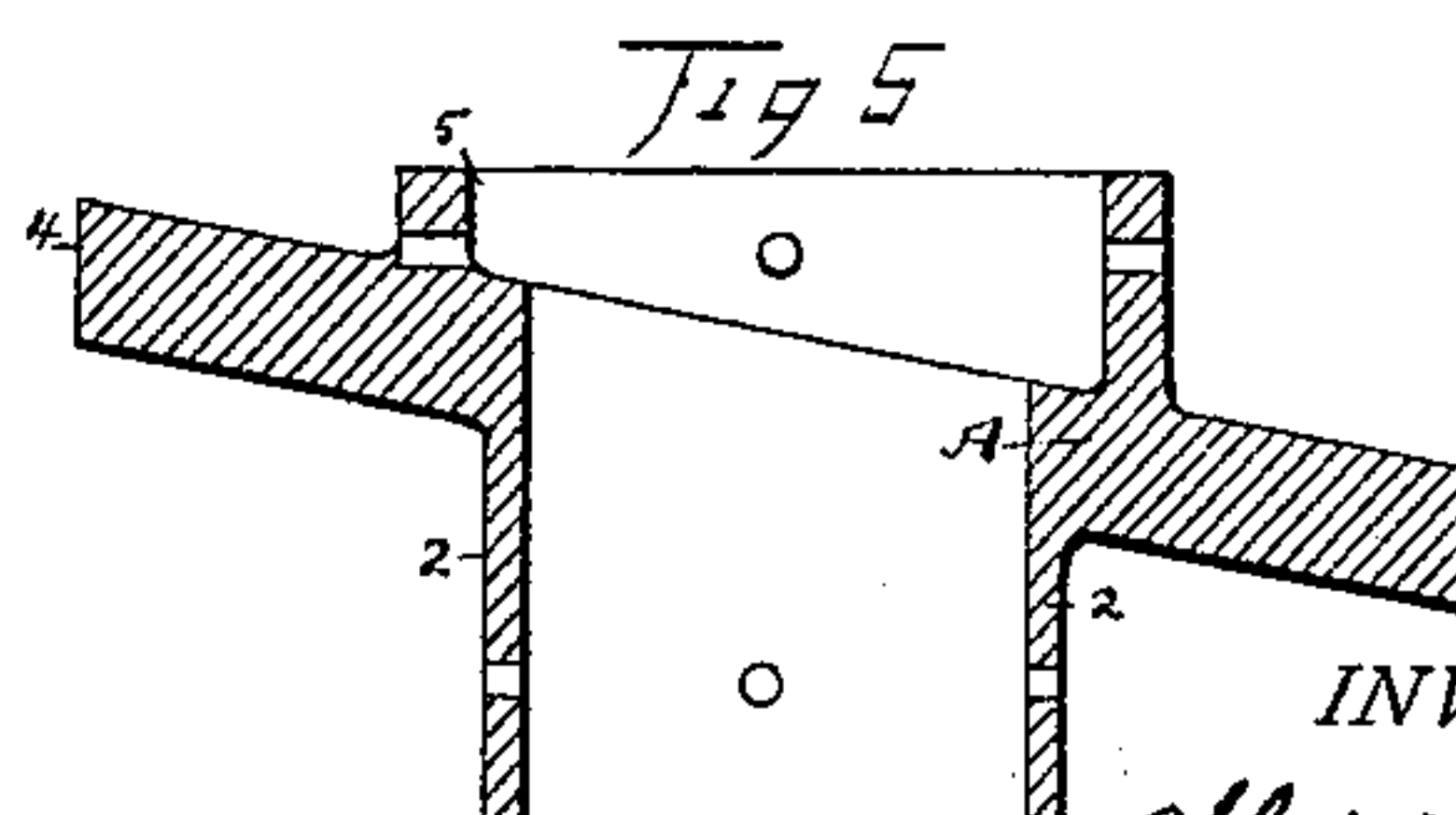
