

No. 857,255.

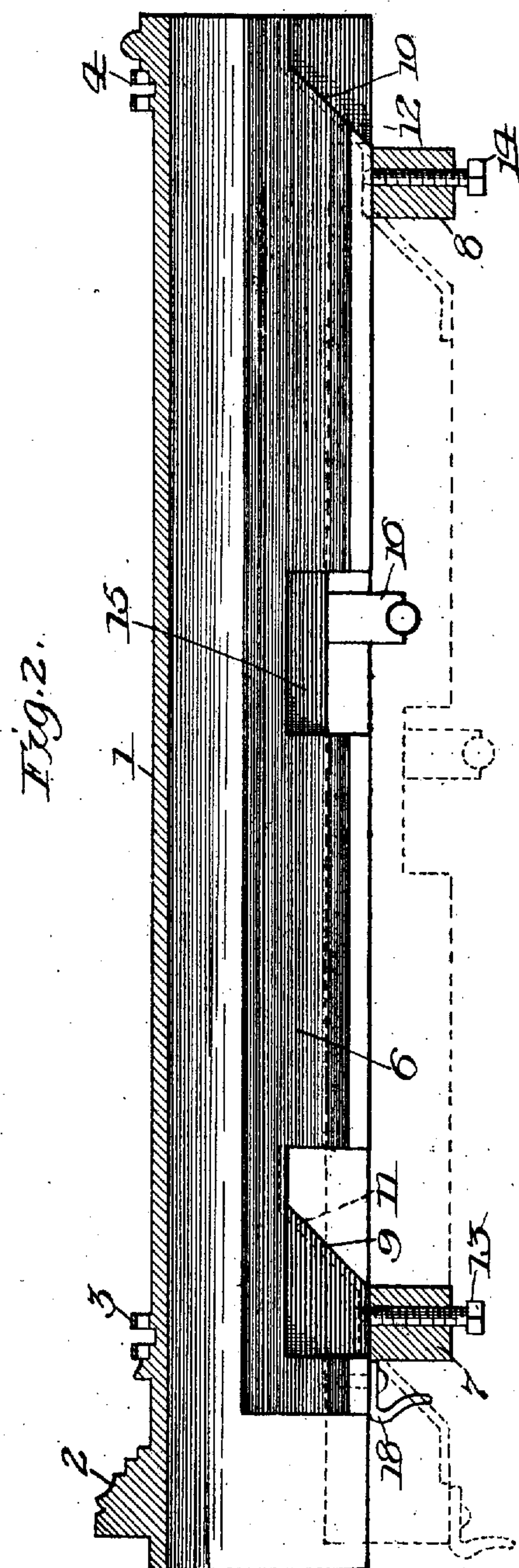
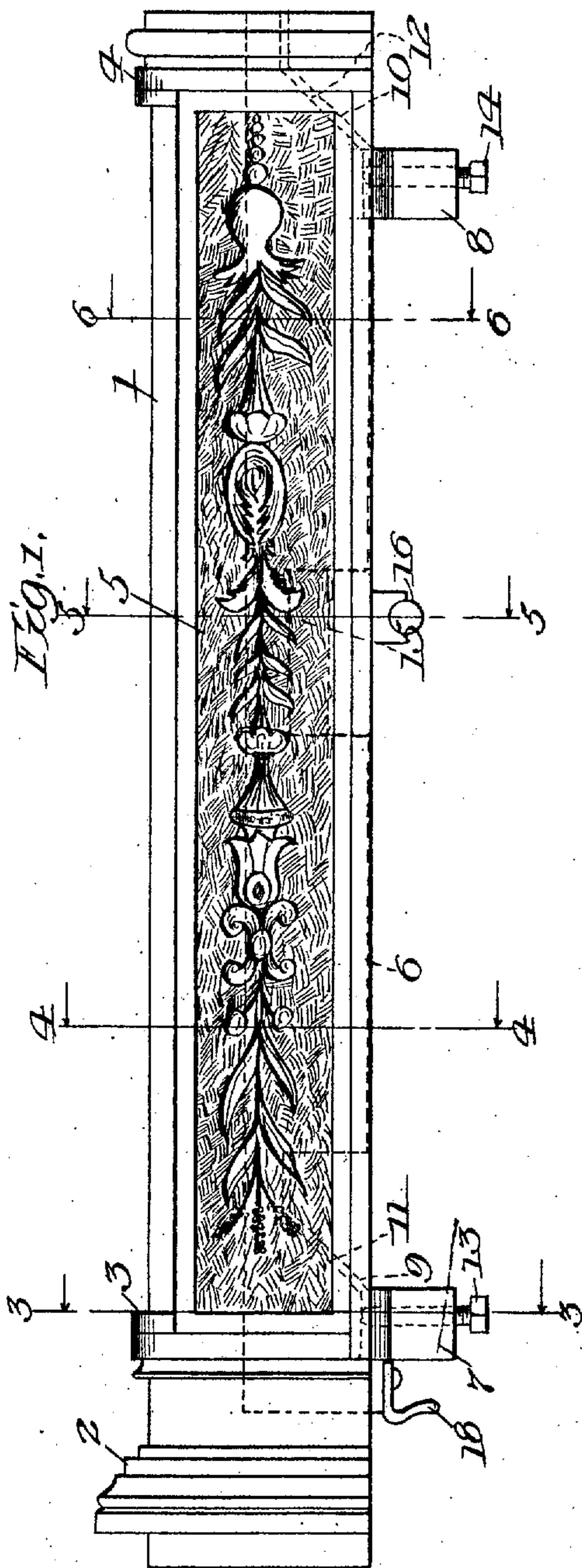
PATENTED JUNE 18, 1907.

