

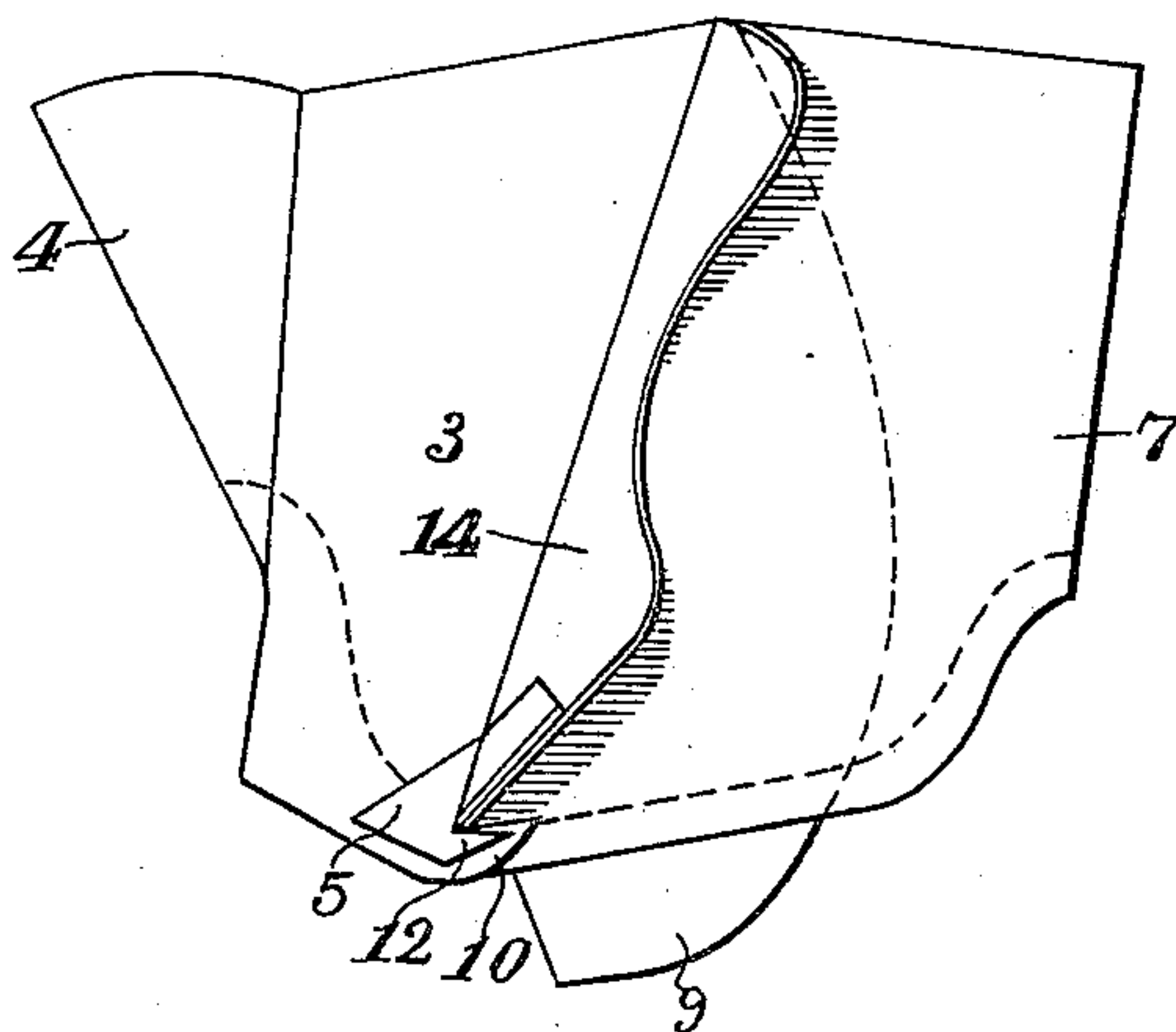
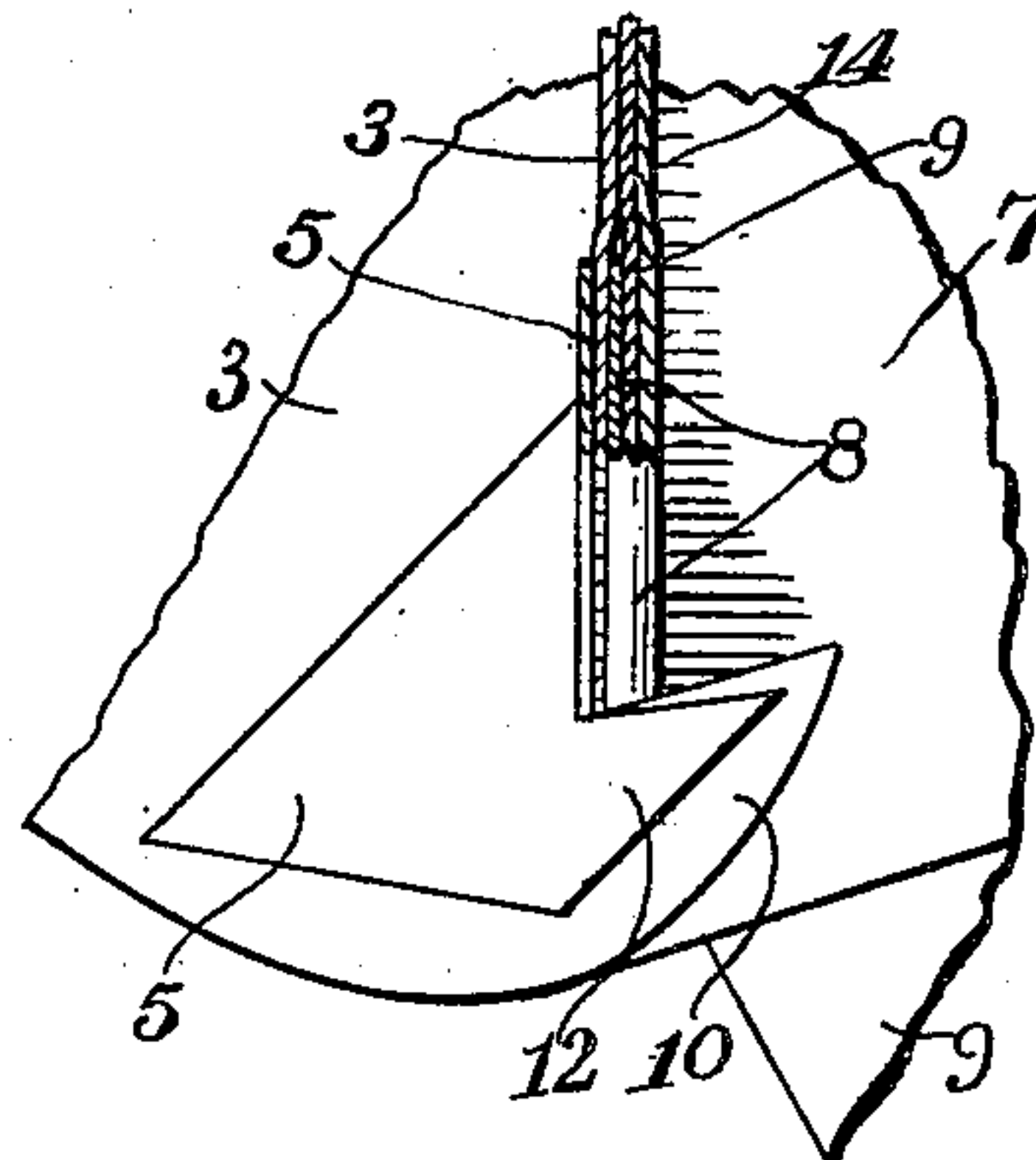