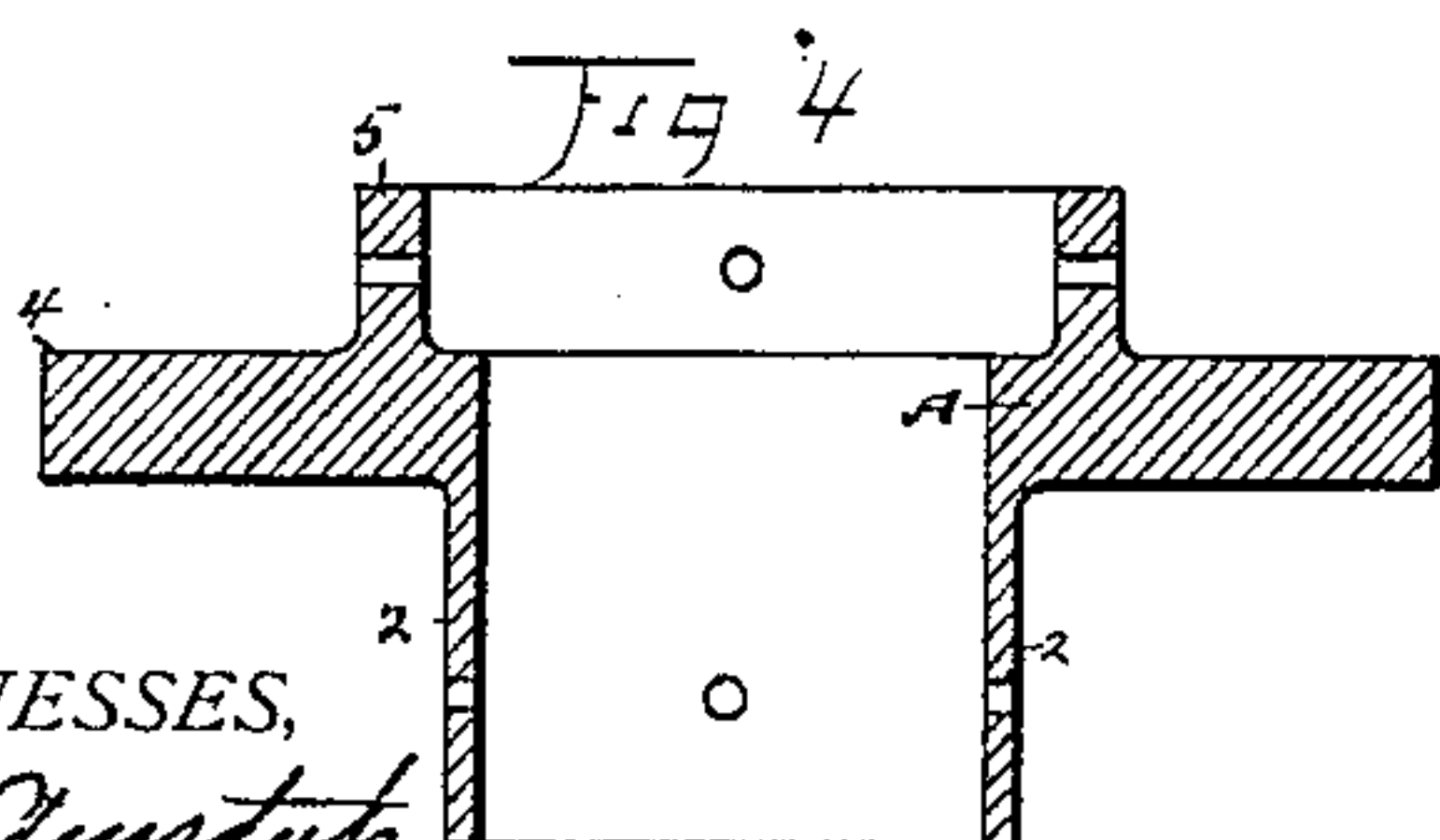