K. NELSON.

PATTERN FOR ORNAMENTAL POSTS.

APPLICATION FILED FEB. 4, 1907.

2 SHEETS—SHEET 1.



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2 SHEETS—SHEET 2.

Fig. 3.

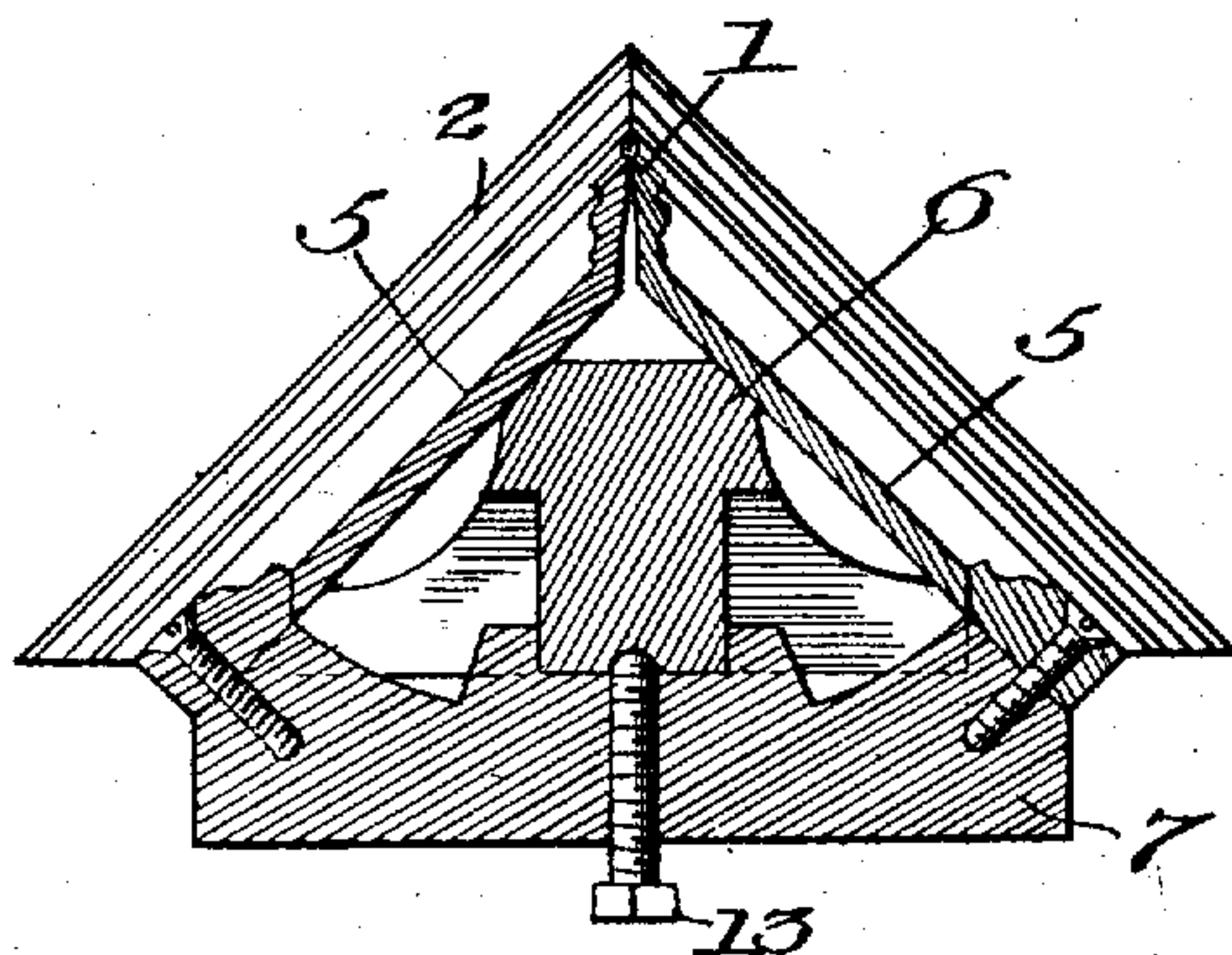


Fig. 4.