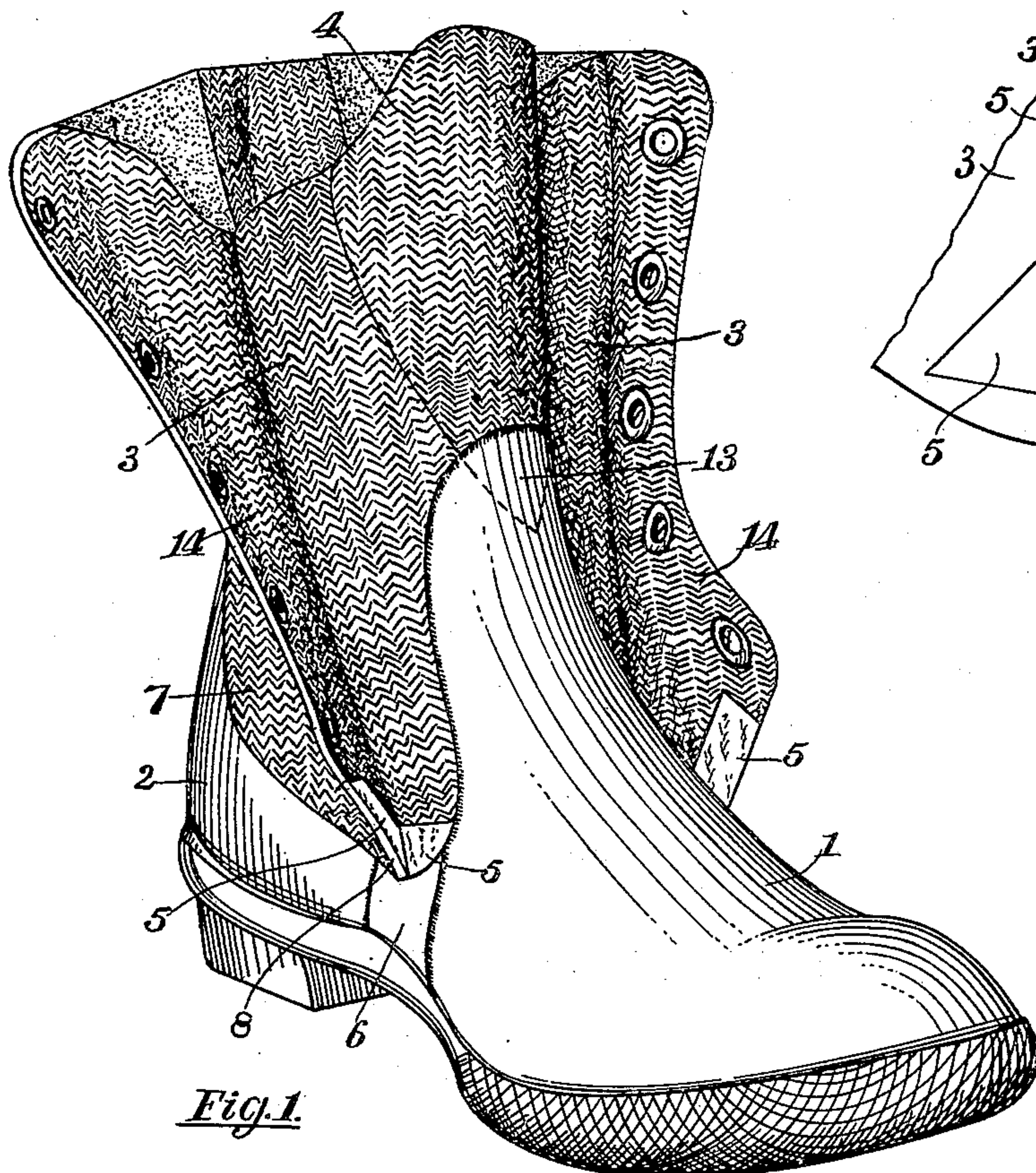
No. 886,716.

