

Nb. 777,315.

PATENTED DEC. 13, 1904.

C. B. TAYLOR.  
SOFT TREAD HORSESHOE.  
APPLICATION FILED APR. 12, 1901.

NO MODEL.

Fig - 1 -

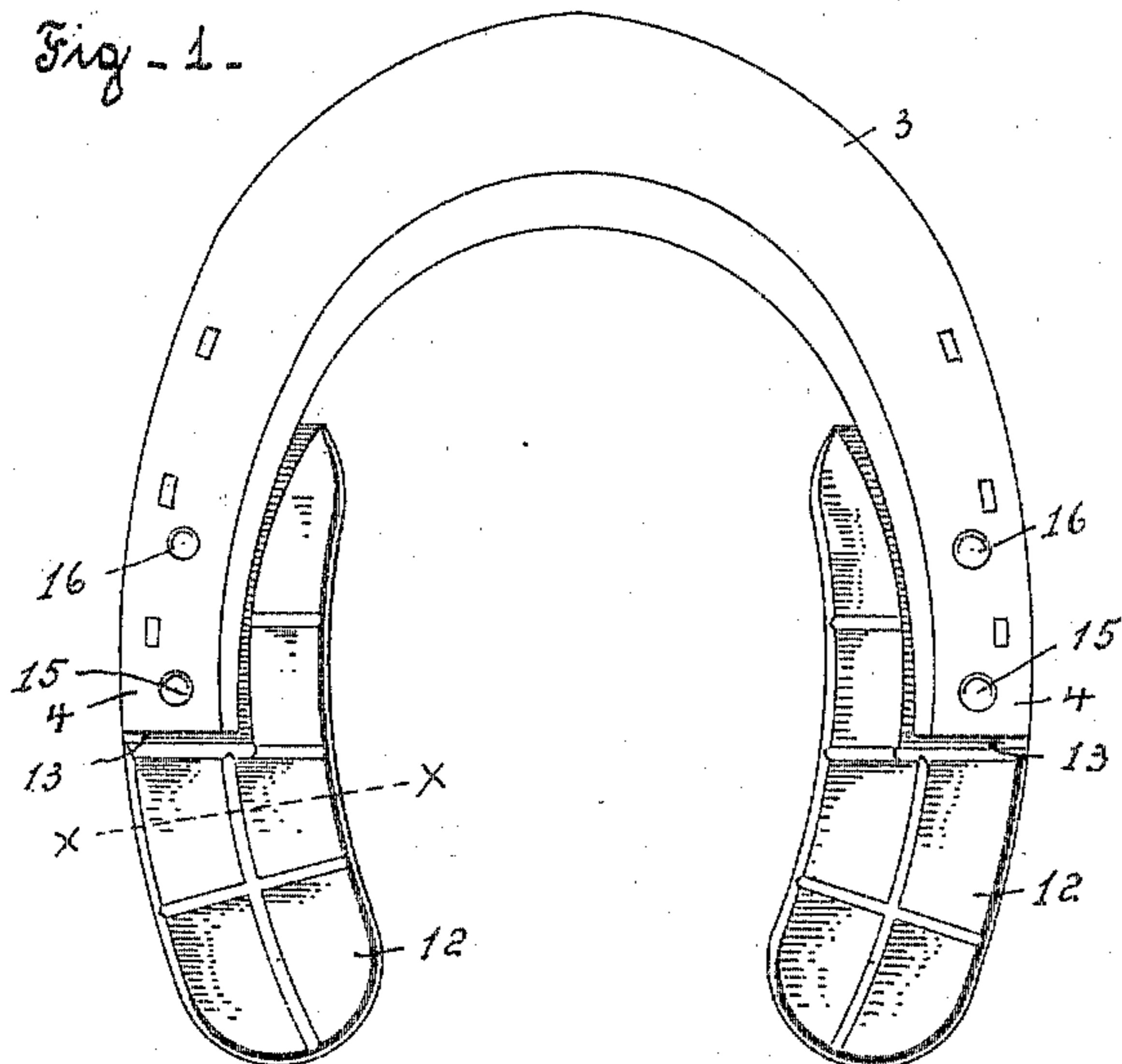