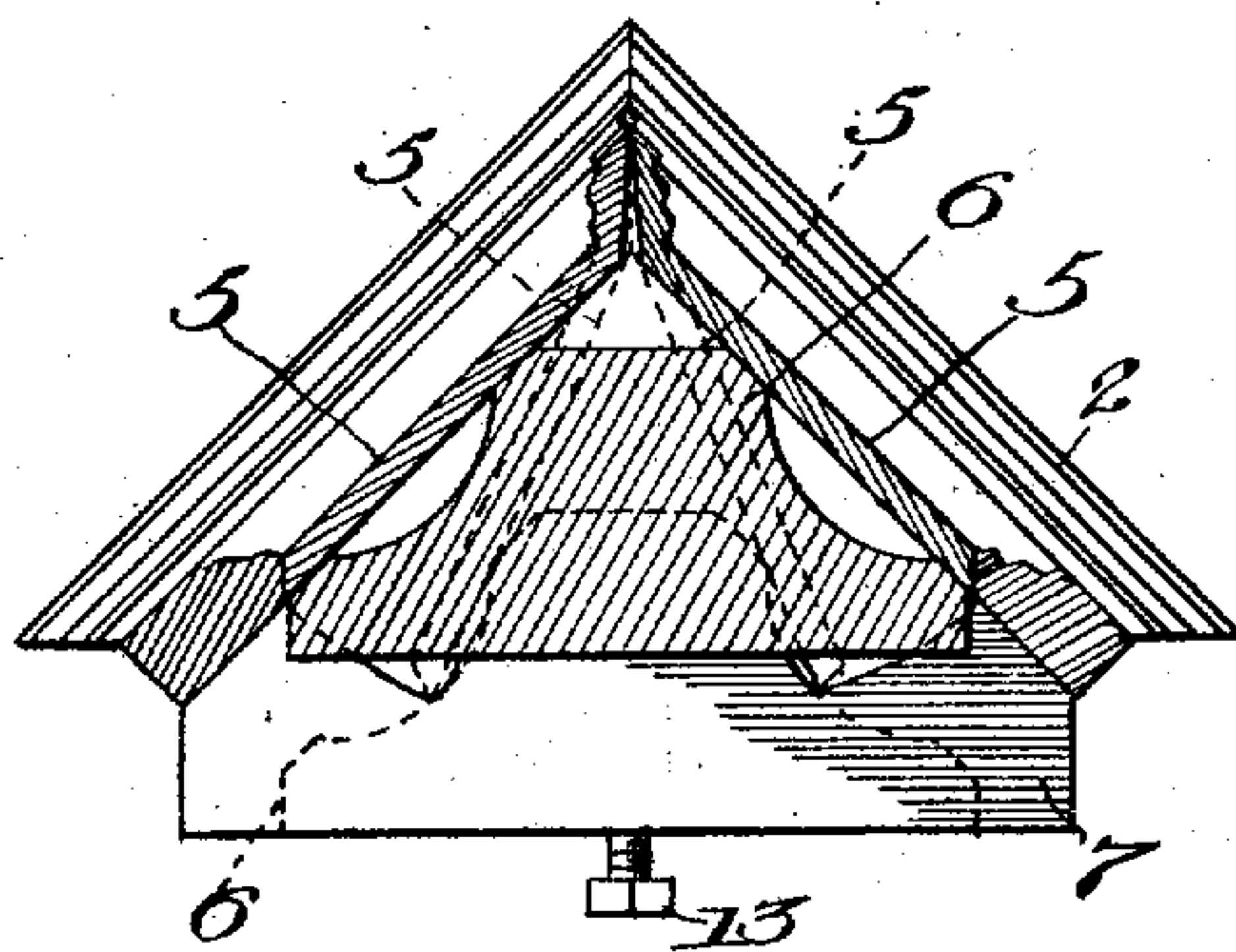


Fig. 5.