P. G. MAYHEW.
SHOE.

PATENTED MAY 5, 1908.

APPLICATION FILED JUNE 25, 1907.

2 SHEETS—SHEET 1.



Witnesses
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2 SHEETS—SHEET 2.

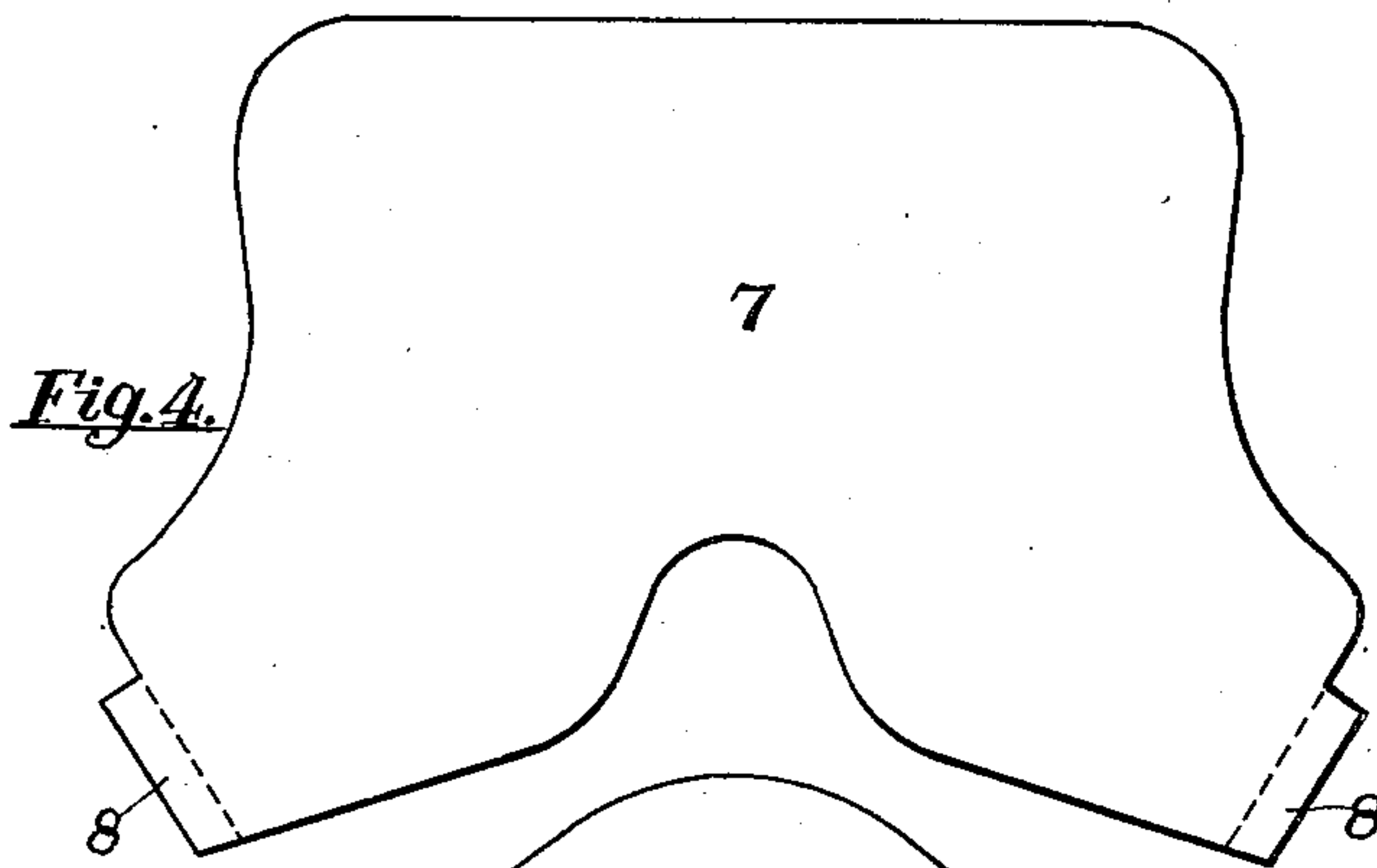


Fig. 5.

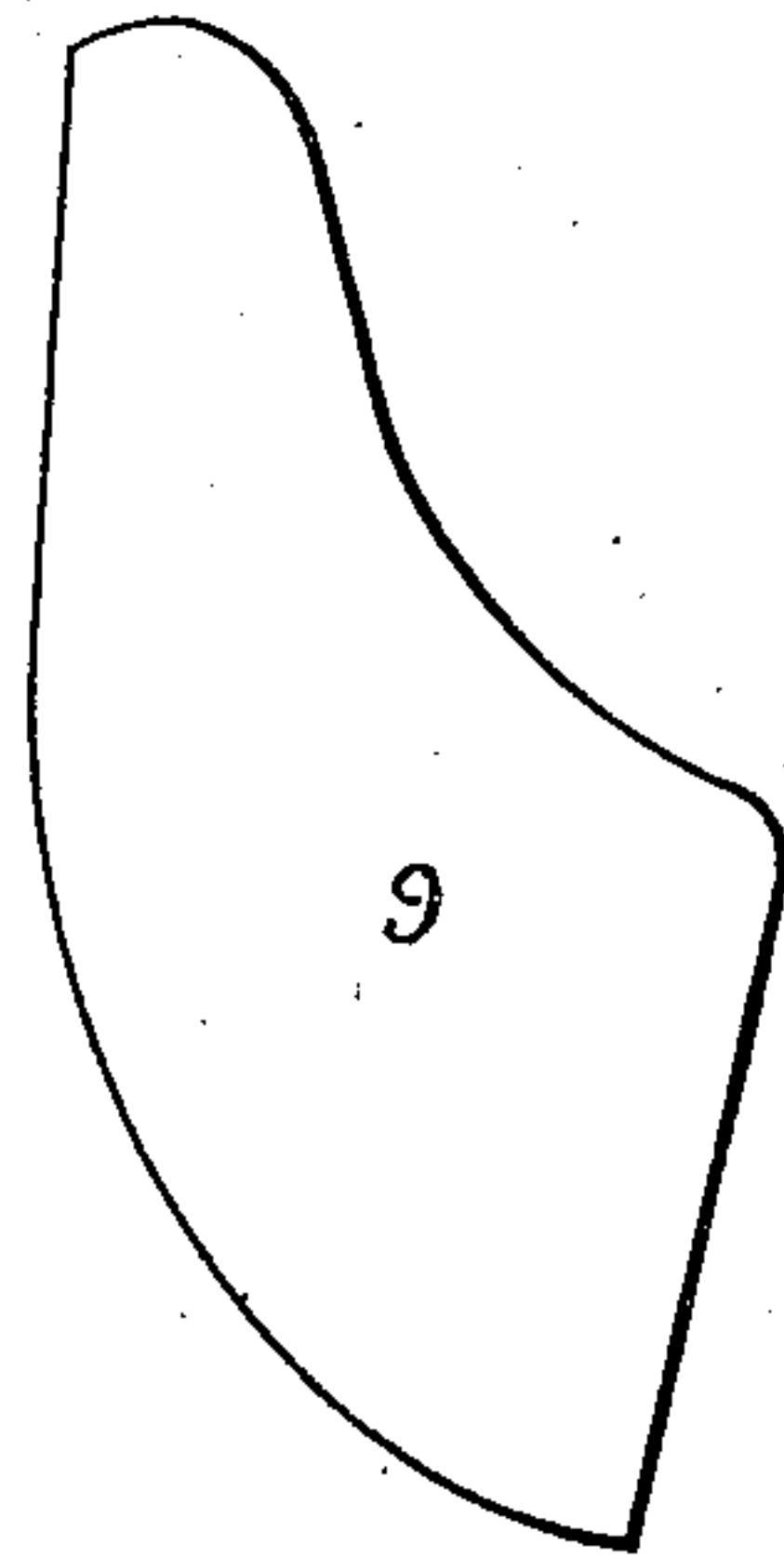
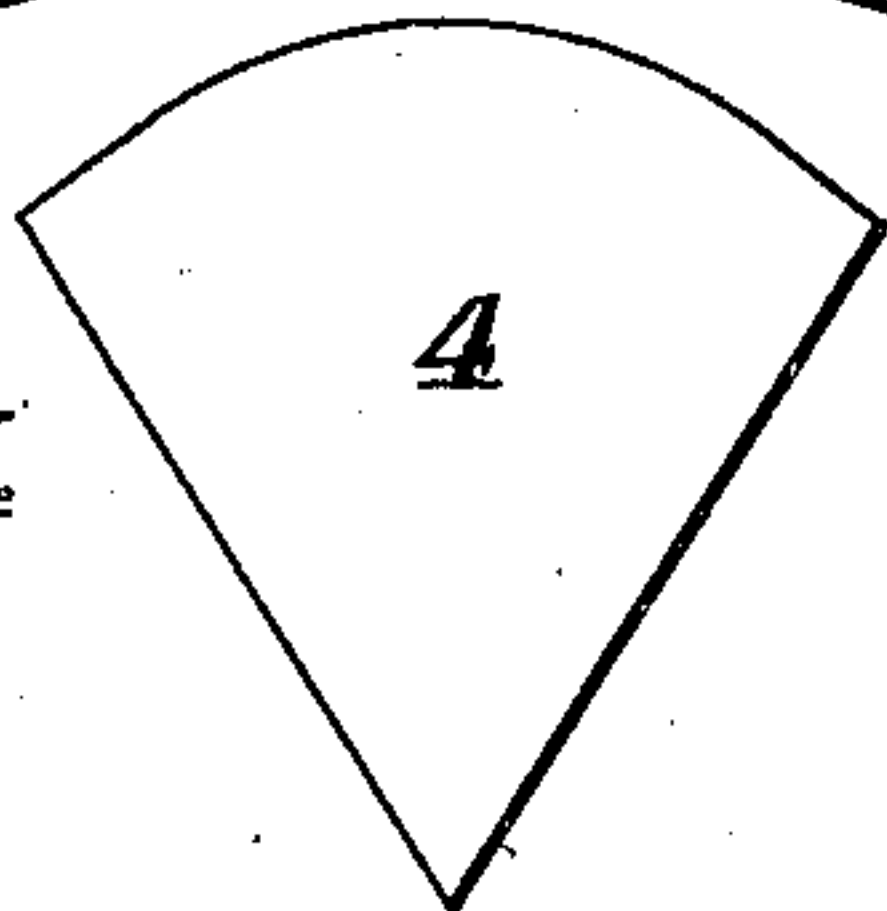


