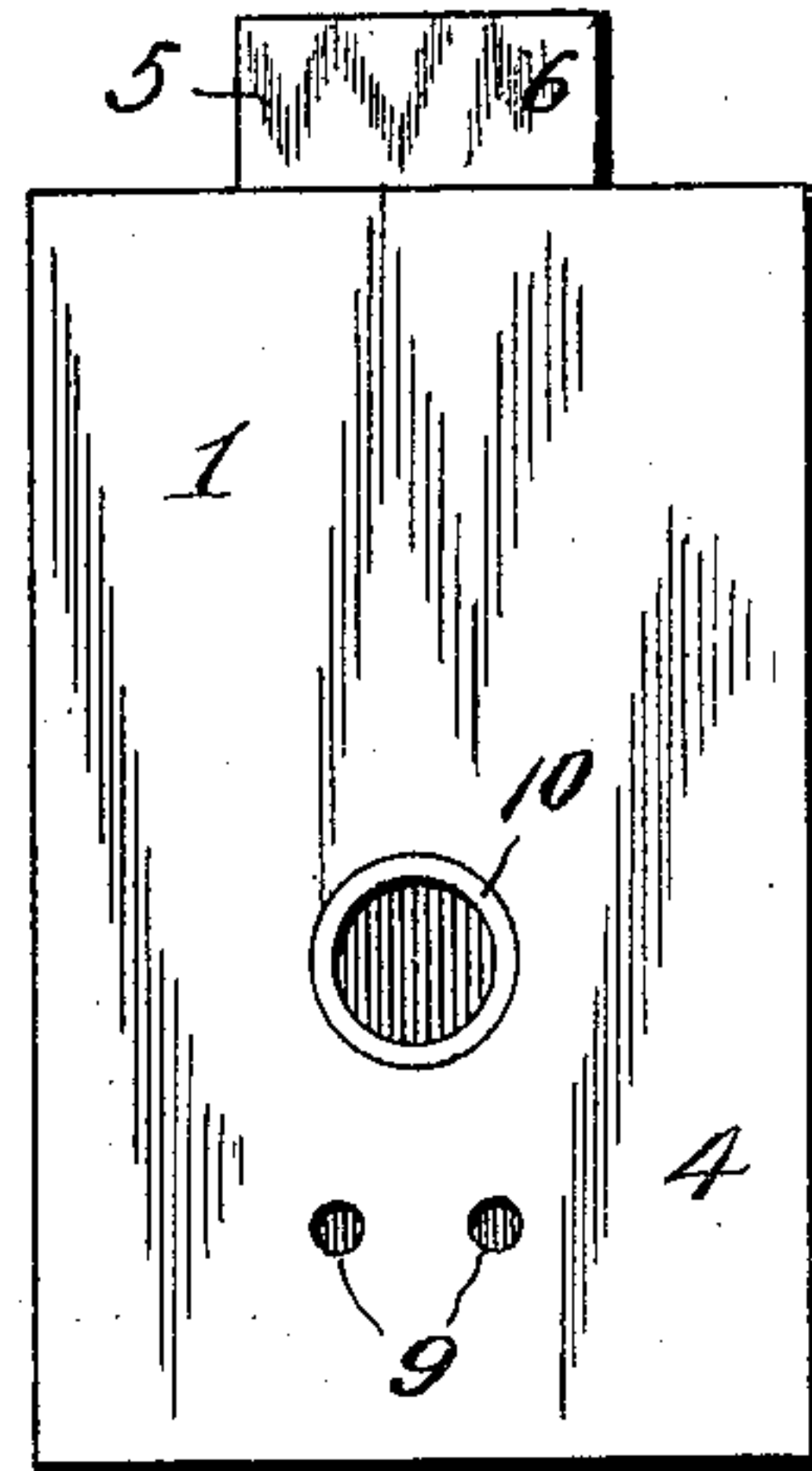
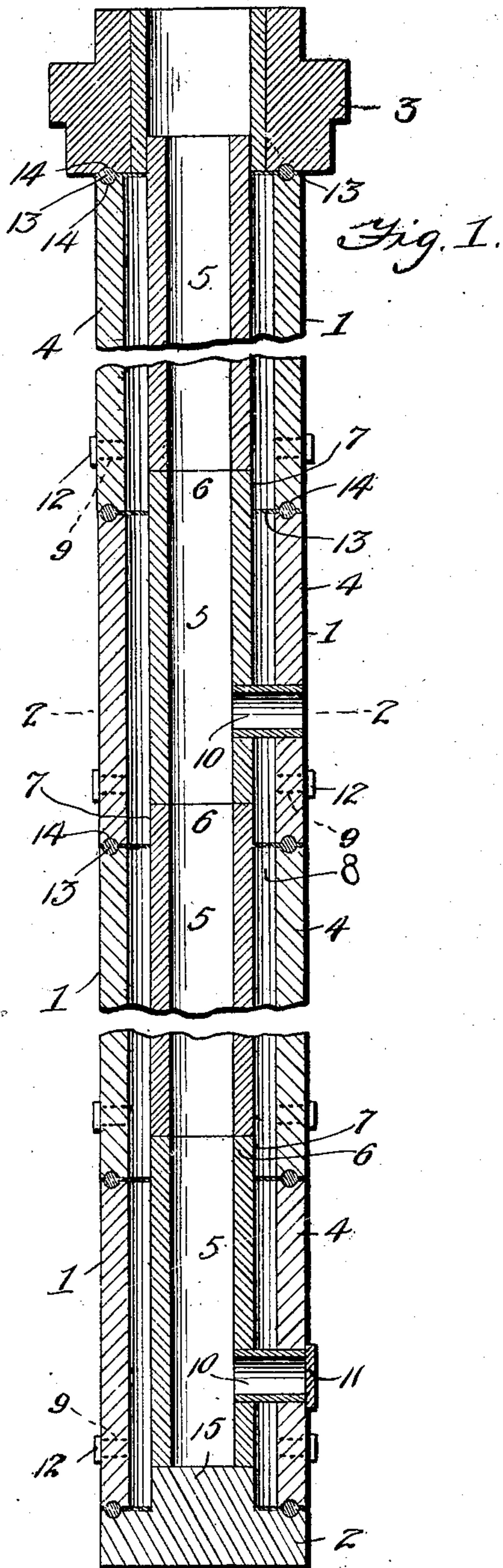