Fig - 2

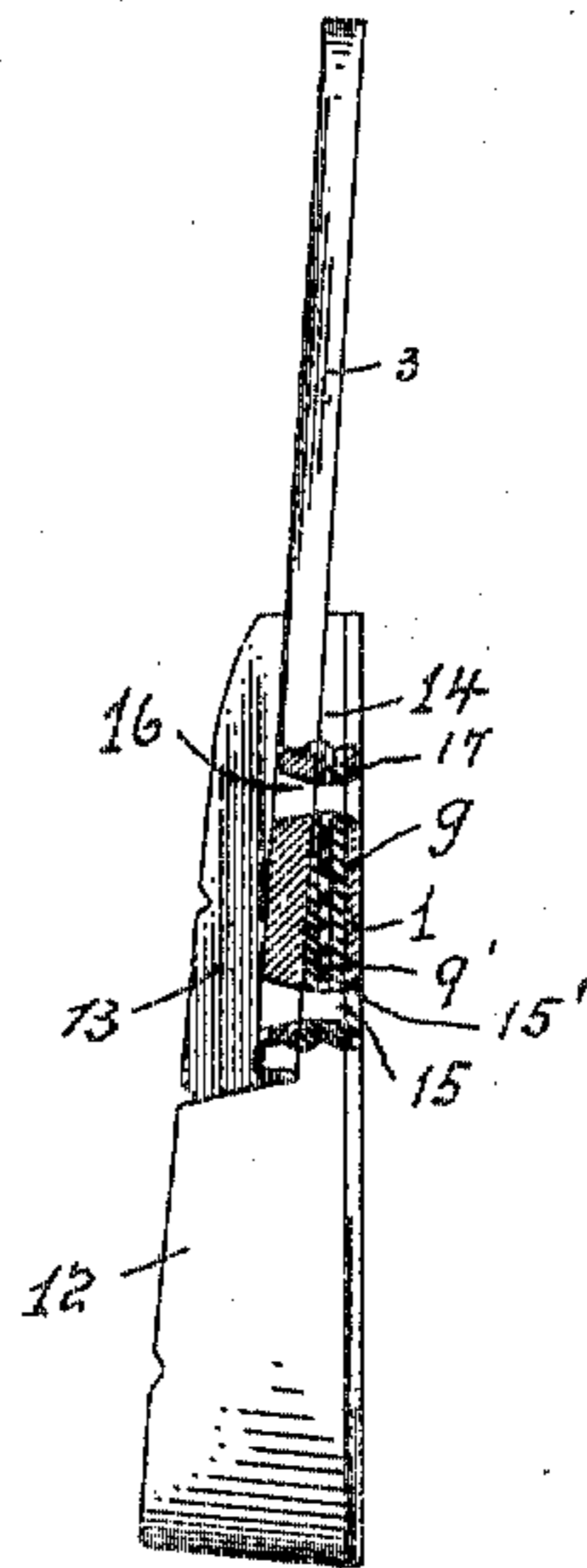


Fig - 5 -