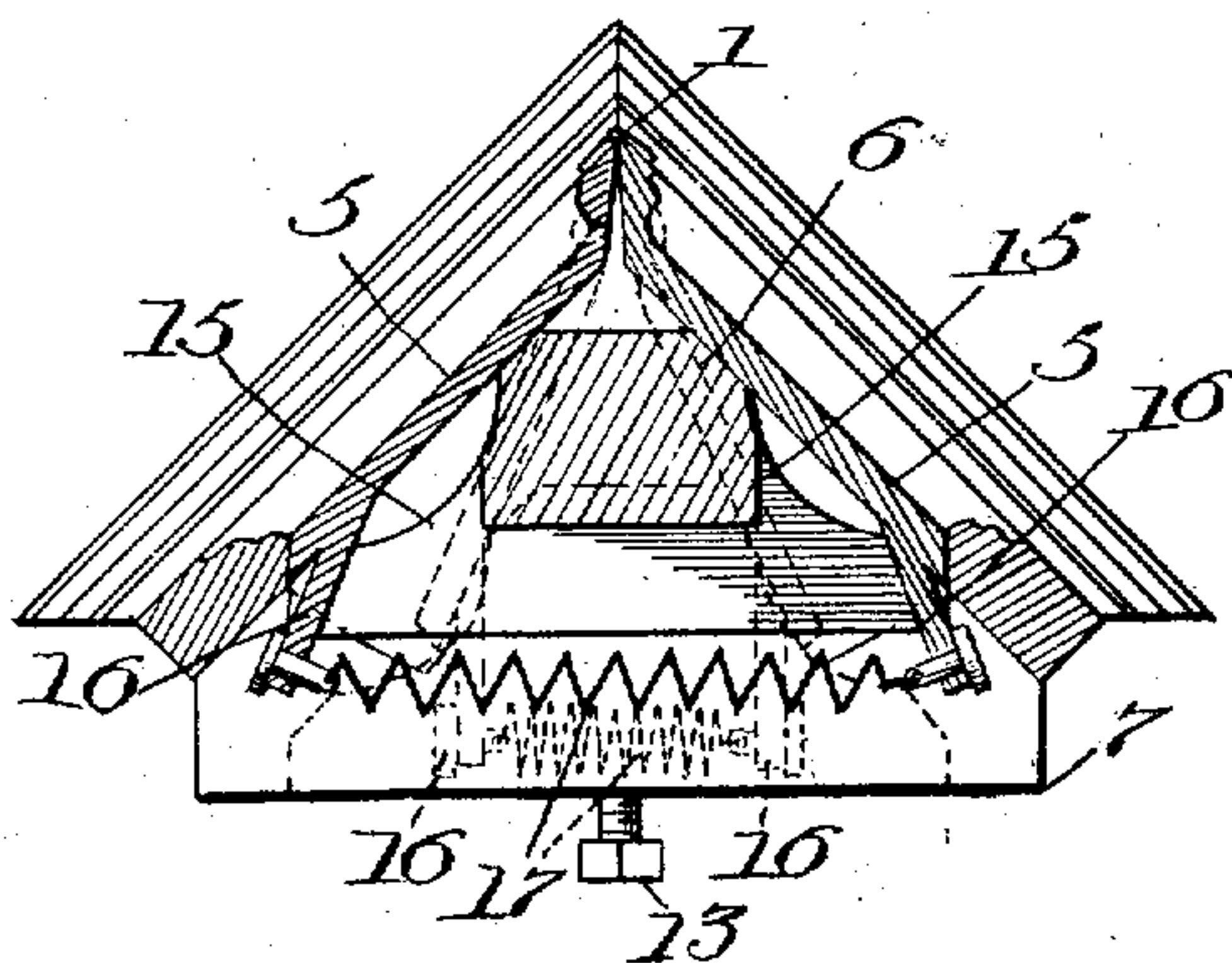