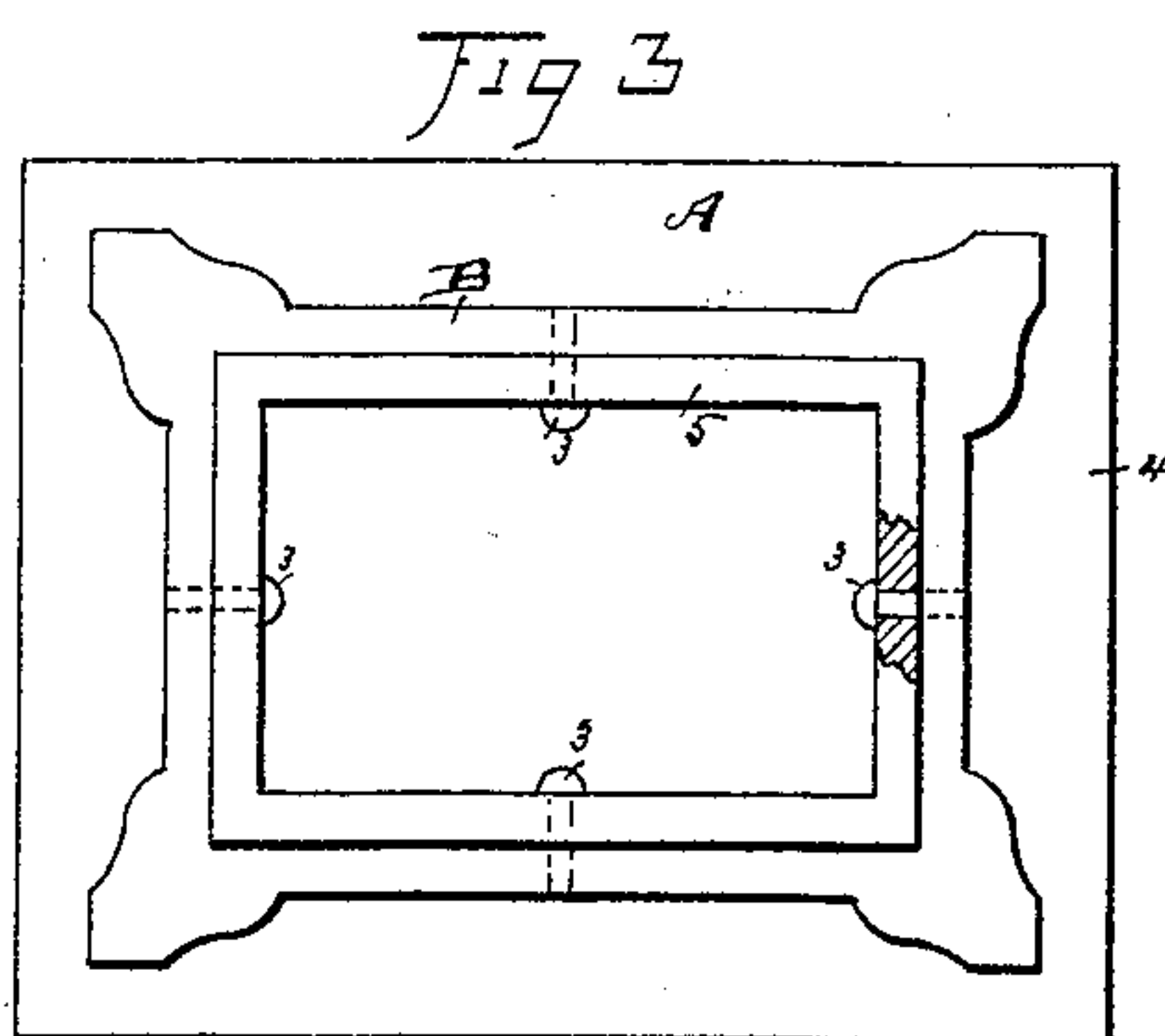