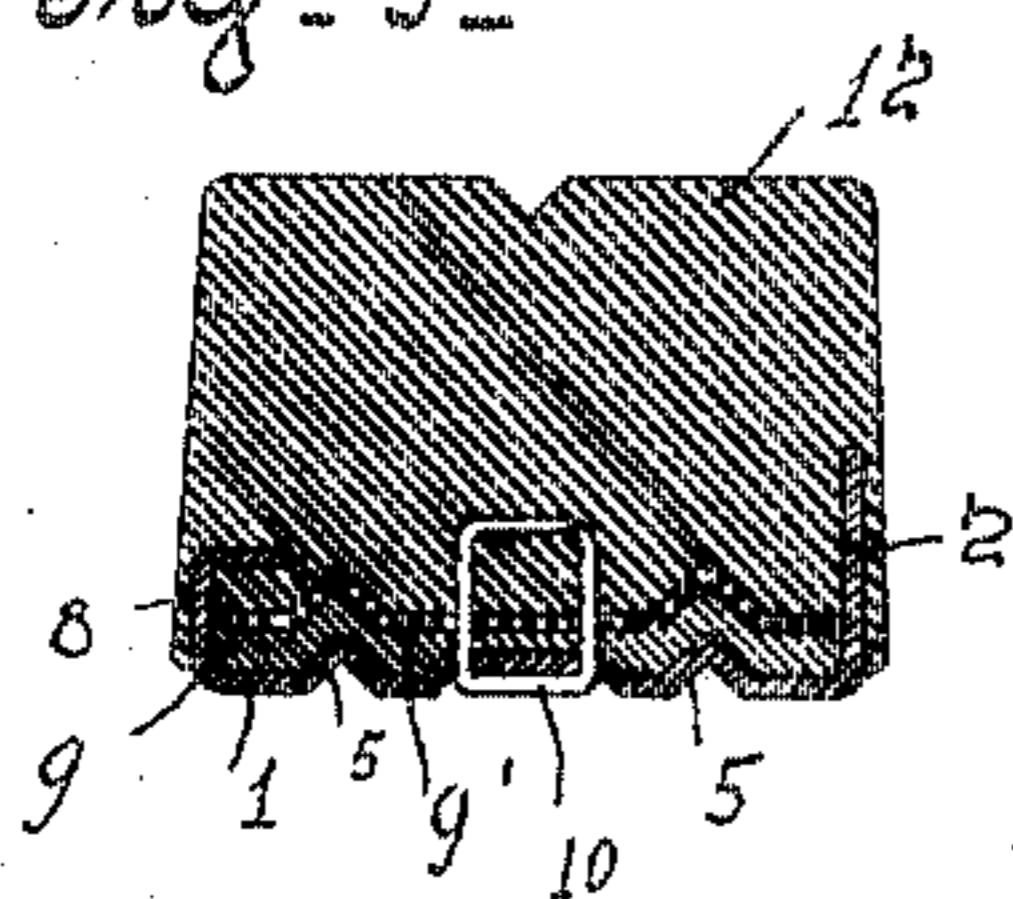


Fig - 4 -

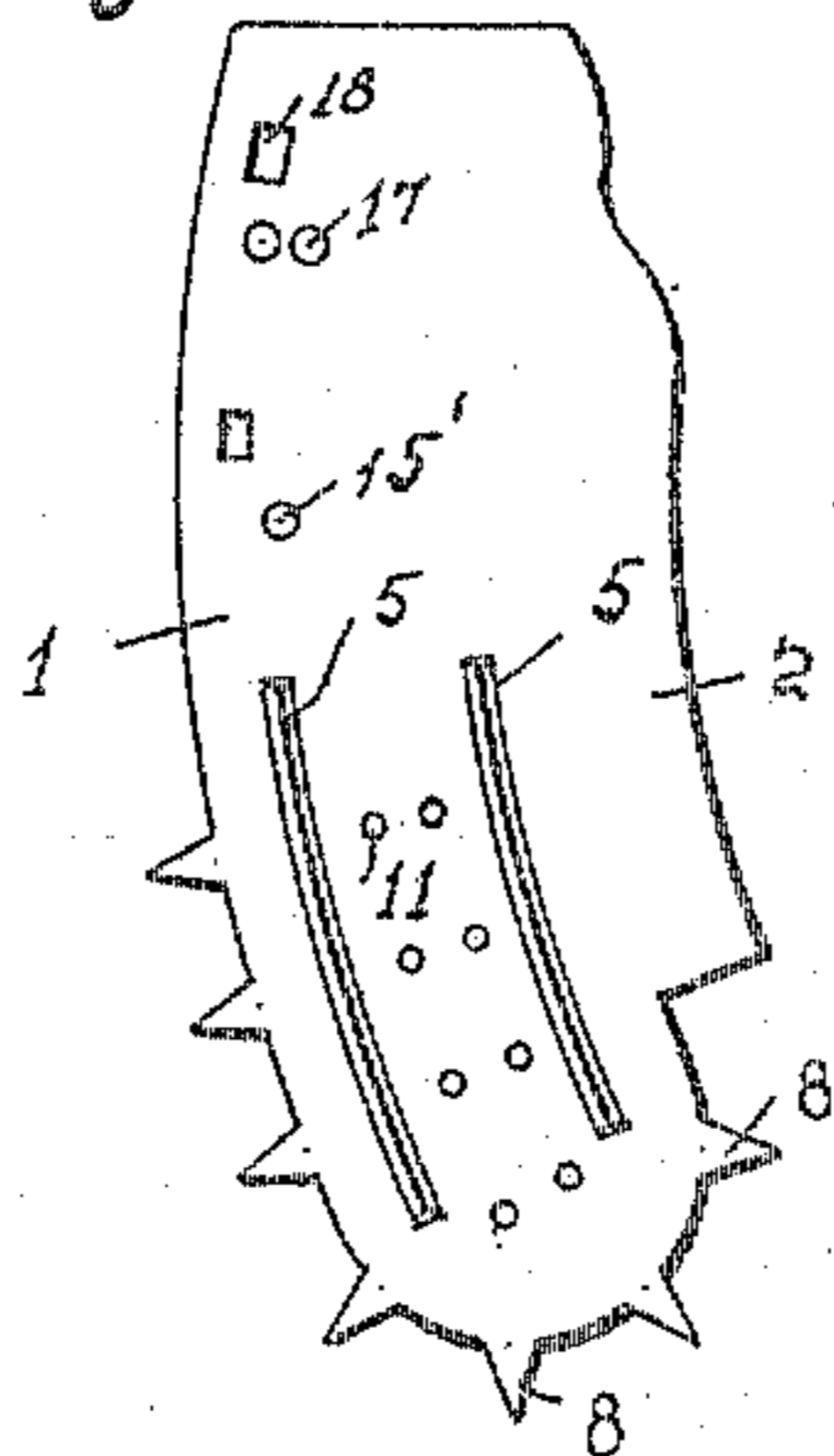


