

52-204

DRAFTSMAN

No. 854,895.

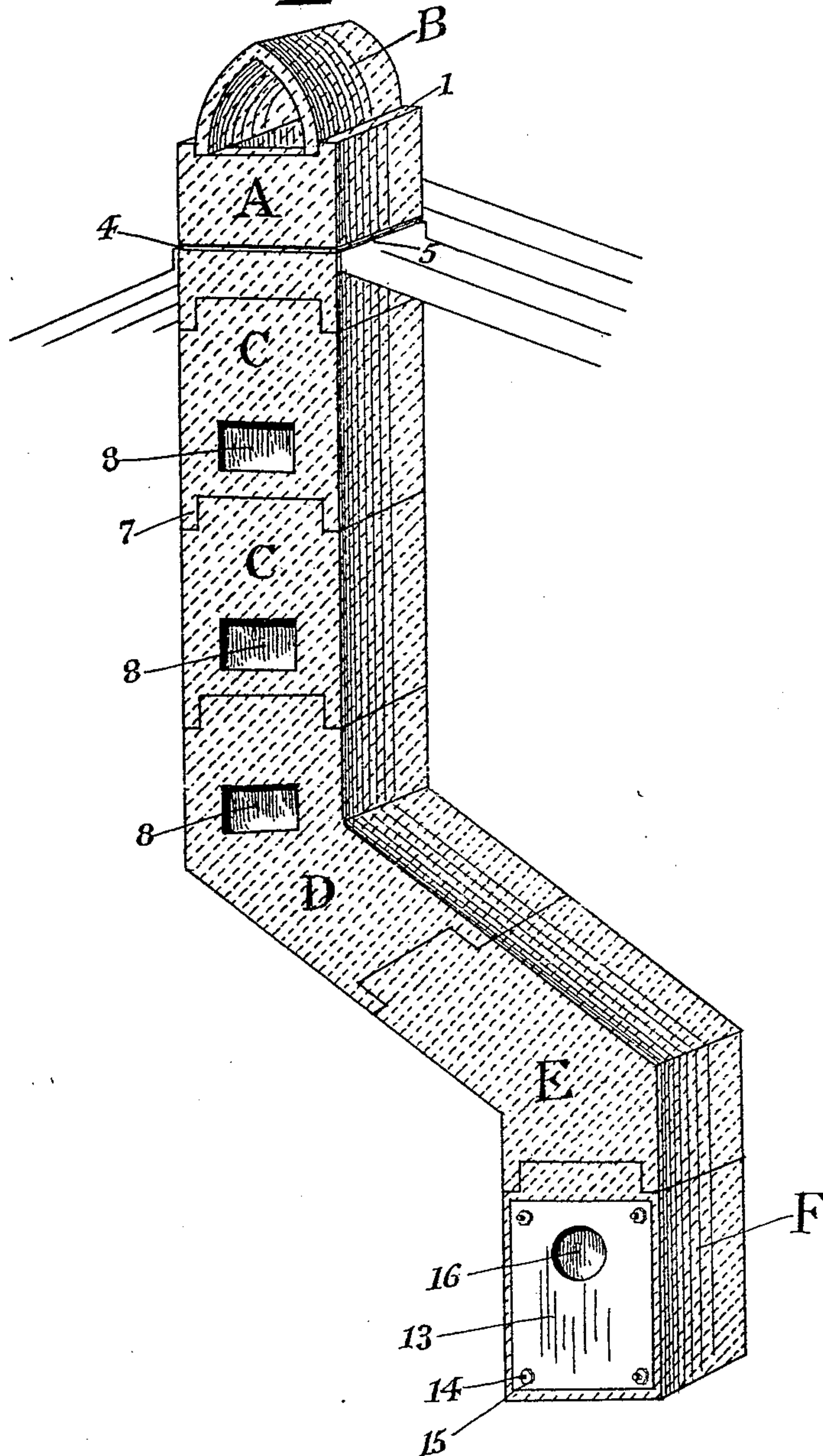
PATENTED MAY 28, 1907.

S. M. KEMP.
CHIMNEY.

APPLICATION FILED MAY 11, 1906.

2 SHEETS—SHEET 1.

Fig. 1.



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Witnesses

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2 SHEETS—SHEET 2.

Fig. 2.