Fig. 8.

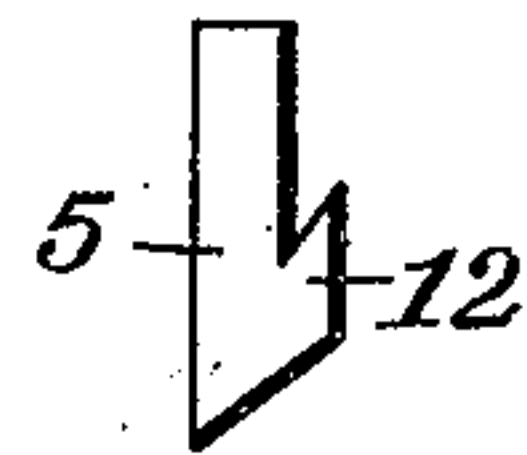
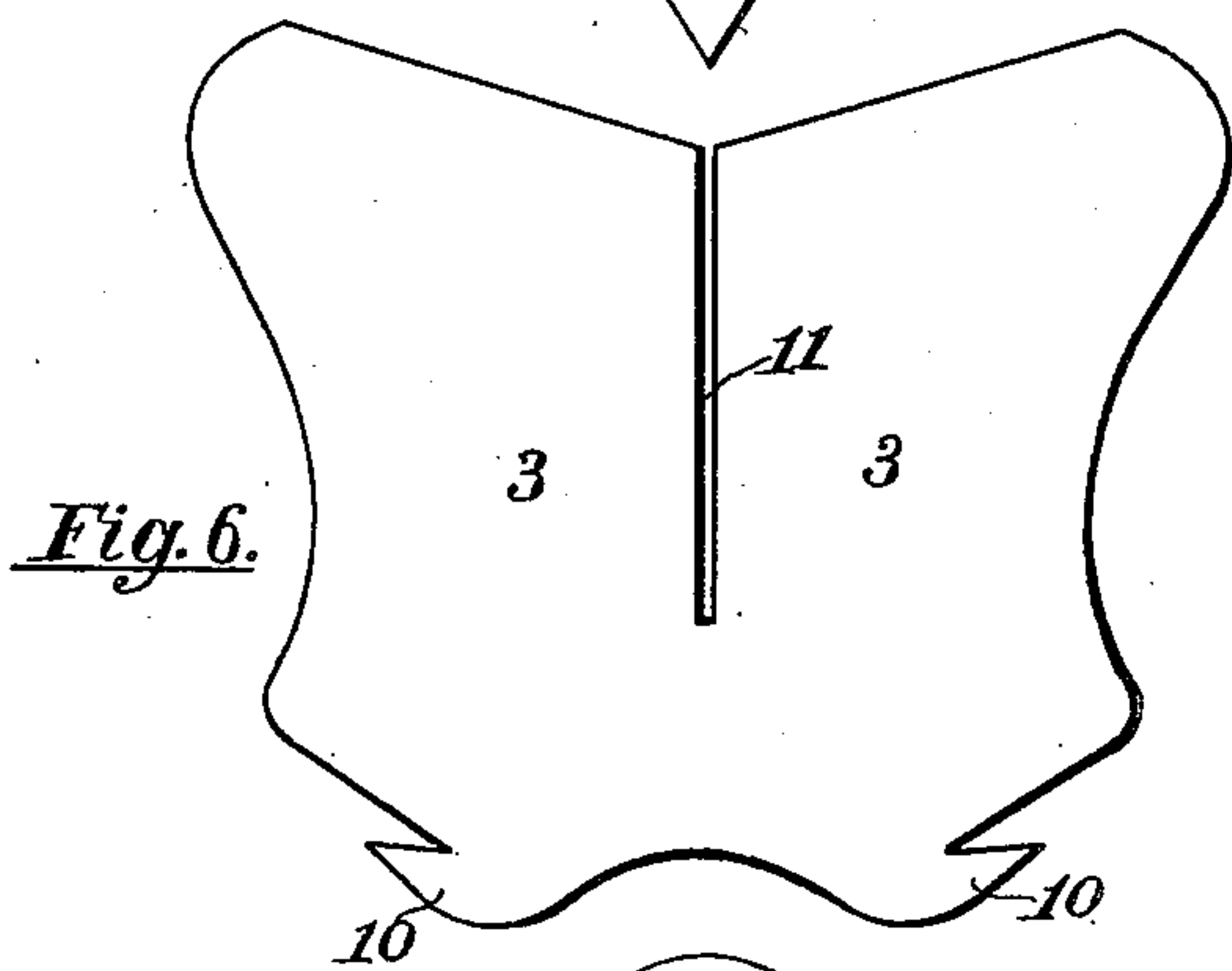