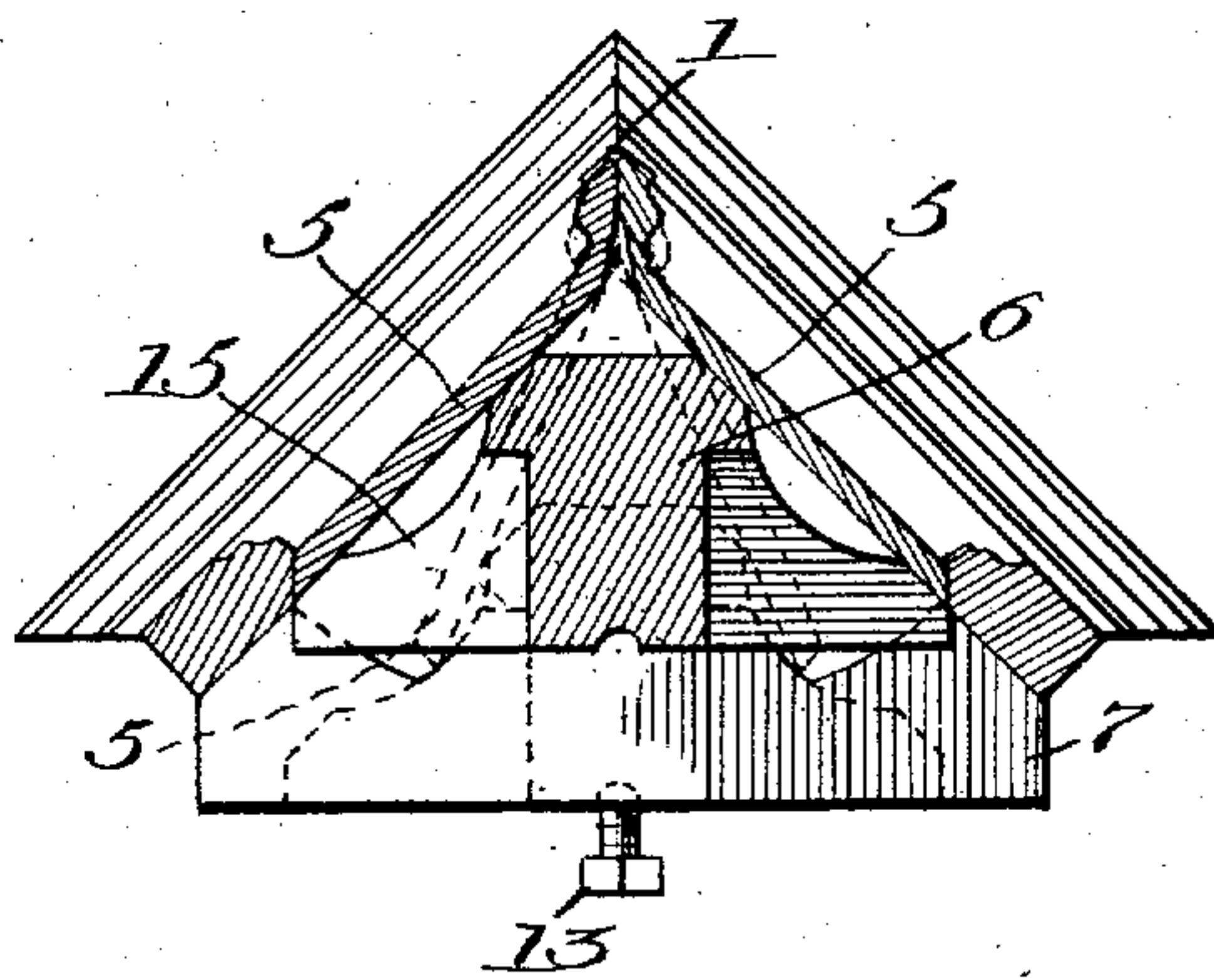