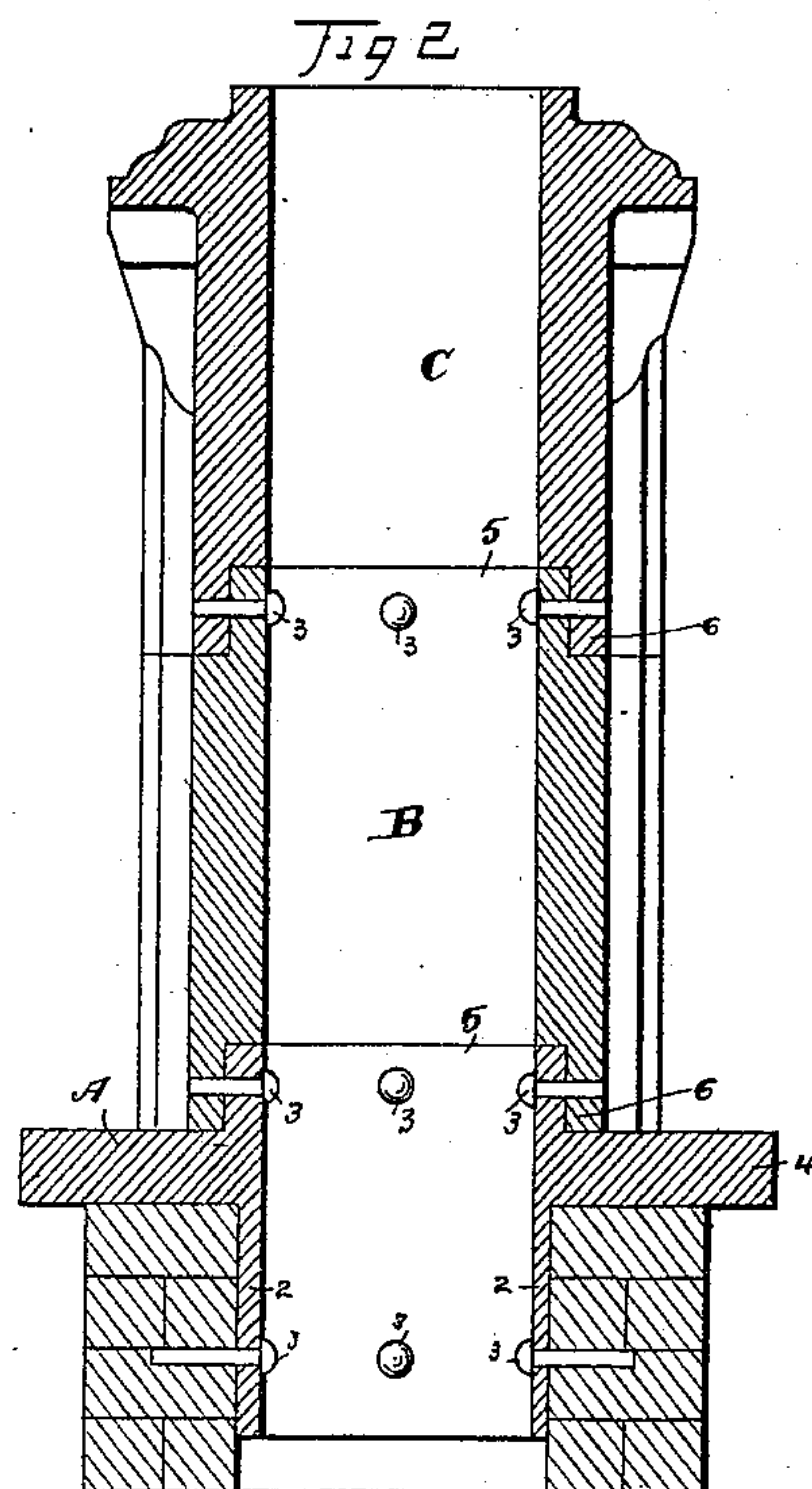