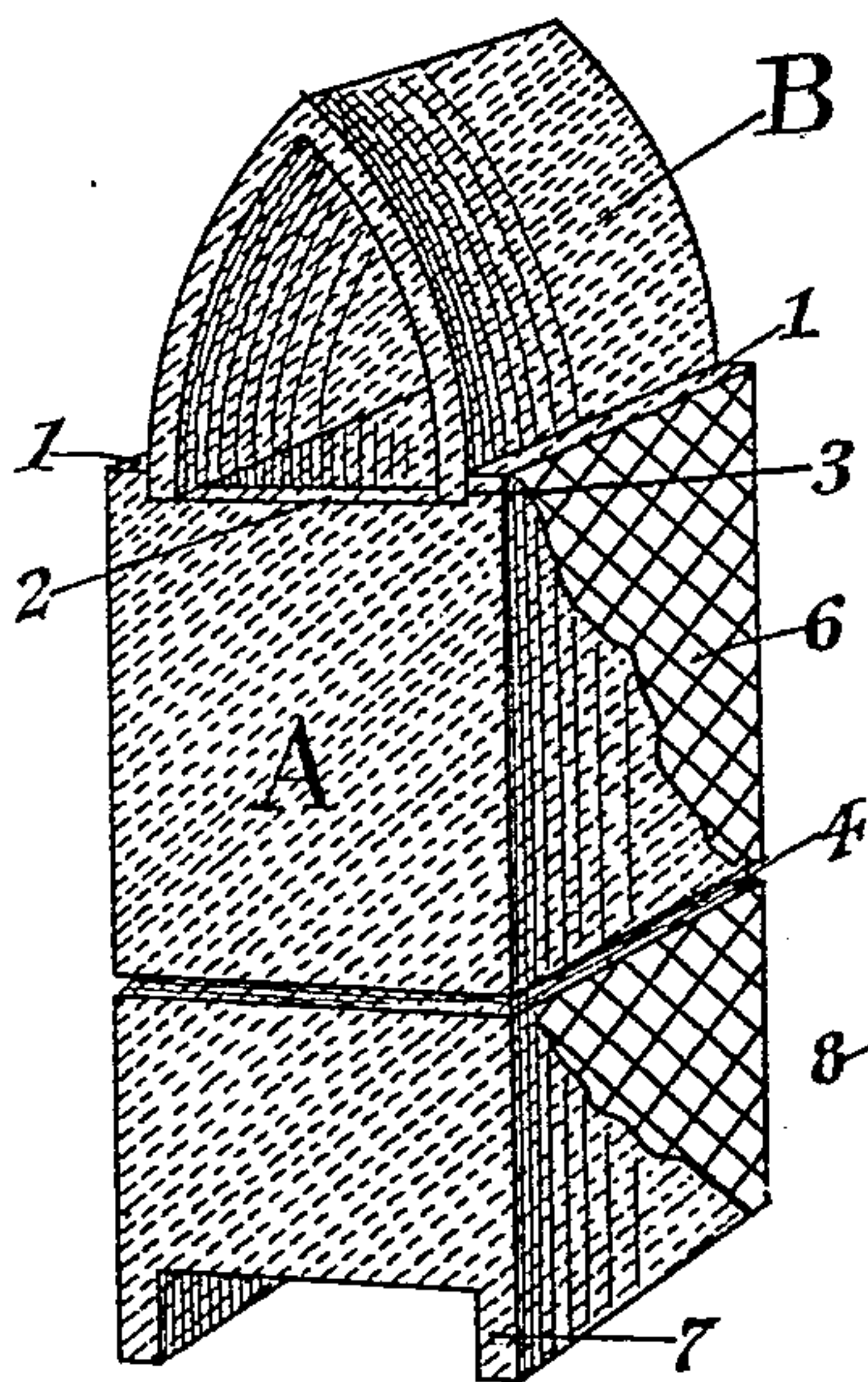


Fig. 3.