Fig - 6 -

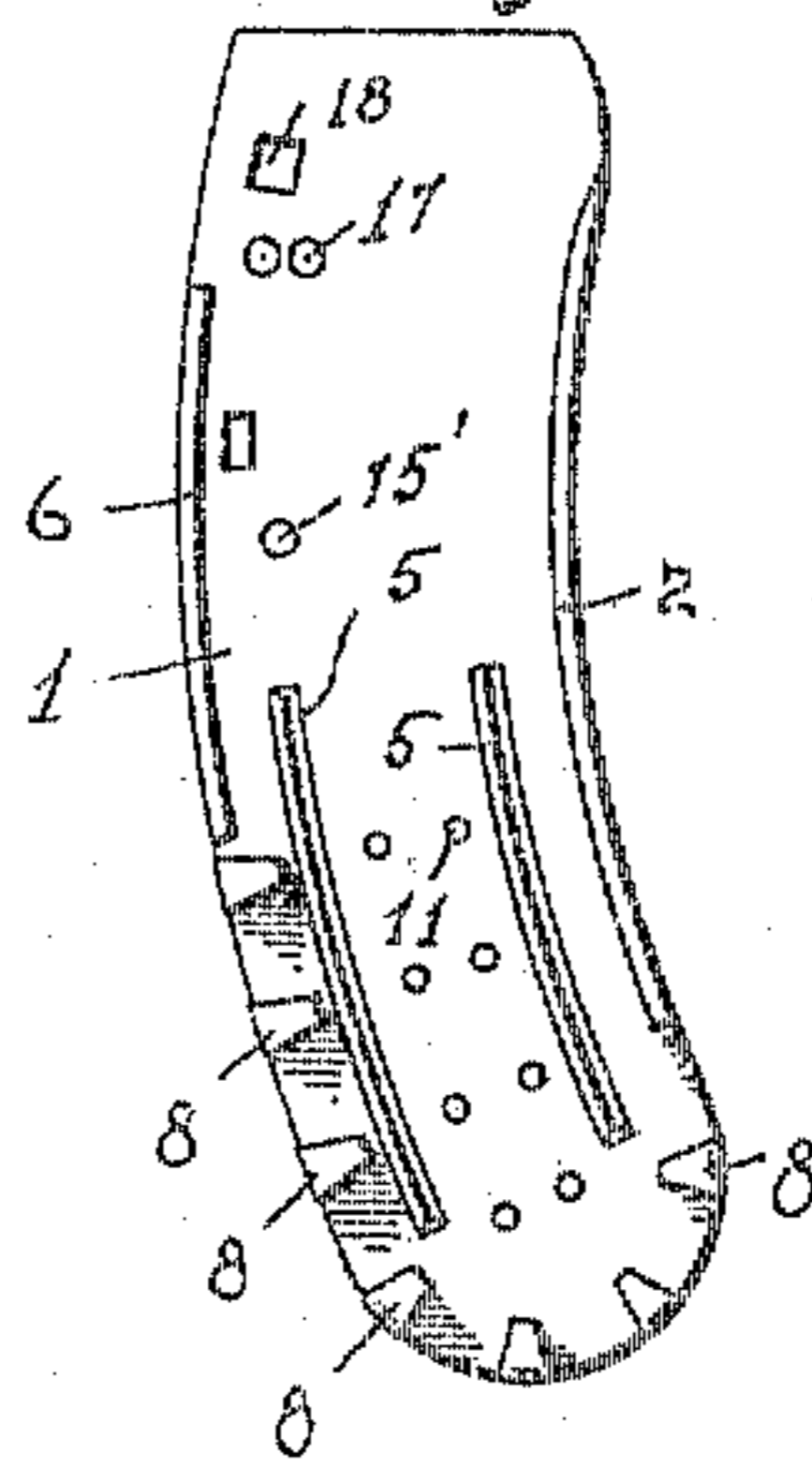


Fig - 3 -