Fig. 6.



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# UNITED STATES PATENT OFFICE.

KNUTE NELSON, OF CHICAGO, ILLINOIS.

## PATTERN FOR ORNAMENTAL POSTS.

No. 857,255.

Specification of Letters Patent.

Patented June 18, 1907.

Application filed February 4, 1907. Serial No. 355,548.

*To all whom it may concern:*

Be it known that I, KNUTE NELSON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Patterns for Ornamental Posts, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to patterns for making molds for casting ornamental posts,—that is to say, posts whose sides are provided with ornamental designs.

The object of the invention is to provide a simple, practical and effective construction of pattern which will allow easy and ready removal from the mold without injuring the mold or pattern, especially the mold.

In accordance with my invention I provide a post pattern in which the ornamental sides are made movable so as to permit their being moved inwardly relatively to the frame of the post when desired, when the pattern is still in the mold. In this way the mold is made as usual and then the sides are moved inwardly so as to withdraw them slightly from the sand and then the pattern is removed as usual. As a result the preliminary removal of the ornamentation on the sides of the post pattern insures the removal of the ornamentations without interfering with the mold therefor, thus permitting the removal of the entire pattern with safety.

As a convenient arrangement for providing inwardly movable or depressible sides, I hinge the same and provide a slide with inclined plane arrangement by which the sides can be moved in and out at will by manipulating the slide which in turn is constructed and provided with means by which it can be operated with the pattern in position in the mold.

In the accompanying drawings, Figure 1 is an elevation of a post pattern embodying my invention; Fig. 2 is a longitudinal section of the same; Figs. 3, 4, 5 and 6 are cross-sectional views on lines 3—3, 4—4, 5—5 and 6—6 in Fig. 1.

In the arrangement shown, the pattern comprises a suitable frame or casing 1 in the form of half of a square post cut along a plane passing through the post in a longitudinal direction on a diagonal of the cross section. This casing or frame is provided with beads

2, 3 and 4 as desired, making the bottom and top projections of the post. The sides 5, 5 are provided with ornamental work which appears on the sides of the finished post when cast. These sides are hinged at their adjacent edges as shown in Figs. 3 to 6 inclusive, so that they can swing from their normal position inwardly into the interior of the pattern, as shown in said figures.