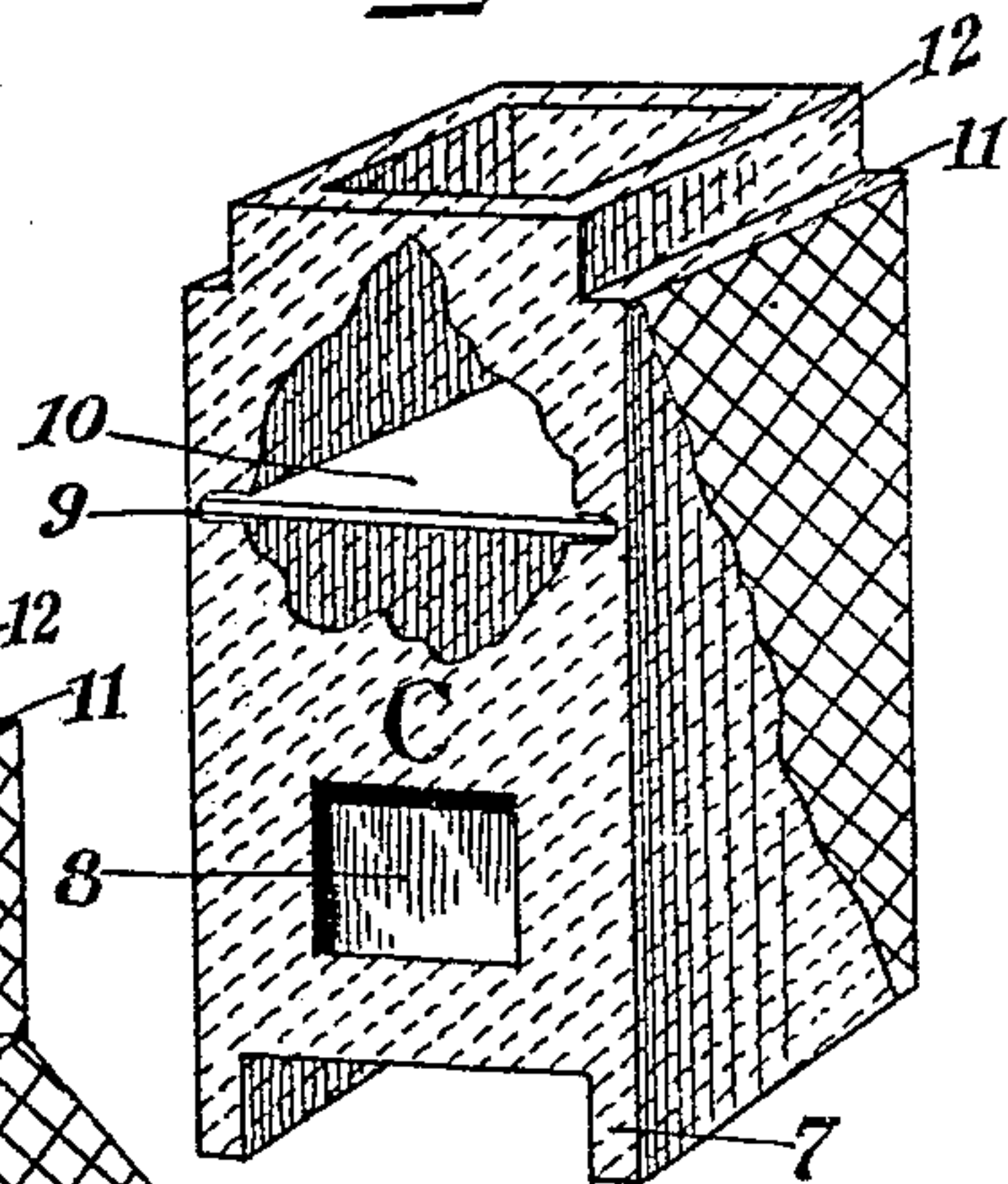


Fig. 4.