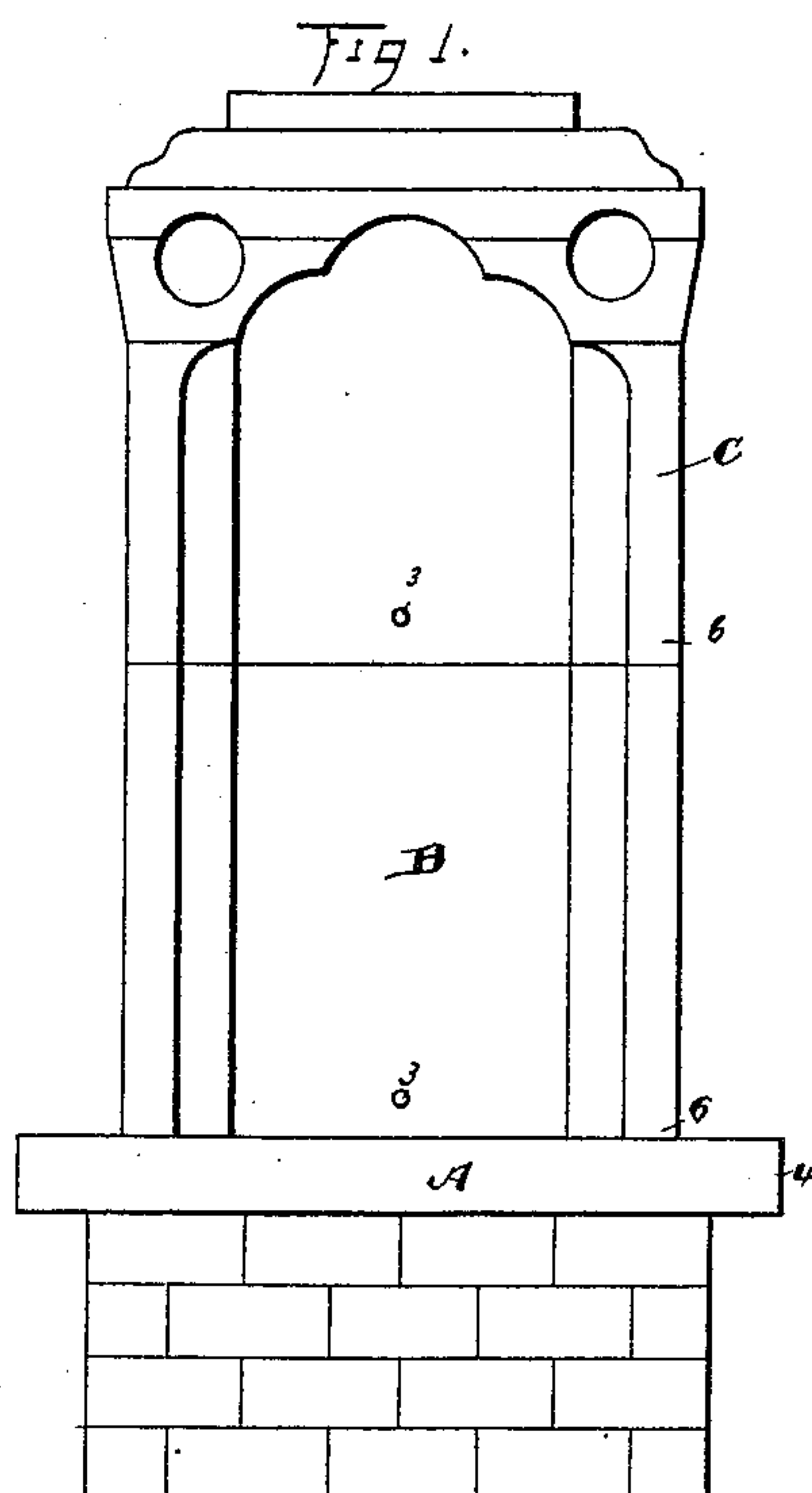