No. 861,481.

PATENTED JULY 30, 1907.

R. S. POSTON.
CHIMNEY.

APPLICATION FILED APR. 17, 1906.



Witnesses

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UNITED STATES PATENT OFFICE.

RICHARD S. POSTON, OF VILLISCA, IOWA.

CHIMNEY.

No. 861,481.

Specification of Letters Patent.

Patented July 30, 1907.

Application filed April 17, 1906. Serial No. 312,256.

To all whom it may concern:

Be it known that I, RICHARD S. POSTON, a citizen of the United States, residing at Villisca, in the county of Montgomery and State of Iowa, have invented certain

5 new and useful Improvements in Chimneys; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

10 My invention relates to improvements in chimneys, and more particularly to one made of concrete and lined with tile and having ventilating openings or passages in which heat conducting pipes may be provided.

The object of the invention is to provide a device of 15 this character which will be of simple, durable and comparatively inexpensive construction, and well adapted for the purpose intended.

With the above and other objects in view, the invention consists of certain novel features of construction, 20 combination and arrangement of parts hereinafter described and claimed.

In the accompanying drawings:—Figure 1 is a vertical sectional view through a chimney constructed in accordance with my invention; Fig. 2 is a horizontal 25 or transverse sectional view through the same, taken on the line 2—2, Fig. 1. Fig. 3 is a side elevation of one of the sections of the chimney, and Fig. 4 is top plan view of the same.