As an arrangement for swinging these hinged sides, I have shown a longitudinally disposed slide 6 which is arranged to slide lengthwise of the post, and to such end is mounted upon cross pieces 7 and 8 (Figs. 3 and 6), said cross pieces or bridges being secured to the pattern near its opposite ends. The slide 6 is provided with two inclines 9 and 10 which are adapted to operate in conjunction with the cross pieces or bridges 7 and 8, so that when the slide is moved lengthwise, it will be raised or lowered by reason of the inclines 9 and 10. When moved in a direction to the left, referring to Fig. 2, the slide will be lowered to the position shown in dotted lines in said figure. The inclines 9 and 10 are desirably provided with grooves 11 and 12 in which the slide 6 works (Fig. 3) and the bridges 7 and 8 are provided with adjustable screws 13 and 14, so that the slide 6 can be forced tightly against the sides 5, 5 to place and hold the latter firmly in position.

The slide 6 is narrowed at its ends, as shown in Fig. 3, and the bridges 7 and 8 provided with grooves or channels in which the narrowed portions of the slide 6 can travel to serve as guideways therefor. Between its ends the slide 6 is wider as shown in Figs. 4 and 5, and at a point nearly midway between its ends its sides are flattened at 15, 15, and at these points the sides 5, 5 are provided with projecting extensions 16, 16 between which is disposed a coil spring 17 which tends to pull said sides toward one another. At one end of the slide 6 is a handle 18 by which the slide can be engaged by the hand to move it back and forth.

In operating the device, the pattern is arranged in the condition shown in full lines in the drawings. The slide 6 is in its upper or normal position in said figures, forcing the sides 5, 5 into their outward positions. The pattern is then put in place in the mold and the sand packed around it. Then the screws 13 and 14 are unloosened if they have been tightened, and the slide 6 is moved in a



lengthwise direction by the handle 18, as a result of which it descends into a lower position as shown in dotted lines in the drawings. The hinged sides 5, 5 thereupon drop from their outer position to inner or depressed positions as shown in dotted lines being drawn inwardly or toward one another by the spring 17 as shown in Figs. 4, 5 and 6, thereby removing said sides 5 and their ornamentations from contact with the sand. The entire pattern can then be withdrawn or removed in the usual way, and the mold will not be destroyed or injured by the projecting portions of the ornamentations.

It will be understood that changes and modifications can be made without departing from the spirit of the invention.

What I claim is:—

1. A post pattern consisting of a longitudinal half of the post cut between diagonal corners and having inwardly movable sides, and means whereby the same can be moved inwardly while the pattern is in the mold.

2. A post pattern consisting of a longitudinal half of a post cut along a plane extending between opposite corners of the post, the wall portions of said post being hinged so as to swing inwardly, and means whereby said wall portions can be swung inwardly while the pattern is in the mold.

3. A post pattern, comprising a diagonally cut longitudinal half of a post having hinged walls, a slide in said post, and inclines where-

by said slide moves laterally to swing said side walls in and out.

4. A post pattern comprising a diagonally cut longitudinal half of a post having hinged side portions, a slide longitudinally movable within said pattern, inclines on the slide for moving the same laterally so as to swing the sides of the pattern in and out, and spring means tending to swing the sides toward each other.

5. A post pattern comprising a casing in the form of a diagonally cut longitudinal half of a post, said casing having side walls hinged along adjacent edges, and also having cross pieces or bridges a coil spring connected with said side walls and tending to swing the same toward one another across the pieces or bridges on said casing, a longitudinally disposed slide within the casing mounted on said bridges, said slide having inclines whereby it is shifted laterally when moved longitudinally and being arranged to swing the side portions of the casing in and out by its lateral shifting, and a handle 18 by which the slide can be engaged and shifted.

In witness whereof, I hereunto subscribe my name this 30th day of January, A. D. 1907.

KNUTE NELSON.

Witnesses:

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