(No Model.)

A. H. RISTEDT.
CHIMNEY.

No. 441,506.

Patented Nov. 25, 1890.



WITNESSES,
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UNITED STATES PATENT OFFICE.

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CHIMNEY.

SPECIFICATION forming part of Letters Patent No. 441,506, dated November 25, 1890.

Application filed September 13, 1889. Serial No. 323,861. (No model.)

To all whom it may concern:

Be it known that I, ALBERT H. RISTEDT, a citizen of the United States, residing at Niles, in the county of Trumbull and State of Ohio, have invented certain new and useful Improvements in Chimneys; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in chimneys; and the invention consists in sections of molded material forming, preferably, the top or shaft of the chimney, all as shown and described, and particularly pointed out in the claim.

In the accompanying drawings, Figure 1 is a side elevation of a chimney built on my improved plan. Fig. 2 is a vertical central section thereof. Fig. 3 is a plan view, and Fig. 4 is a section, of the molded collar and joint by which connection is made between the brick portion of the chimney and the molded sections above. Fig. 5 is a modification of the collar suited to slanting roofs.

I am of course aware that broadly it is not new to employ a tile extension for a chimney, as in cases where the chimney is not high enough above the roof to insure a good draft, the practice in such cases being to place a tile-section on the chimney-top; but I am not aware that a chimney ever before has been built on the plan embodied in my invention.

Ordinarily in the construction of chimneys as practiced under my invention the chimney is built of brick in the usual way till it reaches the roof, and at this point I take the chimney and build it up to form the stack, after the manner substantially as shown in the drawings; but of course the entire length of chimney from the fire-place up might be constructed in the same way.

As hereshown, I begin my improved structure with a collar-section A, preferably made of tile, though any other non-combustible material may be employed. This section is molded into the desired form, and at its bottom has an extension 2, which projects into the chimney, as shown in Fig. 2, and is fastened by bolts or pins 3, so that it cannot be

blown over or forcibly lifted off without tearing loose from its fastenings. A flange or apron 4 extends laterally all around and forms the collar proper for preventing leakage about the base of the stack, where connection is made with the roof. This collar will be molded to adapt it to the inclination or lay of the roof, and two examples of form are shown in the drawings. Others may be made having different angles of the flange according to the demands. The flange itself may be treated, coated, or painted, so as to shed water, or it may be used as a base to build upon for the same purpose. Above the flange is a neck 5, which joins with the tile-section B next above. This section is formed with a recess or rabbet on its inner side about half its thickness in depth and equal in all respects to the neck 5, and has an extension 6 outside the recess, so that when the two sections are united the outer one sets over the inner one and forms an even lap-joint on both sides. This is shown higher up in Fig. 2, where the construction of the sections is more clearly illustrated. Thus section B has a corresponding neck 5 to pass inside the superposed section C, while its lower end comes outside the neck 5. Each additional section is the counterpart of the other in these particulars, however high the chimney may be built with them. By bringing the lap on the outside the joint is made to shed water, and by equally dividing the material between the two sections at the joints strength of material is obtained, which, with the locking pins or bolts 3, by which they are united, answers to lock the sections firmly together and to prevent their displacement under ordinary circumstances or exposure.

Apart from the considerations of convenience, economy, and durability, for which chimneys constructed according to my invention are conspicuous, the use of molded material in the shape of tile affords opportunity for the display of artistic taste in styles and finish as make the chimney an ornamentation to a house.

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

A chimney-top consisting of a collar adapted to rest on the top of the chimney and provided with a flat flange 4, extending laterally on all sides beyond the sides of the chimney
5 to form a close joint with the roof of the building, a long neck 2, extending within the chimney and fastened thereto, a short neck 5, extending above the chimney, and a chimney-stack above said collar and resting there-

on outside the said neck 5 and secured thereto, so substantially as described.

In testimony whereof I hereunto set my hand this 2d day of September, 1889.

ALBERT H. RISTEDT.

Witnesses:

D. J. FINNEY,
PETER SELFRIDGE.