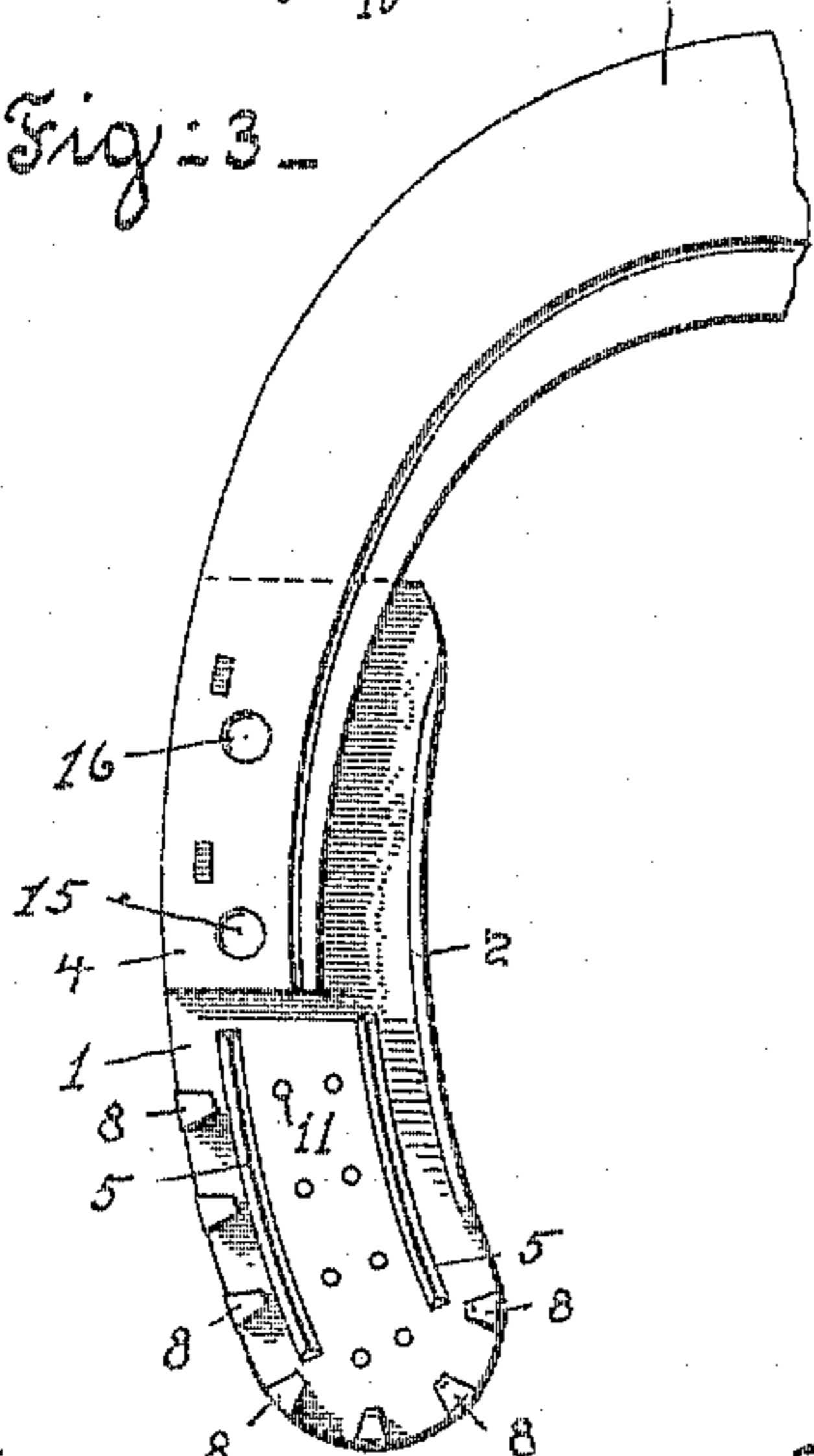
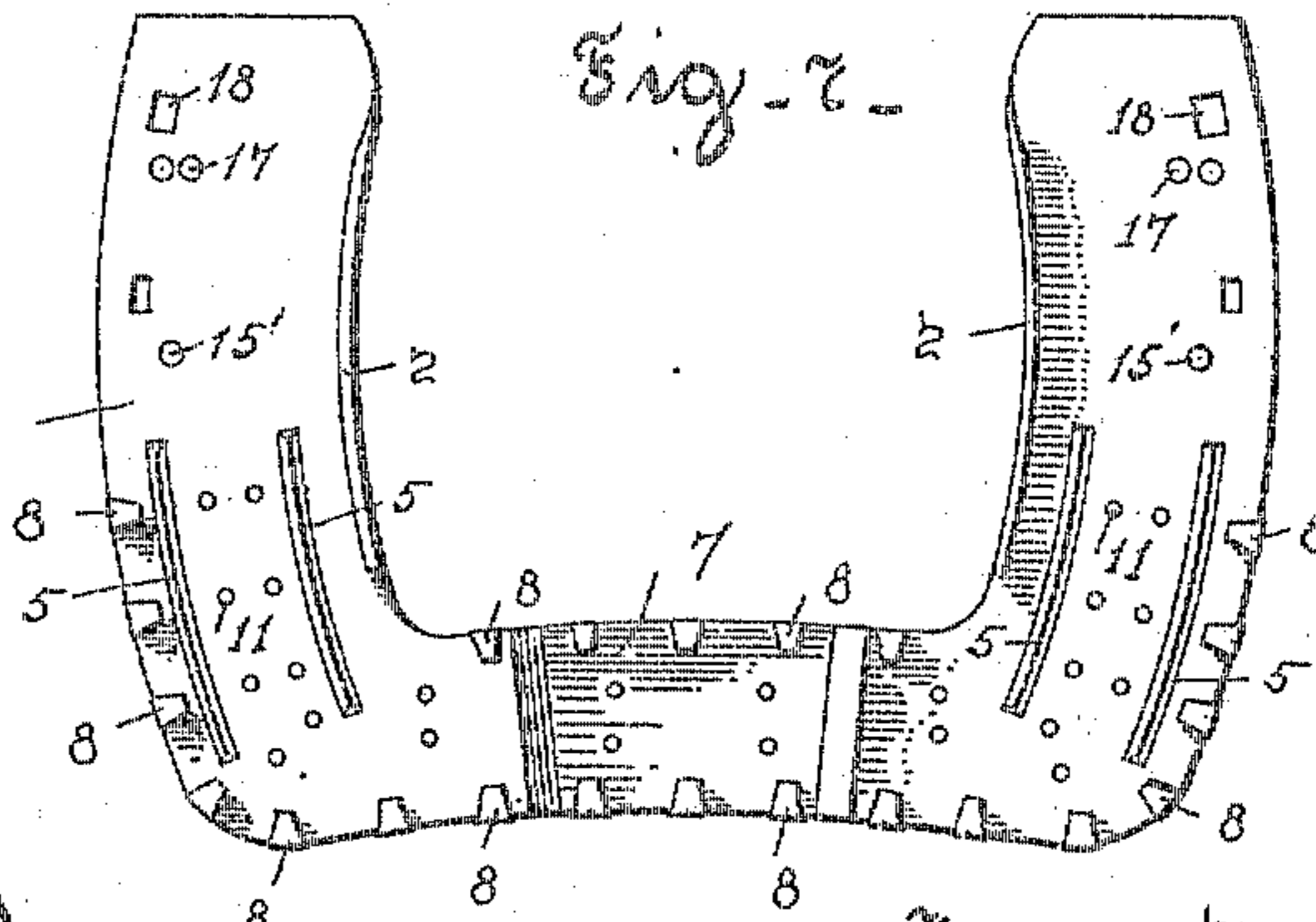