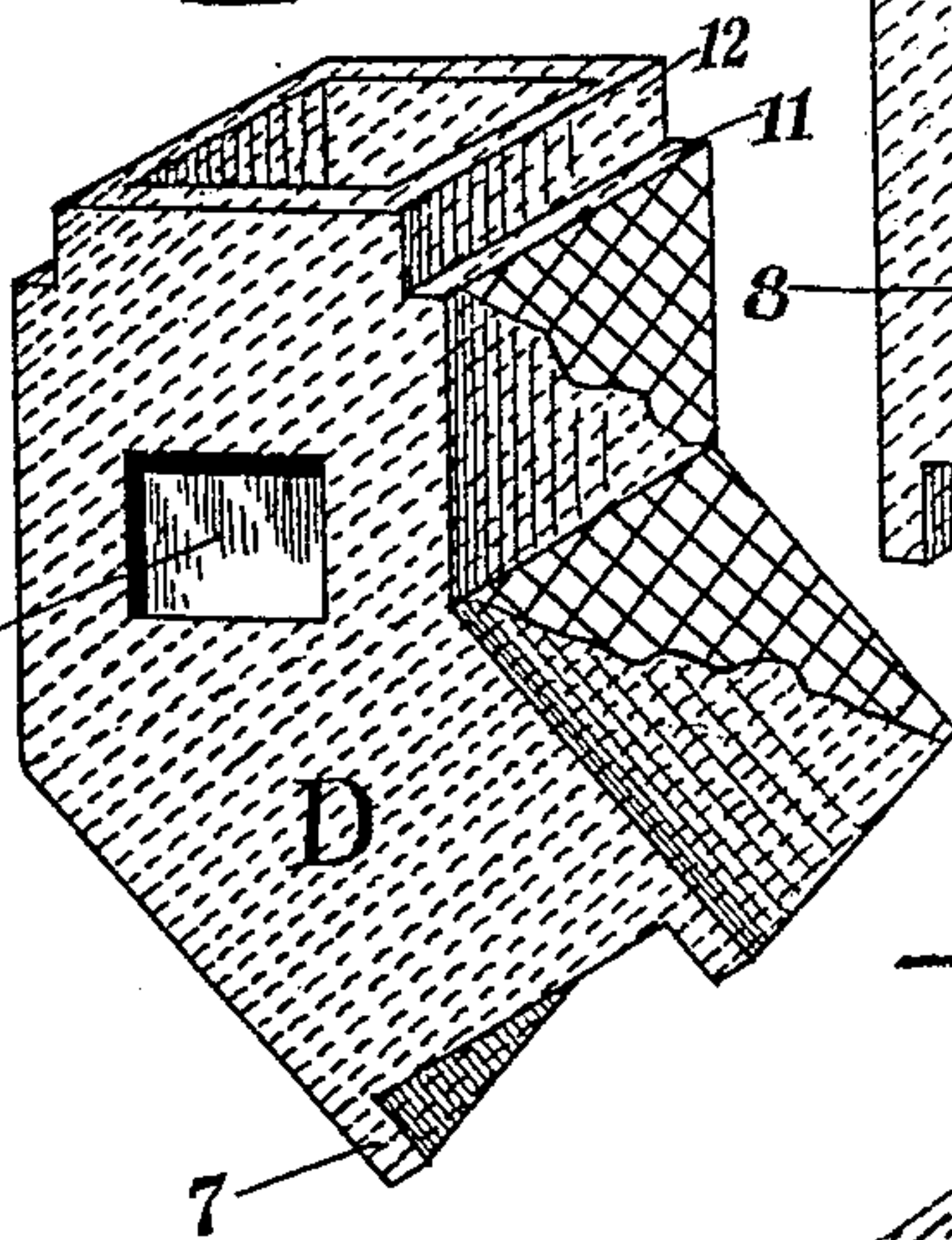


Fig. 5.