Fig. 9.

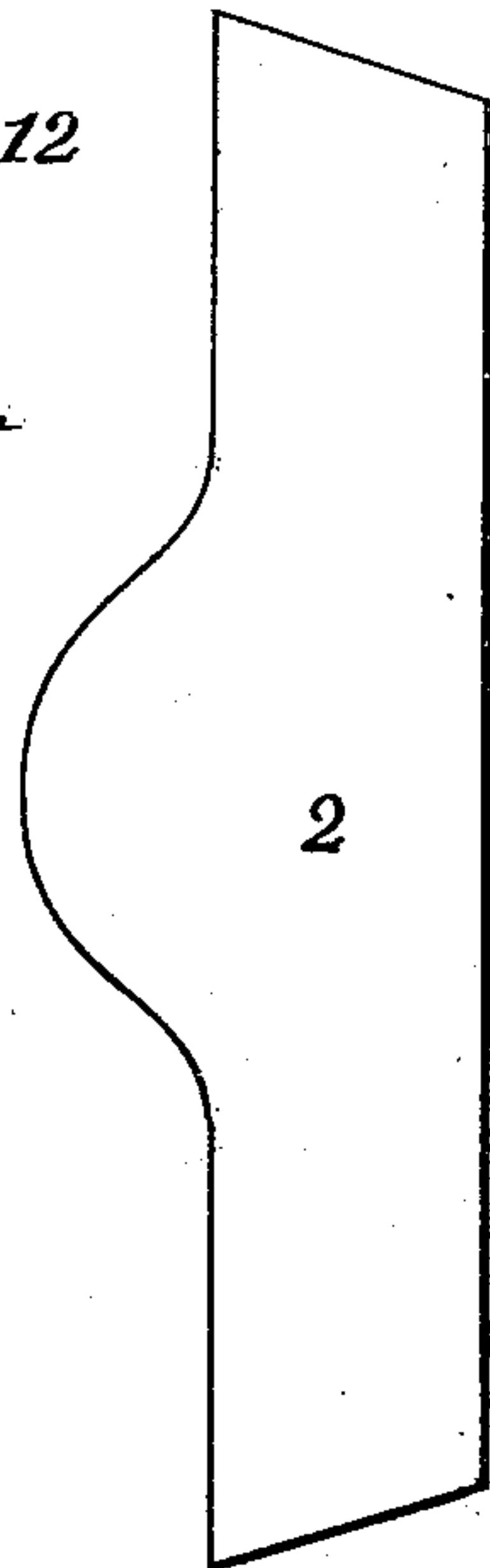
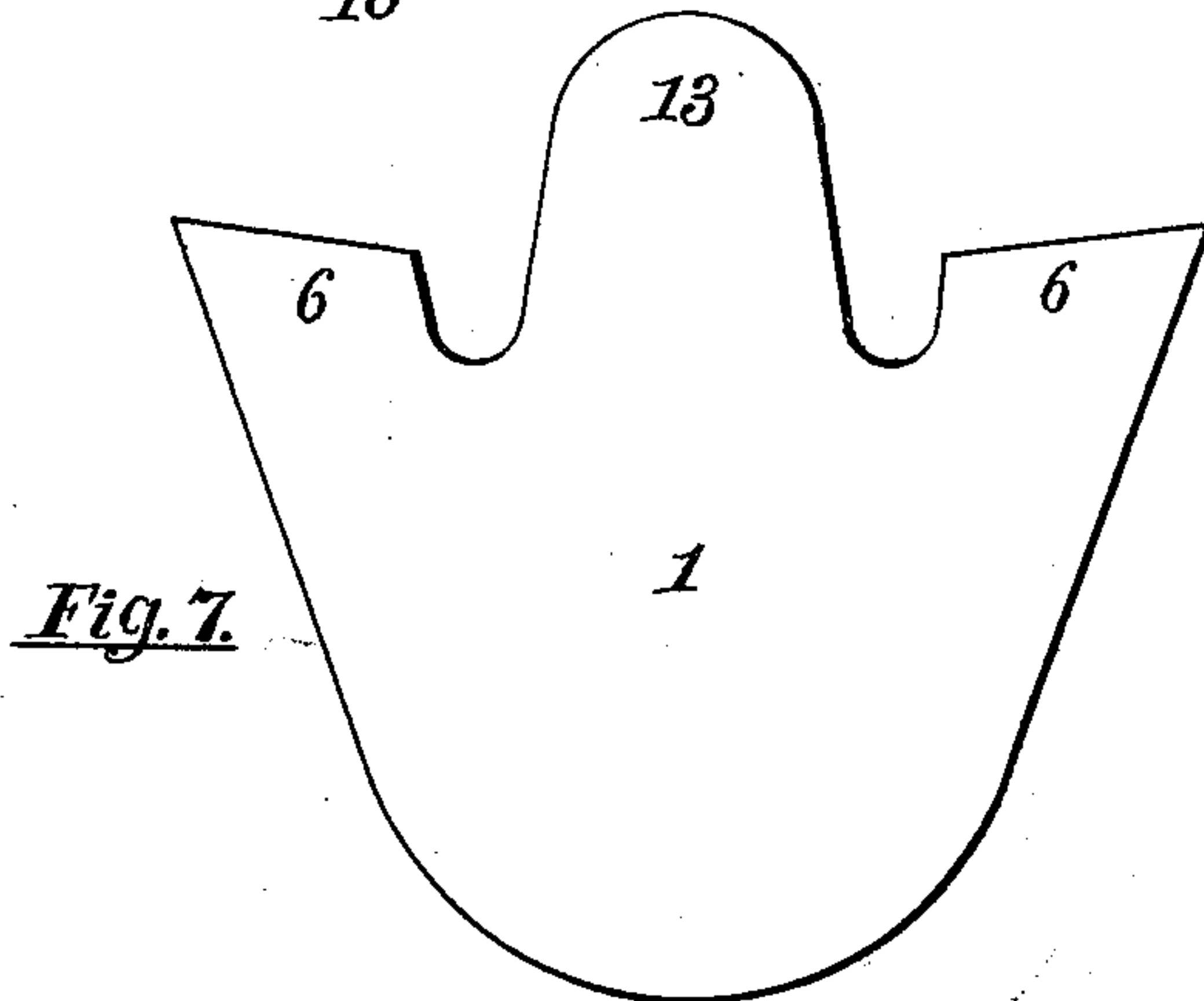


Fig. 10.

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UNITED STATES PATENT OFFICE.

PERCY G. MAYHEW, OF GRAND RAPIDS, MICHIGAN.

SHOE.

No. 886,716.

Specification of Letters Patent.

Patented May 5, 1908.

Application filed June 25, 1907. Serial No. 380,704.

To all whom it may concern:

Be it known that I, PERCY G. MAYHEW, a citizen of the United States of America, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Shoes; and I do hereby 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.

My invention relates to improvements in shoes, and more particularly to water proof shoes; and its object is to provide the same with various new and useful features hereinafter more fully described and particularly pointed out in the claims. Heretofore in this class of shoes it has been found difficult to make some of the joints in the same strong enough and tight enough so that they would be water proof and durable.

My invention consists essentially in the combination and arrangement whereby these defects are remedied, and in various novel features of construction and arrangement as will more fully appear by reference to the accompanying drawings, in which:

Figure 1 is a perspective of a shoe embodying my invention; Fig. 2 an enlarged detail of the lower end of one of the flies of the same and parts adjacent thereto; Fig. 3 a detail showing the arrangement of a portion of the structure; Fig. 4 a diagram on a reduced scale of the portion forming the quarters of the shoe; Fig. 5 a diagram of the inset segment; Fig. 6 a diagram of the upper vamp; Fig. 7 a diagram of the lower vamp; Fig. 8 a diagram of the quarter stays; Fig. 9 a diagram of one of the small stays applied to the flies; and Fig. 10 a diagram of the counter.

Like numbers refer to like parts in all of the figures.