Fig - 7 -



Witnesses:  
C. B. Taylor  
James M. Keen

Inventor -  
C. B. Taylor

# UNITED STATES PATENT OFFICE.

CLEVELAND B. TAYLOR, OF TOLEDO, OHIO.

## SOFT-TREAD HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 777,315, dated December 13, 1904.

Application filed April 12, 1901. Serial No. 55,513. (No model.)

*To all whom it may concern:*

Be it known that I, CLEVELAND B. TAYLOR, of Toledo, county of Lucas, and State of Ohio, have invented new and useful Improvements in Soft-Tread Horseshoes; 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form part of this specification.

My invention relates to horseshoes, and has for its object to provide a heel-pad that when secured to the foot of a horse will stay in position under all conditions, and is adapted to form an open or a complete bar-shoe of inexpensive manufacture and readily fitted to all feet.

A further object is to efficiently combine the cushion with a metallic base or other rigid packing material and truss the base in a manner that light metals may be used advantageously for such purpose to form an open or closed bar-shoe when assembled with the metallic shoe-tip.

The objects of my invention are accomplished by providing a rigid base, preferably of metal, and providing the base with one or more trusses at a right angle to the body portion and forming upon the rim of the base a plurality of peripheral clenching-hooks adapted to be embedded in and secure the edges of the soft tread-cushion, which comprises a sheet of rubber laid upon one side of base and a foraminous fabric of metal or cloth placed on top of the sheet of rubber and secure the base, rubber, and fabric by sewing with wire or connecting with staples and combining with the base thus prepared a body of rubber by vulcanization.

In the drawings, Figure 1 is a view of the bottom of a horseshoe, showing the metallic shoe-tip and the heel-pads assembled and ready for securing to the hoof. Fig. 2 is a side elevation of the same. Fig. 3 is a partial view of the bottom of the metallic shoe-tip with the resilient cushion removed from the metallic base to show the trussing. Fig. 4 is a plan view of a blank as prepared for a metallic

base. Fig. 5 is a section on the line *x x*, Fig. 1, showing the manner of securing the cushion to the metallic base. Fig. 6 is a modification of the bases, showing a double form of trussing; and Fig. 7 shows a rigid base for a heel-pad trussed and connected by a transverse web.

In carrying out my invention, 1 designates a rigid base or foundation, preferably formed of sheet metal, and in order to combine lightness with strength and rigidity each base is formed with a portion 2 bent at right angles to the body portion of the base. The trusses thus formed by angling a portion of the rigid base are of a length to truss the base from the toe of the pad to a point located toward the rear thereof, and the base is of a length that the metallic shoe-tip 3 will overlap the base of the pad and the ends 4 of the tips will terminate about midway of the length of the trusses, and by reason of trussing the base in this manner and by providing one or more centrally-disposed V-shaped struck-up truss portions 5 in the body of the foundation a light sheet metal can be advantageously used for the purpose described in the foregoing. The base may also be trussed, as shown in the modification Fig. 6, by bending an outer opposite portion 6 at right angles to the body portion, or the pair of heel-cushions for one hoof may be combined in the form of a solid heel-pad by connecting the right and left sides of a shoe by a connecting-web 7, which is depressed to relieve pressure on the frog of the hoof.