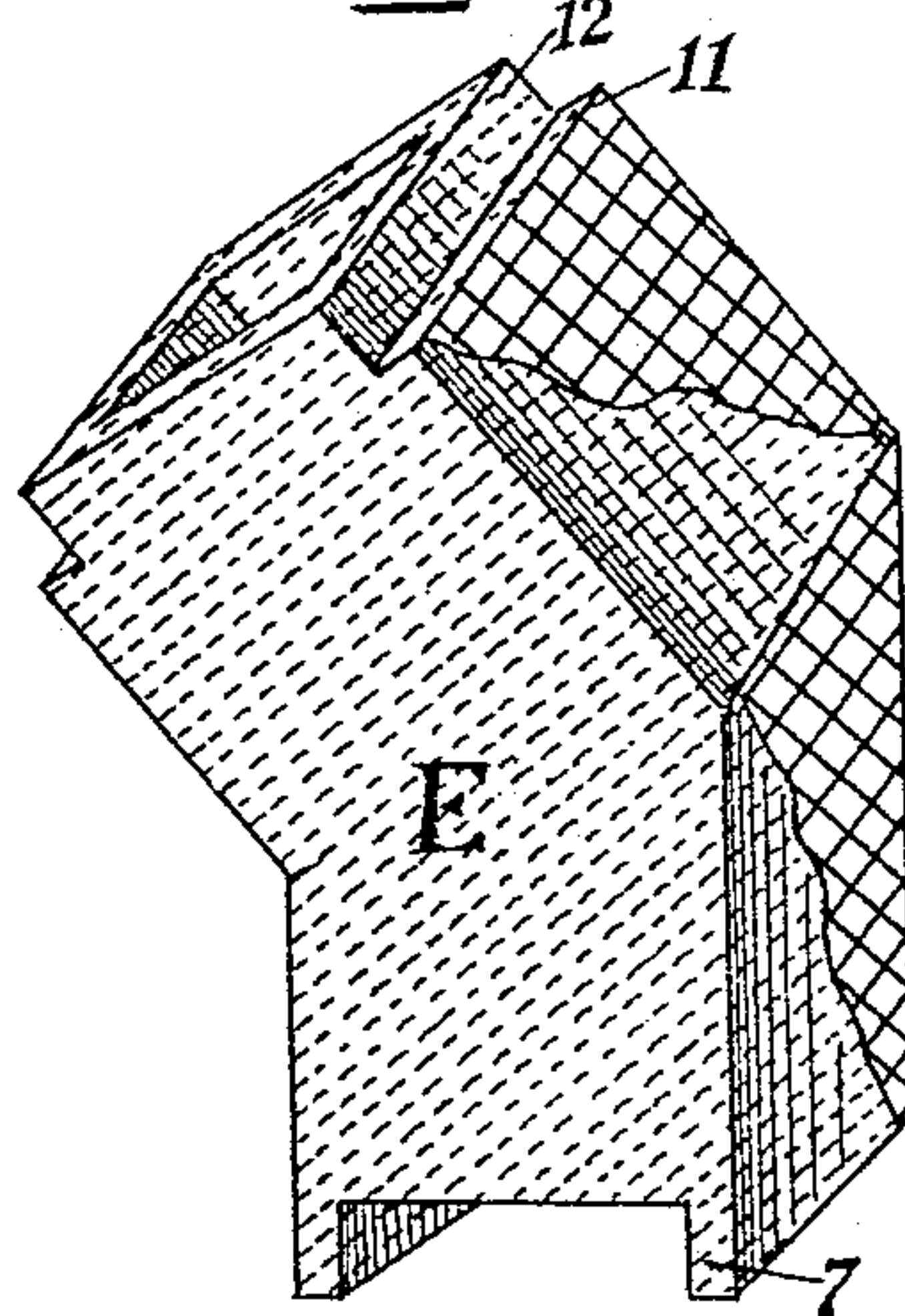
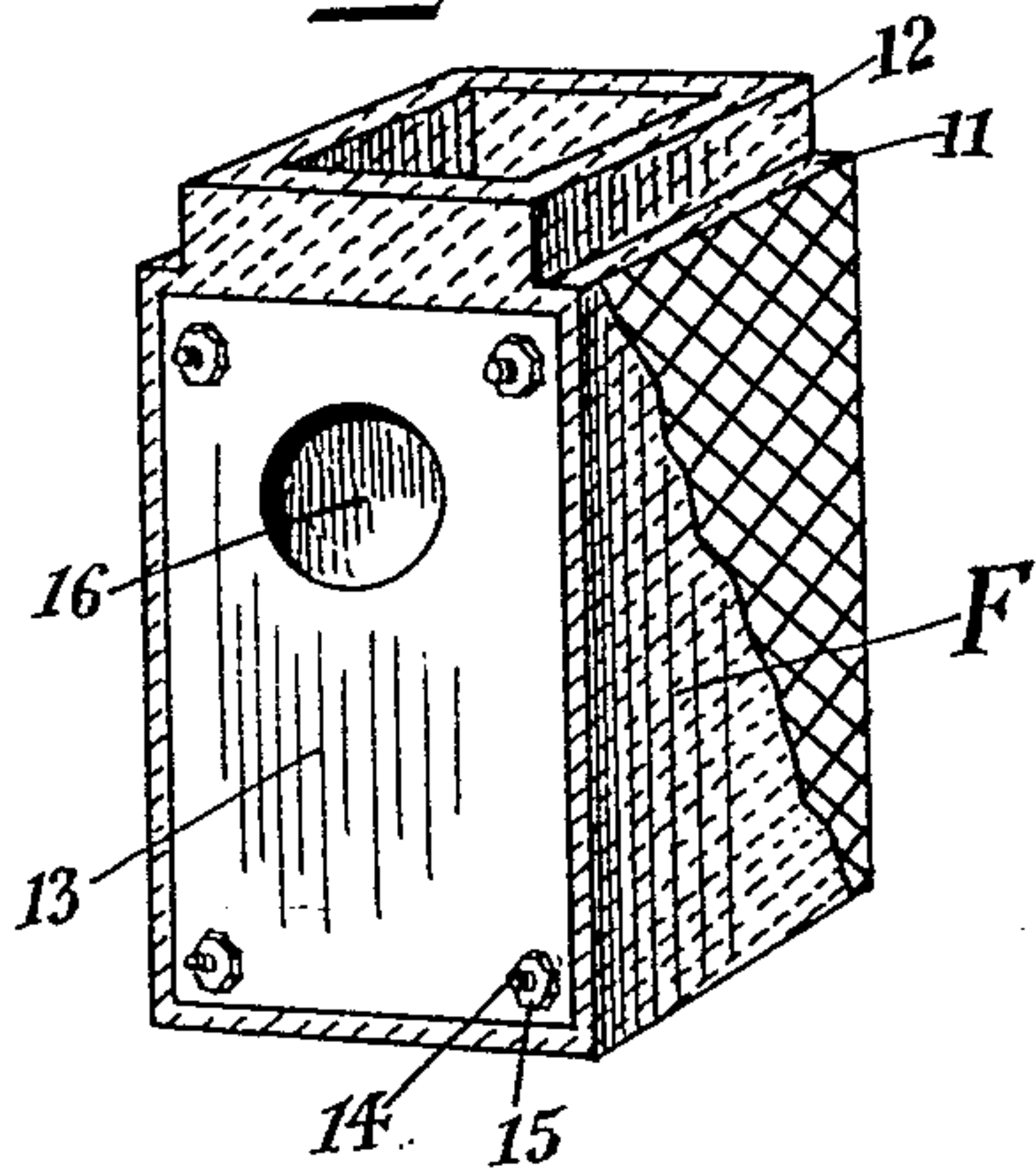