The lower vamp 1 is extended upward in the middle upper portion as at 13 to overlap and securely fasten the joint between the apex of the segment 4 and the upper vamp portion 3, this segment being inserted in a slot or opening 11 in the said vamp whereby the upper portion of the vamp is properly enlarged. This vamp extension 13 also serves to thicken the shoe at the front of the ankle and protect the wearer from the pressure of the lacing for the flies 14. The vamp 1 is also extended at each side as at 6 and overlaps the forward ends of the counter 2 opposite the lower ends

of the flies 14, these overlapping portions thus thickening and strengthening the structure at this point. The upper vamp 3 is made of sufficient width so that in addition to being enlarged by the segment 4, it forms a lining for the flies 14, the outer portion of which flies are formed by the outer margins of the quarter 7, the margins of the upper vamp and the margins of the quarter 7 being correspondingly outlined and secured to each other, the middle portion of the quarter 7 extending across the rear of the shoe above the counter 2 at the rear of the ankle, and when the shoe is laced and the edges of the flies brought close to each other, the counter extends substantially wholly around the ankle and the upper vamp 3 is folded beneath the flies 14. The quarter 7 at each side and also the flies are still further strengthened by inserting therebetween suitable pieces of fabric 9 as quarter stays, which stays also extend downward within the forward portions of the counter 2 as indicated in Fig. 2 and Fig. 3. To secure a strong and water-tight joint at the lower end of the flies, the quarter 7 has extension 8 folded over the edges of the quarter stay 9 as at 8 in Fig. 2 and inserted between the said stay and the upper vamp 3.

The upper vamp 3 is also provided with spurs 10 which extend around the lower edges of the flies and beneath the overlapping portion of the lower vamp 1 and the counter 2. To further strengthen the structure at this point, I also prefer to use a small stay piece 5 secured to the inner surface of the fly and extending across the fold of the upper vamp and beneath the upper edge of the lower vamp. This stay also being provided with a spur 12 extending around the edge of the lower end of the fly and beneath the overlapping portion of the lower vamp and counter.

I am thus able to make a very strong and secure fastening at the lower end of the fly 14 and segment 4, where the structure heretofore has been found weak and liable to break and leak. It will be understood that these various parts are secured to each other preferably by cementing and for further security may also be sewed if preferred.

What I claim is:

1. A shoe comprising a lower vamp having an upwardly extended middle portion, an upper vamp extending beneath said middle portion and vertically divided, a segment

piece inserted in the division of the upper vamp and with its apex beneath the middle portion of the lower vamp.

2. A shoe comprising a lower vamp having
5 an upwardly extended middle portion and rearwardly extended side portions, a counter having its ends overlapped by the side portion of the lower vamp and secured thereto, an upper vamp secured to the middle portion
10 of the lower vamp and extending oppositely therefrom, a quarter piece secured at its sides to the upper vamp and forming therewith inwardly folding flies, and stay pieces attached to the flies and extending beneath
15 the lower vamp and also having spurs extending opposite the lower edges of the flies.

3. A shoe comprising a lower vamp, an upper vamp attached thereto and having oppositely extended side portions, a quarter
20 piece having its side edges attached to the upper vamp and forming therewith inwardly folding flies, quarter stays between the upper vamp and quarter piece, extensions on the quarter piece and folded over the quarter
25 stays, and spurs on the upper vamp extending opposite the edge of the flies and beneath the lower vamp.

4. In a shoe, the combination of a lower vamp having an upwardly extended middle
30 portion and rearwardly extended side portions, an upper vamp attached to the middle portion of the lower vamp and extending oppositely therefrom, a segment inserted in the upper vamp and extending beneath the
35 lower vamp, a quarter piece attached at its sides to the upper vamp and forming therewith flies, and also attached at the bottom to the counter, and a counter having its ends attached to the lower vamp.

5. In a shoe, the combination of a lower 40 vamp having an upwardly extended middle portion and rearwardly extended side portions, a counter attached at its ends to the side portions of the lower vamp, an upper vamp attached to the middle portion of the 45 lower vamp and oppositely extended therefrom, a quarter piece attached at its side margins to the margins of the upper vamp and forming therewith inwardly folding flies and also attached to the counter at the bot- 50 tom, quarter stays, margin extensions on the quarter and folded over the edge of the quarter stays, spurs on the upper vamp and extending beneath the lower vamp and stay pieces attached to the flies and also extending 55 beneath the lower vamp.

6. A shoe comprising a lower vamp, an upper vamp attached to said lower vamp at the lower side, and having its side portions foldable inward, a quarter having its margins 60 secured to the margins of the upper vamp and also having folded marginal extensions near the lower corners.

7. A shoe comprising a lower vamp, an upper vamp attached thereto, a quarter hav- 65 ing its margins attached to the margins of the upper vamp and forming therewith inwardly foldable flies, spurs at the lower end of the upper vamp and extending beneath the edge of the quarter and beneath the upper vamp, 70 and folded edges on the lower part of the outer edges of the quarter.

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

PERCY G. MAYHEW.

Witnesses:

PALMER A. JONES,
L. V. MOULTON.