8 designates a plurality of pointed projections formed peripherally along the sides of the base for securing the soft tread portion. The soft tread portion of the pad comprises a sheet of rubber 9, which is laid next to the metallic base, and upon this sheet of rubber a foraminous fabric 9', of metal or other material, is placed, after which the pointed projections are clenched to peripherally secure the material. The central portion of the foundation is also secured by means of staples 10, which are inserted through orifices 11, formed in the metallic base, and which staples are let in flush and clenched over the foraminous fabric. After thus preparing the metallic

base the same is placed into a suitable mold and packed with rubber to form the cushion 12 and exposed to a vulcanizing temperature to fuse the sheet of rubber, with the other 5 rubber, into a homogeneous mass having embedded therein a foraminous fabric of metal and other material, which is secured to the metallic base by means of the peripherally-disposed hooks and the central staples or other 10 suitable means.

A recess 13 is formed in each of the rubber cushions to receive the metallic shoe-tip, and the recesses are of a width to allow for adjustable connection of the pads to the tip. 15 The rubber cushion is extended under the overlapping tip in the form of a wedge-like extension 14. The pads are secured to the tip by means of countersunk rivets 15, inserted through orifices 15', which are located 20 in the ends of the tip, and like rivets 16, located toward the toe of the pads. For adjusting the pads a plurality of rivet-holes 17 are formed in the foundation, whereby the rivets 16 may be inserted into either of the 25 holes to throw the heel of the pad in or out, as desired. The nail-holes 18 of the foundation are also transversely enlarged to allow for such shifting of the pads.

It will be seen from the foregoing that I 30 have produced a heel-pad of a light and durable construction, and when the rigid base of the pad is riveted to the metallic tip an open horseshoe is formed provided with heel-pads, and when secured to the foot the shell of the 35 hoof will bear evenly upon the shoe. By reason of the trussed metallic base the displacement of the cushion from the shell to the sole is prevented on all kinds of feet, and the cushion is held to the hoof under all conditions by 40 trussing the rigid base to reinforce the body portion, and the breaking off of the cushions at tip ends is obviated, thereby insuring a pad that will stay on the hoof under all conditions and is readily fitted by the horseshoer. 45 The rivet-orifices through the metallic tip are

formed with a long taper and the rivets are formed with a like head, whereby the tips and rivets may be reduced by the maximum wear and still be rigidly assembled to the pad.

What I claim is—

1. In a horseshoe, a rigid base or foundation composed of metal, a soft tread portion, a foraminous fabric embedded in the soft tread portion, and fastenings for securing the foraminous fabric to the metallic foundation, 55 and a metallic toe-tip.

2. In a horseshoe, a rigid base or foundation, a soft tread portion, a lateral layer of fibrous material embedded therein, and fastening for securing the fibrous material to 60 the rigid base or foundation, and a metallic toe-tip.

3. In a horseshoe, a metallic foundation provided with one or more trusses; a soft tread portion having embedded therein a forami- 65 nous fabric and fastenings adapted to secure the soft tread portion to the foundation by connecting the foundation with the embedded fabric in the cushion.

4. In a horseshoe, a rigid base having por- 70 tions angled to the base adapted to form trusses, peripheral clenching-hooks integral with the base, and central fastenings to secure a resilient cushion, and a metallic toe-tip adjustably secured to the rigid base. 75

5. In a horseshoe, a metallic toe-tip, heel-pads secured to the ends of the tip and comprising rigid base-plates provided with lengthwise-disposed trusses and peripherally-spaced clenching-hooks, and centrally-arranged fas- 80 tenings adapted to secure a soft tread portion and form an open horseshoe when assembled with the tip.

In testimony that I claim the foregoing as my own I hereto affix my signature in presence 85 of two witnesses.

CLEVELAND B. TAYLOR.

Witnesses:

CARRIE THAYER TAYLOR,  
SAMUEL M. HELLER.