Fig. 6.



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UNITED STATES PATENT OFFICE.

SOLOMON M. KEMP, OF BALTIMORE, MARYLAND.

CHIMNEY.

No. 854,895.

Specification of Letters Patent.

Patented May 28, 1907.

Application filed May 11, 1906. Serial No. 316,398.

To all whom it may concern:

Be it known that I, SOLOMON M. KEMP, a citizen of the United States, residing at Baltimore city, State of Maryland, have invented certain new and useful Improvements in Chimneys, of which the following is a specification.

My invention relates to an improvement in chimneys, the object being to provide a cheap, durable and effective chimney, that can be quickly installed whenever it is found necessary to replace a chimney by way of repair, but, more especially to be used in the first construction where a chimney is necessitated or desired.

It is a well known fact that the decay of an ordinary chimney constructed of brick and mortar is to a great extent caused by the gases which necessarily pass through it, which destroy the mortar and cause the chimney to crumble and fall, necessitating the restoration of the chimney as originally built or to provide a substitute of some kind or description.

By the use of my invention in such cases a chimney can be substituted at a comparatively less cost and inconvenience. By the original adoption and construction of my chimney, it in all cases of original building, where chimneys are used, will result in a saving of cost effected by the durability thereof over and above that of an ordinary chimney composed of brick and mortar. Being composed of concrete, or other suitable material the chimney is not affected by the gases which pass through it, and the reinforcement (woven wire) used in the construction thereof, being molded within it, prevents it from crumbling and falling.

It also consists in certain other new and novel features of construction and combinations of parts, which will be hereinafter described and pointed out in the claims.

In the accompanying drawings Figure 1 is a perspective view of my invention. Figs. 2, 3, 4, 5 and 6 are perspective views of different parts or blocks of the chimney with parts broken away to show the wire reinforcement and flue board.