My improved chimney is composed of a plurality of 30 similar blocks or sections 1 secured upon each other, the lowermost one resting upon a base or foundation block 2, and the uppermost one having secured upon its upper end a top block or head 3. Each of the intermediate blocks 1, which may be of any length and 35 of any size and shape in cross section, is composed of a body 4 molded of concrete or other plastic material and having molded in its center a pipe or tile 5. The latter is approximately the same length as that of the concrete body 4, but has one of its ends 6 projecting beyond the end of the body 4, so that in the opposite end of the latter is provided a seat or socket 7 to receive the projecting end 6 on an abutting block or section. These 40 tile pipes or sections 5 may be of any desired form and construction, but, as shown, they are square in cross section and upon each of their outer faces are formed in the concrete block or section 4, longitudinally extending air passages 8 for the purpose of ventilating the chimney. These ventilating passages 8 in the different 45 blocks or sections aline with each other so as to form continuous vertical passages from the bottom to the top of the chimney. In one or more of the faces or walls of the blocks or sections 4 are provided transverse openings 9, which communicate with these passages and carry the foul or impure air out of the room or 55 rooms through which the chimney extends. In cer-

tain of the blocks or sections 4 are provided transverse pipes 10 of metal or tile, to receive the smoke pipes of stoves located in different rooms of the building and the smoke pipe of the furnace in the basement. These pipes 10 extend into the tile sections 5 and, if desired, 60 suitable closures 11 may be placed upon them when they are not used. Suitable dampers or closures 12 may also be provided for the ventilation openings or apertures 9.

The different sections of the chimney are secured 65 together by cement or the like 13 placed between their abutting ends, and to facilitate this connection and provide tight joints, I form in the opposing ends of the blocks or sections 4, surrounding grooves or channels 14, to receive such cement. The base block 2 is 70 provided with such groove, and upon its upper face is provided a projection 15 adapted to enter the socket 7 in the lower end of the lowermost block or section 4. The top block or head 3 has formed in its under face, one of said grooves, and is adapted to fit over the pro- 75 jecting end 6 of the tile section in one of the blocks 1, as clearly shown in Fig. 1 of the drawings. If desired, when the chimneys are made very large, I may provide in one or more of the ventilating passages 8, hot air pipes 16, for the purpose of conducting the hot air 80 from a furnace or other heater in the basement to the various rooms in the house or building. These pipes 16 may be of any desired form and construction, but they are preferably made in sections and removably mounted in said passages 8. 85

Instead of using a tile for the lining 5 of each of the chimney blocks or sections, I may use a metal pipe. This metal lining 5 may be made in any shape and of steel, iron or the like, and it is molded in the block 90 or section when the latter is made.

The construction, use and advantages of the invention will be readily understood from the foregoing description taken in connection with the accompanying drawings. By lining the concrete sections of the chimney with tiling, the concrete will be effectively 95 protected from the excessive heat, and fire-proof joints will be provided between the sections of the chimney, by reason of the overlapping or telescoping arrangement between the tile sections and concrete sections and the manner in which the parts are cemented to- 100 gether. These chimney sections can be produced at a comparatively small cost and kept in stock so that they may be quickly erected by unskilled workmen. They are exceedingly strong and durable and will stand years of use without attention or repairs, 105

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention, as defined by the appended claims. 110

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

5 A chimney comprising a base having its upper face provided with an upward projecting boss and a cement-receiving channel surrounding the same, a series of sections each having a quarterfoil ventilating passage and terminal cement-receiving channels that register when the sections are assembled, the ventilating passage of the lower section being engaged by the said boss, a rectangular flue within
10 the sections and having its corners intersecting the meeting points of the quarterfoil segments and forming thereby ventilating passages, certain of the sections having stove-

pipe openings communicating with the flue and others having ventilating openings communicating with the passages, and a cap fitted upon the upper end of the flue and having cement-receiving channels registering with those of the uppermost chimney section. 15

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

RICHARD S. POSTON.

Witnesses:

J. CLARK COOPER,
S. H. COLEMAN.