In Fig. 2, A is a top section constructed of concrete or other suitable material. 1—1 are extensions of two side walls of the top section into which the chimney cap or top B is fitted, the lower edge ends of the cap resting on the top of the walls 2 at 3; 4 is a groove

into which the flashing of the roof 5 is secured; 6 represents the reinforcement (woven wire) molded within the concrete. The several sections forming the chimney have the side walls 2 cut away at their lower end portions thereby allowing the lower ends of the walls 1—1 to extend beyond the lower ends of the walls 2 so as to form an extension or tenon 7.

In Fig. 3, C is an intermediate section, provided with an opening 8, for the purpose of having a register fitted therein, 9 is a groove within the interior into which is adapted to be secured the flue board 10, the side walls 1 are cut away near the top end portion so as to form a shoulder 11, the extensions 12 forming a mortise joint, adapted to be fitted to the tenon or extension 7 as shown in Fig. 2, and is likewise provided with a similar tenon or extension 7 on its lower end portion as are all other sections, except the bottom or ground section F as shown in Fig. 6. Likewise are all the other sections constructed so as to be provided with the shoulder 11, and the extension 12 forming a mortise joint, as shown in Fig. 3 for the purpose of engaging with the tenon or extension 7 of the adjacent section.

In Fig. 4, D, is an elbow section provided with a similar opening therein as shown in Fig. 3 for the purpose of having a register fitted therein, which we will also designate 8. This elbow is molded to form an angle of any number of degrees as is the section E, that they may meet and the extension or tenon 7 on that of section D, may be engaged by the extension 12 and shoulder 11, forming a mortise joint of section E. These forms of angle sections are for the purpose of extending and continuing the chimney from a given point to another point, where other connection with heating apparatus may be desired, or for the purpose of distributing heat to other parts of the building, thus providing against the necessity of an additional chimney. F is the bottom section, and 13 is a door which is removably secured to the section by means of the bolts 14 (which are molded within the side walls 1) and the nuts 15, said door having the requisite number of holes molded or drilled therein at the proper locations to allow the bolts to extend therethrough that it may be secured in the manner as above stated. 16 is an opening in the door through which the

smoke pipe (not shown) may be inserted. The door is made removable to facilitate the cleaning of the chimney or the repairing or restoring the smoke pipe when necessary. In

5 installing my chimney, section F being the lower or bottom section, is placed in position and around the mortise joint formed by the extension 12 and shoulder 11 is spread a thin layer of concrete, the next section provided
10 with tenon or extension 7 is then fitted upon the top thereof and in like manner the succeeding sections either straight sections or those of elbow formation, as may be desired are fitted together in a similar manner and
15 by similar means. When the concrete dries and hardens, the chimney becomes solidly secured together as if composed of one continuous section of concrete.

While I have shown the lower end portion of the several sections, cut away so as
20 to form the tenon or projection 7 on but two sides, and likewise the upper end portions cut away on but two sides so as to form the shoulder 11 and the extension 12, forming
25 a mortise joint, yet it is very apparent that the upper ends of the several sections might be cut away on all four sides to the extent of one-half the thickness thereof, that the extension 12 as shown might extend around
30 all four sides thereof and likewise the inner lower end portions might be cut away one half the thickness thereof on all four sides thereof, instead of as in the manner as shown and the same result will be had, hence I do
35 not desire to limit myself to the exact construction as herein set forth, as I am aware that slight changes might be resorted to in the form and arrangement of the several

parts without departing from the spirit and scope of my invention. 40

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

1. The combination of a chimney cap and a chimney substantially as hereinbefore described, comprising a section made of concrete, of a woven wire reinforcement molded within the walls thereof, of extensions or
45 tenons on the lower end portion, of similar extensions on the opposite end or upper portion thereof, the upper extensions affording
50 a means for securing the cap on the section for the purpose as herein set forth.

2. The combination of a chimney substantially as hereinbefore described, comprising
55 a base or lower section made of concrete and provided with woven wire molded within the walls thereof, and an extension and shoulder forming a mortise joint on the top end portion, of a series of metal bolts secured within the edges of the parallel side
60 walls and threaded on the extended end portions thereof, and a door provided with an opening therein and means within the door for allowing the extended end portions of the
65 bolts to pass therethrough whereby by the means of a series of nuts the door is removably secured to the said base or section for the purpose as herein set forth.

In testimony whereof I affix my signature 70 in presence of two witnesses.

SOLOMON M. KEMP.

Witnesses:

E. WALTON BREWINGTON,
MARY M. MAGRAW.